

Half Yearly Compliance Report**2026****01 Jun(01 Oct - 31 Mar)****Acknowledgement**

Proposal Name	Production of Induction Furnace (8x15 Ton) (M.S. Billet/Steel Ingots), Capacity 3,96,000 Ton/Year, Rolling Mill (2x500 Ton/Day) (TMT Bars / Wire Rods / Angle / Channel / Patra and Other Re Rolled Product), Capacity 30,000 Ton/Year 3,60,000 Ton/Year, New Coal Gasifier (Producer Gas), Capacity 19,800 normal cubic meter per hour by M/s Shambhavi Ispat Private Limited located at Village Gerwani, Tehsil and District Raigarh, Chhattisgarh		
Name of Entity / Corporate Office	M/s Shambhavi Ispat Private Limited		
Village(s)	N/A		
District	RAIGARH		
Proposal No.	SIA/CG/IND/74314/2020	Category	Industrial Projects - 1
Plot / Survey / Khasra No.	N/A	Sub-District	N/A
State	CHHATTISGARH	Entity's PAN	*****0241F
MoEF File No.	OL/EC/IND/RAIGARH/1167	Entity name as per PAN	SHAMBHAVI ISPAT PRIVATE LIMITED

Compliance Reporting Details

Reporting Year	2026
Remarks (if any)	EC Compliance Report (October 2025 - March 2026) by M/s Shambhavi Ispat Private Limited located at Village Gerwani, Tehsil and District Raigarh, Chhattisgarh.
Reporting Period	01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office	M/s Shambhavi Ispat Private Limited	
	Project Area as per EC Granted	Actual Project Area in Possession
Private	10.417	10.417
Revenue Land	0	0
Forest	0	0
Others	N/A	N/A
Total	10.417	10.417

Others Area						
Sr. no				Other Name	Area Granted	Area Actual
Production Capacity						
Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Induction Furnace (MS Billets)	Tons per Annum (TPA)	31/01/2027	396000	38805.98	198000
2	Rolling Mill (TMT Bar)	Tons per Annum (TPA)	31/01/2027	360000	83375.210	195000
Conditions						
Visit Remarks						
Last Site Visit Report Date:			N/A			
Additional Remarks:						
Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.						

Your (**Half Yearly Compliance Report**) has been **Submitted** with following details

Proposal No	SIA/CG/IND/74314/2020
Compliance ID	1214950818
Compliance Number(For Tracking)	EC/M/COMPLIANCE/1214950818/2026
Reporting Year	2026
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	04-06-2026
RO/SRO Name	Shri Senthil Kumar Sampath
RO/SRO Email	agmu156@ifs.nic.in
State	CHHATTISGARH
RO/SRO Office Address	Integrated Regional Offices, Raipur

Note:- SMS and E-Mail has been sent to Shri Senthil Kumar Sampath, CHHATTISGARH with Notification to Project Proponent.

EC COMPLIANCE REPORT

(October 2025 – March 2026)

Of

Proposed Induction Furnace (8x15 Ton)

(M.S. Billet/Steel Ingots)

Capacity – 3,96,000 Ton/Year

**Rolling Mill (2x500 Ton/Day) (TMT Bars / Wire Rods
/ Angle / Channel / Patra & Other Re-Rolled Product)**

Capacity – 30,000 Ton/Year – 3,60,000 Ton/Year

New Coal Gasifier (Producer Gas)

Capacity – 19,800 normal cubic meter per hour

Located At

Khasra No. 31/1, 31/2, 32/1, 32/2, 32/3

Village – Gerwani,

Tehsil&District–Raigarh,

State- Chhattisgarh

Project Proponent:

M/s. Sambhavi Ispat Private Limited

List of Annexures

Annexure	Particulars
I.	COPY OF CTE AND CTO
II.	COPY OF CGWA NOC
III.	DETAILS OF CEMS AND CAAQMS
IV.	ENVIRONMENTAL MONITORING TEST REPORTS
V.	PHOTOGRAPH OF FUGITIVE EMISSION MEASURES
VI.	PHOTOGRAPH OF CCTV CEMARA
VII.	PHOTOGRAPH OF GARLAND DRAIN
VIII.	PHOTOGRAPHS OF WORKERS WEARING PPE
IX.	OCCUPATIONAL HEALTH SURVEILLANCE RECORDS (FORM-21)
X.	PHOTOGRAPH OF LED LIGHT
XI.	PHOTOGRAPH OF FLY ASH BRICKS UTILIZATION
XII.	PHOTOGRAPHS OF GREEN BELT AND GREEN BELT VERIFICATION REPORT
XIII.	COPY OF ONSITE EMERGENCY PLAN
XIV.	PHOTOGRAPH OF CSR ACTIVITIY WITH EVIDENCE
XV.	DETAILS OF ENVIRONMENT MANAGEMENT CELL
XVI.	THIRD PARTY ENVIRONMENT AUDIT REPORT

INTRODUCTION

M/s. Sambhavi Ispat had obtained Environment Clearance for the production of Induction Furnace (8x15 Ton) (M.S. Billet/Steel Ingots), Capacity – 3,96,000 Ton/Year, Rolling Mill (2x500 Ton/Day) (TMT Bars / Wire Rods / Angle / Channel / Patra & Other Re-Rolled Product), Capacity – 30,000 Ton/Year – 3,60,000 Ton/Year, New Coal Gasifier (Producer Gas), Capacity – 19,800 normal cubic meter per hour at Khasra No. 31/1, 31/2, 32/1, 32/2, 32/3, Village – Gerwani, Tehsil & District – Raigarh, State – Chhattisgarh from S.E.I.A.A. Chhattisgarh, Govt. of India, Environment, Forest and Climate Change, Paryavas Bhavan, Sector-19, Nawa Raipur Atalnagar, Raipur vide EC identification no. EC22B008CG181183 File No. OL/EC/IND/RAIGARH/1167 dated 21st October 2022. Further environment clearance of **M/s. Shambhavi Ispat** has been transferred to **M/s Shambhavi Ispat Private Limited** at Village Gerwani, Tehsil & District Raigarh, Chhattisgarh from S.E.I.A.A. Chhattisgarh, Govt. of India, Environment, Forest and Climate Change, Paryavas Bhavan, Sector-19, Nawa Raipur Atalnagar, Raipur vide EC Identification No. EC24B1001CG5311546T file no. 1166/SEIAA - CG/IND/1167 dated 23rd July 2024.

EC Conditions compliance status and Environmental monitoring reports for the period of **October 2025 – March 2026** is given below:

COMPLIANCE STATUS

Sr. No.	EC Conditions	Compliance Status
I. Statutory Conditions		
i.	The project proponent shall obtain Consent to Established / Operate under the provision of the Air (Prevention & Control of Pollution) Act, 1981 and Water (Prevention & Control of Pollution) Act, 1974 from the Chhattisgarh Environment Conservation Board (CECB).	Complied We have obtained CTE from CECB vide letter no. 5103/TS/CECB/2022 dated 31/10/2022 and Renewal of CTO from CECB vide letter no. 9965/TS/CECB/2024 dated 12/03/2024. Copy of CTE and CTO are attached as Annexure – I .

EC Compliance Report
Compliance Period: October 2025 – March 2026

Sr. No.	EC Conditions	Compliance Status
ii.	The project proponent shall obtain all necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.	Complied We have obtained CGWA NOC from the Central Ground Water Authority vide their letter No. CGWA/NOC/IND/REN/1/2025/10473 which is valid up to 29/08/2027. Copy of CGWA NOC is attached as Annexure – II.
iii.	The project proponent shall obtain authorization under the Hazardous and Other Waste Management Rules, 2016 as amended from time to time.	Agree to comply with the stipulated condition
II. Air Quality Monitoring and Prevention		
i.	The project proponent shall install 24X7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31 st March 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7 th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Acts, 1986 or NABL accredited Laboratories.	Complied We have installed 24X7 continuous emission monitoring system at process stacks to monitor stack emission which is connected to online servers. Monitoring of stack emission is also being carried out through NABL accredited laboratory. Details of CEMS and CAAQMS is attached as Annexure-III and stack emission monitoring report is attached as Annexure-IV
ii.	The project proponent shall Monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL Accredited Laboratories.	Complied Monitoring of fugitive emission is being carried out through NABL accredited laboratory regularly.

EC Compliance Report
Compliance Period: October 2025 – March 2026

Sr. No.	EC Conditions	Compliance Status
		Fugitive monitoring test reports are attached as Annexure-IV
iii.	The project proponent shall carryout Ambient Air Quality Monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM ₁₀ and PM _{2.5} in reference to PM emission, and SO ₂ and NO _x in reference SO ₂ and NO _x emissions) within and outside the plant area (at lease at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions and connected to SPCB and CPCB online server.	Complied We have installed online Ambient Air Quality Monitoring System in the plant which is connected to SPCB and CPCB online server. Monitoring of Ambient Air Quality is also being carried out regularly through NABL accredited laboratory. Details of CAAQMS is attached as Annexure-III and Ambient Air Quality monitoring reports are attached as Annexure-IV
iv.	The project proponent shall provide adequate air pollution control arrangements at all point and non-point sources. Colleting hoods with Fume Extraction System with bag filters (PTFE) of adequate capacity and high efficiency shall be installed in induction furnace(s) with minimum 30 meter stack height and collecting hoods with Fume Extraction System with Bag Filters (PTFE) of adequate capacity and high efficiency shall be installed in reheating furnace coal gasifier based rolling mill with minimum 53 meter stack height to ensure that particulate matter emission less than 25 mg/Nm3 all the time. The project proponent shall install lime dosing unit before the stack inlet to control the Sulphur dioxide emission. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags. Project proponent shall install suitable and effective air pollution control equipment	Complied We have installed following Air Pollution Control (APC) system in the plant: - Fume extraction systems with Bag Filter - Chimney installed with the height as per the guidelines. - Water Sprinklers - Covered shed for raw material and finish goods. Sprinkling of water is being done regularly. Transportation of raw materials and finish goods are being transported through covered vehicles only. All internal road have made pucca.

EC Compliance Report
Compliance Period: October 2025 – March 2026

Sr. No.	EC Conditions	Compliance Status				
	at all transfer points, junction points etc. also. All the conveying system, transfer point, junction point etc. shall be covered. Adequate provision shall be made for sprinkling of water at strategic locations to ensure dust does not get air borne. For controlling fugitive dust, regular sprinkling of water in vulnerable areas of the plant shall be ensured. Proper ventilation shall be provided in induction furnace plant. All air pollution control systems shall be kept in good running condition all the time and failure (if any), shall be immediately rectified without delay; otherwise, similar alternate arrangement shall be made. In the event of any failure of any pollution control system adopted by the Project authority, the respective production unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. As per proposed submitted emission of pollutants from any point of source shall not exceed the following limits: - <table><tr><td>Particulate Matter</td><td>30 mg/Nm³ (ThirtyMilligram per Normal Cubic Meter)</td></tr><tr><td>Particulate Matter in Re-heating furnace based Rolling Mill</td><td>25 mg/Nm³ (Twenty-Five Milligram per Normal Cubic Meter)</td></tr></table> Project authority shall provide proper space provision for further retrofitting of air pollution control systems in case of further stringency of particulate matter emission limit. The height of any other stack(s) shall not be less than 30 meters.	Particulate Matter	30 mg/Nm ³ (ThirtyMilligram per Normal Cubic Meter)	Particulate Matter in Re-heating furnace based Rolling Mill	25 mg/Nm ³ (Twenty-Five Milligram per Normal Cubic Meter)	Stack is not required for our rolling mill as it is operated through hot charging. Pollution control equipments are also being maintained time to time. Monitoring of fugitive emission are also being carried out through NABL accredited laboratory. Photograph of fugitive emission measures are attached as Annexure-V and Stack monitoring report and Fugitive emission monitoring reports are attached as Annexure-IV
Particulate Matter	30 mg/Nm ³ (ThirtyMilligram per Normal Cubic Meter)					
Particulate Matter in Re-heating furnace based Rolling Mill	25 mg/Nm ³ (Twenty-Five Milligram per Normal Cubic Meter)					

EC Compliance Report
Compliance Period: October 2025 – March 2026

Sr. No.	EC Conditions	Compliance Status
v.	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/fugitive emissions to Integrated Regional Office of Ministry of Environment, Forest and Climate Change, Raipur, Zonal office of CPCB and Regional Office of Chhattisgarh Environment Conservation Board (CECB) along with six-monthly monitoring report.	Being Complied Half Yearly Compliance report along with stack monitoring report, ambient air quality monitoring report and fugitive monitoring reports are being submitted regularly to the competent authorities. The Monitoring reports are attached as Annexure-IV
vi.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Being Complied. Regular cleaning for road, shop, floors, roofs, are in practice and vacuum cleaners have been provided for cleaning.
vii.	Recycle and reuse iron ore fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process.	Being Complied.
viii.	The project proponent shall use mechanically covered leak proof trucks / dumpers vehicles for transportation of raw materials.	Complied. Raw material is being transported through tarpaulin covered vehicles only. A mechanically covered leak proof trucks / dumpers vehicle is not available in the market as on date. Photograph of covered vehicle is attached as Annexure – V .
ix.	At entry and exit point of plant, wheel wash system shall be provided to control wheel generated dust.	Agreed to comply with the stipulated condition.
x.	Provision for monitoring of vehicles by installation of closed-circuit cameras (CCTV) at suitable locations i.e. entry	Complied We have installed CCTV at suitable

EC Compliance Report
Compliance Period: October 2025 – March 2026

Sr. No.	EC Conditions	Compliance Status
	gate, weigh bridge, internal parking area etc. shall also be made to ensure the incoming and outgoing vehicles are mechanically covered.	locations in the plant premises. Photograph of CCTV Cemara is attached as Annexure-VI
xi.	The project proponent shall provide covered sheds for raw materials like scrap and sponge iron Ferro Alloys etc.	Complied All the raw materials is being stored in covered sheds only. Photos of covering sheds are attached as Annexure-V
III. Water Quality Monitoring and Preservation		
i.	The Project Proponent shall provide adequate facilities for proper treatment of industrial effluent and domestic effluent. Project proponent shall provide adequate facility for the proper treatment of effluent (neutralization system). The ETP shall have acid proof lining to avoid any chance of under ground water contamination. Sludge generated from effluent treatment plant shall be transferred to sludge drying beds and disposed off as per the Hazardous and Other Waste Management Rules, 2016 as amended from time to time. MBBR based Sewage Treatment arrangement shall be provided for treatment of domestic effluent to meet the prescribed standards. Project proponent shall ensure the treated effluent quality within standard prescribed by Ministry of Environment, Forest and Climate Change, Government of India under G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF as amended from time to time. No effluent shall be discharged out of plant premises under any circumstances. Any liquid effluent what so ever generated shall not be discharged into the river or any surface water bodies under any	Complied No any industrial effluent is being generated as only induction furnace unit is in operation. Domestic effluent so generated is being treated by soak pits and no effluent is being remains after soak pits for further disposal. We have implemented closed cooling circuit and maintained Zero Liquid Discharge also.

EC Compliance Report
Compliance Period: October 2025 – March 2026

Sr. No.	EC Conditions	Compliance Status
	circumstances, and it shall be reused wholly in the process/plantation within plant area. Adhere to “Zero Liquid Discharge”.	
ii.	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers / samplings wells in the plant and adjacent areas through laboratories recognized under Environment (Protection) Act, 1986 or NABL Accredited Laboratories.	Complied Ground water quality is being monitored twice in a year through NABL accredited laboratory. Ground water quality reports are attached as Annexure - IV
iii.	The project proponent shall submit monthly summary report of effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of Ministry of Environment, Forest and Climate Change, Nagpur, Zonal office of CPCB and Regional Office of Chhattisgarh Environment Conservation Board (CECB) along with six-monthly monitoring report.	Agreed with the stipulated condition.
iv.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	Complied We have constructed garland drains and collection pits in the plant premises. Photograph of garland drain is attached as Annexure-VII
v.	The project proponent shall practice rainwater harvesting to maximum possible extent.	Complied Rainwater harvesting system has been developed in the plant.
vi.	The project proponent shall make efforts to minimize water consumption in the plant by segregation of used water, practicing cascade use and by recycling treated water.	Being Complied.

EC Compliance Report
Compliance Period: October 2025 – March 2026

Sr. No.	EC Conditions	Compliance Status
vii.	The project proponent shall used the maximum surface water.	Agreed with the stipulated condition.
viii.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Complied We have provided Personal Protection Equipment (PPE) to workers as per the norms of Factory Act. Photographs of workers wearing PPE is attached as Annexure-VIII
ix.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied We have provided all necessary infrastructure and facilities to construction labour within the site.
x.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Being Complied. Occupational health surveillance of the workers is being done on a regular basis and the records is also being maintained as per the Factories Act. Occupational health surveillance records (Form-21) is attached as Anneuxure-IX
IV. Noise Monitoring and Prevention		
i.	Noise level survey shall be carried as per prescribed guidelines and report in this regard shall be submitted to Regional Office of the Ministry of Environment, Forest and Climate Change, Nagpur as a	Complied Noise level monitoring is being carried out as per prescribed guidelines and the report is being submitted regularly along the six

EC Compliance Report
Compliance Period: October 2025 – March 2026

Sr. No.	EC Conditions	Compliance Status
	part of six-monthly compliance report.	monthly compliance report to the competent authorities.
ii.	The ambient noise levels should conform to the standards prescribed under Environment (Protection) Rules, 1986 viz. 75 dB (A) during day time and 70 dB (A) during night time.	Complied Noise level monitoring is being monitored regularly through NABL accredited laboratory. As per the report the noise levels are within the prescribed standard limit. Noise Level Monitoring reports are attached as Annexure – IV.
V. Energy Conservation Measures		
i.	Ensure installation of regenerative type burner of reheating furnace (s). The project proponent shall not utilize any solid fuel such as coal as fuel directly in the reheating furnace(s) or any other furnace(s). Only gas from producer gas plant shall be used in reheating furnace (s) as a fuel.	Complied We have installed rolling mill which is operated through hot charging, hence reheating furnace is not installed. We have installed electricity based induction furnace hence no any solid fuel such as coal as fuel are required.
ii.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Agreed with the stipulated condition.
iii.	The project proponent shall ensure use of LED lights in their offices and residential areas.	Complied We have provided LED lights in our plant premises, and plant office at suitable locations to reduce energy consumption. Photograph of LED Light is attached as Annexure-X
VI. Waste Management		
i.	The project proponent shall take effective steps for safe disposal of solid wastes and	Complied

EC Compliance Report
Compliance Period: October 2025 – March 2026

Sr. No.	EC Conditions	Compliance Status
	sludge. Furnace slag shall be used as sub base material in road construction/will be given to brick manufacturer. End Cutting shall be used recycled back as raw material in own induction furnaces. Mill scale shall be given to nearby ferro alloys manufacturing unit or casting unit. Tar and Oily sludge shall be given to coal tar recyclers / agencies engaged in construction activities / given to nearby Pellet plant units. Cinder shall be given to brick manufacturing units.	Following step is being taken for safe disposal of solid wastes and sludge: Furnace slag is being sold to slag crushing unit. End cutting is being used as raw material in own induction furnace for steel making. Oily sludge is being sold to authorized recycler.
ii.	Used refractories shall be recycled as far as possible.	Being Complied.
iii.	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous and Other Waste (Management & Trans boundary Movement Rules, 2016.	Agreed with the stipulated condition.
iv.	The Project proponent shall utilize fly ash bricks / blocks etc. in all construction activities.	Complied Only fly ash bricks is being utilized in all construction activities. Photograph of fly ash bricks utilization is attaches as Annexure-XI
v.	Kitchen waste (if any) shall be composted or converted to biogas for further use.	Complied
vi.	The project proponent shall install filter press for dry disposal of sludge received from ETP and shall used the waste as manure in plantation.	Agreed with the stipulated condition.
VII. Green Belt		
i.	Green belt shall be developed in an area equal to 40% (8.13 Ha.) of the plant area	Complied

EC Compliance Report
Compliance Period: October 2025 – March 2026

Sr. No.	EC Conditions	Compliance Status
	with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant. As far as possible maximum area of open spaces shall be utilized for plantation purposes. Project proponent shall ensure that plantation will be done within 1 year.	We are maintaining good greenery within plant premises. Green belt has been developed, which is about 40% of the total acquired area with a native tree species in accordance with CPCB guidelines. The greenbelt covered the entire periphery of the plant. Photographs of green belt and Green belt verification report are attached as Annexure-XII
ii.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	Agreed to comply with the stipulated condition.
VIII. Public Hearing & Human Health Issues		
i.	The project proponent shall strictly follow the timeframe so as to close/comply the issue the raised during Public Hearing.	Complied
ii.	Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied. We have prepared Onsite Emergency Plan for the industry. Copy of Onsite Emergency Plan is attached as Annexure-XIII.

IX. Corporate Environment Responsibility

i.	The project proponent shall comply with the provision of the Ministry of Environment, Forest and Climate Change, New Delhi OM vide F.No. 22-65/2017-IA.III dated 1 st May 2018, as applicable, regarding Corporate Environment Responsibility. Project proponent shall made CER fund as follows:-					Being Complied
	Additional Capital Investment (In Lakh)	Percentage of Capital Investment to be Spent	Amount Required for CER Activities (In Lakh)	Amount Proposed and Details for CER Activities (In Lakh)		We are actively involved in CER activities.
				Particular	CER Fund Allocation (In Lakh)	
				Following Activities at, 11 Government Schools, Village - Taraimal		Photographs and evidence of CSR/CER workds is attached as Annexure-XIV .
	4000	1%	40	Patitra Van Nirman at Gothan in Village Taraimal	13.05	
				Rain water harvesting	6.80	
				Environmental Awareness Program	11.00	
				Potable Drinking Water Facility	8.10	
				Running Water Facility for Toilets	3.30	

EC Compliance Report
Compliance Period: October 2025 – March 2026

				Plantation with fencing	2.40	
				Total	Rs. 44.65	
a)	Development of “Pavitra-van Nirman” at Gothan in Village – Taraimal , Khasra no. 39 (P) area 2 Acre as dense and religious plantation. Estimate cost of this plantation is around Rs. 13.05 Lakhs.					Being Complied
b)	Rain Water Harvesting in nearby Schools, this will cost to Rs. 6.80 Lakhs.					Being Complied
c)	Environmental awareness programme in nearby schools, this will cost to Rs. 11 Lakhs.					Being Complied
d)	Peripheral Plantation with fencing in schools, this will cost to Rs. 2.40 Lakhs.					Being Complied
e)	Providing running water in schools, this will cost to Rs. 3.30 Lakhs.					Being Complied
f)	Providing RO based drinking water facility in schools, this will cost to Rs. 8.10 Lakhs.					Being Complied
ii.	The project proponent shall submit the Corporate Environmental Responsibility project work completion report issued by the concerned principle of the respective schools and concerned gram Panchayat.					Agreed with the stipulated condition
iii.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringement / deviation / violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements/ deviations / violation of the environmental / forest / wildlife norms / conditions in this regard shall be submitted to the Ministry of Environment, Forest and Climate Change, New Delhi / SEIAA, Chhattisgarh as a part of six-monthly report.					Complied. We have laid down environmental policy duly approve by the Board of Director.

EC Compliance Report
Compliance Period: April October 2025 – March 2026

iv.	A separate Environment Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of Senior Executive, who will directly to the head of the organization.	Complied Industry has implemented Environmental Cell headed by Laboratory Staff and Field Staff. The Cell is directly reporting to Director. Details of Environment Management Cell is attached as Annexure-XV.
v.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Regional Office, Ministry of Environment, Forest and Climate Change, Nagpur / SEIAA, Chhattisgarh along with the Six-Monthly Compliance Report.	Complied
vi.	Self-environment audit shall be conducted annually. Ever three years third-party environmental audit shall be carried out.	Complied We have carried out environmental audit by third party. Third Party Environment Audit Report is attached as Annexure-XV
vii.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants (if any) shall be implemented.	Being Complied.
X. Additional Conditions		
i.	Project proponent shall ensure that	Agreed to comply with the

EC Compliance Report
Compliance Period: October 2025 – March 2026

	whatever phenolic water be generated shall be immediately incinerated in own gasifier. Project proponent shall ensure the no phenolic water shall be discharged outside the premises under any circumstances. Project proponent shall also follow the guidelines of SOP issued by CPCB in this matter and shall obtain authorization of Hazardous Waste Disposal as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended from time to time.	stipulated condition.
ii.	Project proponent shall ensure that as per the Wildlife conservation plan mentioning the budget in the 2 nd and 3 rd year will allocate the similar budget in the 4 th and 5 th year. Project proponent shall not disturb the forest landscape of the vicinity. The amount shall be deposited in the State CAMPA fund.	Complied. We have praped Wildlife conservation plan mentioning the budget which is approved by Forest Department. We also ensure that the forest landscape of the vicinity will not disturb.
iii.	Project proponent shall not disturb the livelihood of habitants, depends on forest-based products.	Agreed with the stipulated condition.
iv.	Project proponent shall prepare wildlife conservation plan and get its approval from concerned Authorities for every 5 years for entire life of the unit. The amount shall be deposited in the State CAMPA fund.	Complied. We have praped Wildlife conservation plan mentioning the budget which is approved by Forest Department.
v.	This EC shall be granted subject to the condition that the emission level shall not exceed the prescribed limit notified by Central Pollution Control Board failing which this EC shall deemed to be cancelled.	Agreed with the stipulated condition.
vi.	No additional land shall be acquired for this project	Agreed with the stipulated condition.
vii.	Local persons shall be given employment during development and operation of the plant.	Complied Local persons are being employed on priority as per the eligibility.

EC Compliance Report
Compliance Period: October 2025 – March 2026

viii.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Complied The advertisement of grant of environmental clearance was published in local widely circulated newspapers
ix.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of Local Bodies, Panchayats and Municipals bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied We have provided intimation along with copies of Environment Clearance to the Local and District Administrations.
x.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Being Complied A six-monthly report on the status of the compliance of the stipulated environmental conditions is being submitted regularly.
xi.	The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters (if any) indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Being Complied We have installed CEMS and CAAQMS in the plant to monitor ambient levels as well as stack emissions. Manual monitoring is also being carried out through NABL accredited laboratory. CEMS and CAAQMS details are attached as Annexure-III and All monitoring reports are attached as Annexure-IV .
xii.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest	Being Complied A six-monthly report on the status of the compliance of the stipulated environmental

EC Compliance Report
Compliance Period: October 2025 – March 2026

	and Climate Change at Environment clearance portal.	conditions is being submitted regularly.
xiii.	The project proponent shall submit the environmental statement for each financial year in Form-V to Chhattisgarh Environment Conservation Board (CECB) as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company. The project proponent shall inform the Regional Office, Ministry of Environment, Forest and Climate Change, Raipur as well as SEIAA, Chhattisgarh the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Being Complied Environmental statement for each financial year in Form-V is being submitted in a time-bound manner.
xiv.	The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the State Government.	Agreed with the stipulated condition.
xv.	The project proponent shall abide by all the commitments and recommendations made in the EIA / EMP report and also that during their presentation to the State Expert Appraisal Committee.	Agreed with the stipulated condition.
xvi.	No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, Government of India/SEIAA, Chhattisgarh.	Agreed with the stipulated condition.
xvii.	Concealing factual data or submission of false/fabricated data and failure to comply with any of the mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.	Agreed with the stipulated condition.
xviii.	SEIAA, Chhattisgarh may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed with the stipulated condition.

EC Compliance Report
Compliance Period: October 2025 – March 2026

xix.	SEIAA, Chhattisgarh reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	Agreed with the stipulated condition.
xx.	The Integrated Regional Office Ministry of Environment, Forest and Climate Change, Raipur shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.	Agreed with the stipulated condition.
xxi.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and Rules and other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	Agreed with the stipulated condition.
xxii.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Agreed with the stipulated condition.
xxiii.	Environment Clearance will be valid as per the provision of EIA Notification, 2006 (as Amended).	Agreed with the stipulated condition.

ANNEXURES

ANNEXURE – I: COPY OF CTE AND CTO



El - 75/Raigarh/22

Dated - 31/10/2022

CHHATTISGARH ENVIRONMENT CONSERVATION BOARD

Paryavas Bhawan, Sector - 19, Nava Raipur Atal Nagar,

District - Raipur (C.G.) 492002

E-mail - hocecb@gmail.com

No. **5103/TS/CECB/2022**

Nava Raipur Atal Nagar, dated: **31/10/2022**

To,

M/s Shambhavi Ispat,
Village-Gerwani,
Tehsil & District-Raigarh (C.G.)

Sub: "Permission to Establish" under expansion for New Induction Furnace (8x15 T) (MS Billets/Steel Ingots – 3,96,000 Metric Tonnes/Year, Expansion of Rolling Mill (MS Bars/Road/TMT bars/Wire Rod/Angle/Channel/Steel Structures) from capacity of 30000 Metric Tonnes/Year to 3,60,000 Metric Tonnes/Year (by installing new 2x500 TPD Rolling Mill) and New Coal Gasifire (Producer Gas) – 19,800 NM3/Hr. By M/s Shambhavi Ispat, Village-Gerwani, Tehsil & District-Raigarh (C.G.).

- Ref.: 1. Environmental Clearance issued by State Level Environment Impact Assessment Authority, Chhattisgarh, Government of India, Ministry of Environment, Forest & Climate Change vide letter no. 1166/SEIAA,CG/Udyog/1167, Nava Raipur Atal Nagar, Dated: 19/10/2022 (EC Identification No. EC22B008CG181183).
2. Your online application dated: 26/09/2022 and subsequent correspondence ending dated: 14/10/2022 (online application no. 10937446).

--:: oo ::--

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act, 1974, and the Air (Prevention and Control of Pollution) Act, 1981 and without reducing your responsibilities under the said Acts and after going through your proposal for achieving the effluent and gaseous emission standards, it is to inform you that this Board grants you permission to establish under expansion New Induction Furnace (8x15 T) (MS Billets/Steel Ingots – 3,96,000 Metric Tonnes/Year, Expansion of Rolling Mill (MS Bars/Road/TMT bars/Wire Rod/Angle/Channel/Steel Structures) from capacity of 30000 Metric Tonnes/Year to 3,60,000 Metric Tonnes/Year (by installing new 2x500 TPD Rolling Mill) and New Coal Gasifire (Producer Gas) – 19,800 NM3/Hr. By M/s Shambhavi Ispat, Village-Gerwani, Tehsil & District-Raigarh (C.G.), subject to fulfillment of following terms and conditions.

Terms & Conditions: -

1. Industry shall comply with all the terms and conditions of Environmental Clearance issued by State Level Environment Impact Assessment Authority, Chhattisgarh, Government of India, Ministry of Environment, Forest & Climate Change vide letter no. 1166/SEIAA,CG/Udyog/1167, Nava Raipur Atal Nagar, Dated: 19/10/2022 (EC Identification No. EC22B008CG181183).
2. Industry shall provide adequate facility for proper treatment of industrial effluent and domestic effluent. Industry shall provide Sewage Treatment

Plant (STP) for treatment of domestic effluent. Industry shall provide adequate arrangement for treatment of industrial effluent. Treated industrial shall be utilized either in process or for plantation purposes within plant premises. Un- treated/treated effluent (industrial and domestic) shall not be discharged into the river or any surface water bodies under any circumstances. Industry shall make arrangement of suitable drains/pipe networks to ensure adequate flow for full utilization of treated effluent inside the premises. The concept of zero discharge shall be maintained all the time. Arrangements shall be made that effluents and storm water do not get mixed. Industry shall ensure the treated effluent quality within the standard prescribed by Board published in Gazette notification Dated 25/03/1988. The major parameters shall not exceed the following limits: -

a.	pH	5.5 - 9.0
b.	BOD	30 mg/L
c.	COD	250 mg/L
d.	Oil and Grease	10 mg/L
e.	Suspended Solids	100 mg/L

Chhattisgarh Environment Conservation Board may further stipulate stringent limit depending upon environmental conditions.

3. Closed cycle cooling system shall be provided. Minimum water for makeup purposes shall be ensured. Industry shall provide adequate measuring arrangements for the measurement of water utilized in different categories and effluent generated before commissioning of the expansion activity. Industry shall use treated effluent for make-up of cooling water as maximum as possible.
4. Industry shall not use ground water without permission of CGWA/ Competent Authority for industrial activities. Industry shall use harvested rainwater for industrial purpose as maximum as possible.
5. Industry shall provide adequate air pollution control arrangements at all point and non point sources. Fume extraction system followed by bag filters of adequate capacity and high efficiency shall be installed in induction furnace(s) to ensure particulate matter emission less than 30 mg/Nm³ all the time with minimum 30 meter stack. Collecting hood with bag filters / scrubber of adequate capacity & high efficiency shall be install in Rolling mill with minimum 53m stack height to ensure particulate matter emission less than 25 mg/Nm³ all the time. Industry shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags. Project proponent shall install suitable & effective air pollution control equipments at all transfer points, junction points etc. also. All the conveying system, transfer point, junction point etc. shall be covered. Adequate provision shall be made for sprinkling of water at strategic locations to ensure dust does not get air borne. For controlling fugitive dust, regular sprinkling of water in vulnerable areas of the plant shall be ensured. Proper ventilation shall also be provided in induction furnace plant. All air pollution control systems shall be kept in good running condition all the time and failure (if any), shall be immediately rectified without delay; otherwise, similar alternate arrangement shall be made. In the event of any failure of any pollution control system adopted by Industry, the respective production unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. As per proposal submitted emission of pollutants from any point source shall not

exceed the following limit: -

Particulate Matter	
Induction Furnaces	30 mg/Nm ³ (Thirty Milligram per Normal Cubic Meter)
Reheating Based Rolling Mill	25 mg/Nm ³ (Twenty Five Milligram per Normal Cubic Meter)

Project proponent shall provide proper space provision for further retrofitting of air pollution control systems in case of further stringency of particulate matter emission limit.

6. Industry shall provide appropriate dust suppression / dust extraction system at all fugitive dust emission sources such as raw material handling, product and wastes handling section, conveying system, transfer points/junction points, stock house etc. All conveyor belt, all transfer points, all junction points etc. shall be completely closed to avoid fugitive emission. All transfer points / junction points shall be fitted with dust suppression system. Industry shall also install water sprinkler system for dust suppression at all vulnerable points / areas to control fugitive dust emission.
7. Industry shall adhere to sector specific guidelines / SOP published by CPCB from time to time for effective fugitive emission control. Industry shall maintain fugitive dust emissions to the minimum level in the areas of road transportation routes of raw materials and wastes to ensure Ambient Air Quality within latest prescribed standard. Black topping/asphalting/concreting and maintenance with requisite water sprinkling arrangements shall be ensured.
8. Industry shall install and commission Continuous Emission Monitoring System - CEMS at stacks of Induction Furnace and Rolling mill (as per CPCB guidelines for relevant parameters) and shall be connected with CECB/CPCB server before commissioning of plant with expanded capacity. Calibration and validation of data shall be carried out of all CEMS and industry shall ensure availability of real time data in CECB / CPCB server.
9. Industry shall install separate electric metering arrangements with time totalizer and interlocking system for the running of pollution control device(s). These arrangements shall be made in such a fashion that any non-functioning of pollution control device(s) shall immediately stop the electric supply to the production / raw material supply unit and shall remain tripped till the pollution control device/devices are made functional again / rectified to achieve the desired efficiency. The record & log book of electricity and chemical consumption for running the pollution control equipments shall be maintained & submitted to Board every month.
10. Regular monitoring of ground level concentration of SO₂, NO_x, PM₁₀ and PM_{2.5} at at-least four stations shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, the plant shall cease all operations till necessary control measures are provided. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with Chhattisgarh Environment Conservation Board Raipur. The data so collected shall be properly analyzed and periodic reports shall be submitted to Regional

Office, Chhattisgarh Environment Conservation Board, Raigarh.

11. Industry shall use fly ash brick, fly ash block and fly ash based products in the construction/repairing activities. Industry shall also use fly ash for filling low-lying areas within plant premises.
12. Industry shall take effective steps for safe disposal of solid wastes and sludge. Furnace slag shall be sold to slag crushing units. Defective billets/runner riser and miss rolls shall be used as raw material in own Induction Furnace(s) for steel making. Oily sludge, Tar refractory waste etc. shall be sold to authorized recyclers / re-processors for proper disposal through incineration. Cinder will be given to brick manufacturing unit. Industry shall obtain letter of authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (as amended up to date) from the Board. Industry shall dispose hazardous wastes through co-processing, pre-processing to the extent possible prior its disposal to incineration/ landfill as per provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Industry shall strictly comply with rule.
13. Phenolic water shall be disposed off as per SoP issued by CPCB.
14. All internal roads shall be maintained pucca. Industry shall adopt good housing keeping practice. Vehicle movement areas / roads within premises shall be maintained pucca from drain to drain to avoid dusting.
15. Industry shall provide wheel washing system at entry and exit of plant.
16. Industry shall take proper action to control the noise pollution. Industry shall install appropriate noise barriers /control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation to control the noise. Earplugs/ear muffs etc. shall be provided to the employee working in the high noise areas. The noise level shall not exceed the limits 75 dB (A) during the daytime and 70 dB (A) during the night time within the factory premises.
17. Industry shall provide appropriate arrangements to avoid air pollution, water pollution, noise pollution etc. during construction phase and during transportation of plants / machineries / equipments / construction materials etc. to the site. The effluent from construction labour houses shall be treated properly and no effluent shall be discharged outside of the premises. For controlling fugitive dust during transportation and construction works, regular sprinkling of water in village roads and other vulnerable areas of the plant shall also be ensured. The emission from vehicles engaged for transportation of plants/machineries/equipments/construction materials etc. to the site shall be ensured within prescribed vehicle emission norms. First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
18. The construction of effluent treatment system and installation/up-gradation/modification of air pollution control equipments shall be taken up simultaneously with other civil/mechanical works of modernization / expansion activity. The progress of the activities related to the project shall be submitted periodically to Chhattisgarh Environment Conservation Board, Naya Raipur Atal Nagar.
19. Industry shall adopt rainwater-harvesting technique in the project area and residential area (if any) for recharge of ground water. Industry shall develop at least 09 rainwater-harvesting structures and reservoirs / ponds

to completely harvesting the rainwater of premises before commissioning of the plant with expanded capacity. Industry shall ensure recharging of ground water by rainwater harvesting of at-least double the quantity of water use by them in induction furnace and rolling mill, which shall be done within the premises.

20. Wide green belt of broad leaf local species shall be developed along the plant premises. As far as possible maximum area of open spaces shall be utilized for plantation purposes. Green belt / plantation shall be developed within the plant premises in at-least 40% area of total plant area before commissioning of the plant with expanded capacity. Development of green belt / plantation outside project premises in adjacent areas such as avenue plantation, plantation in vacant areas, social forestry, etc. shall also be ensured before commissioning of the plant with expanded capacity.
21. Industry shall provide garland drains with appropriate check dams all along the raw materials / product storage areas etc. to avoid any possibility of erosion (wearing away) during rain. Sump capacity shall also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains. Industry shall provide adequate collection and treatment arrangement for proper management of storm water. The surface run-off shall be de-silted through a series of check dams and drains.
22. Industry shall establish an environmental management cell to carryout function relating to environmental management under the supervision of senior executive who will directly report to the head of organization. A full-fledged laboratory with qualified technical / scientific staff shall be provided to monitor the influent / effluent quality, ground water quality, storm water / runoff quality, surface water quality, soil quality, ambient air quality, stack emission and environmental samples etc.
23. Necessary fund shall be provided for implementation of the above conditions, conditions to be incorporated in the 'consent to operate' of the Board and for environmental safeguards.
24. Industry shall obtain all necessary statutory clearances / licenses / permissions from concerned Central Government / State Government Departments, Boards, Bodies and Corporations etc. before start of construction / establishment of the plant of expanded activity. Industry shall follow direction issued by Central Government / State Government, Central Pollution Control Board / Chhattisgarh Environment Conservation Board from time to time regarding control of water & air pollution and for environmental conservation.
25. Industry shall not claim any right on the basis of the "Permission to Establish" granted of the Board. The issuance of this permission does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.
26. Industry shall not commission and operate any of the units of expansion activities without obtaining consents under section 25 of the Water (Prevention and Control of pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of pollution) Act, 1981 of the Chhattisgarh Environment Conservation Board in any circumstances. Industry shall follow any other condition(s) given at the time of grant of consent under

the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981.

27. Any change in production capacity, process, raw materials used, project profile etc. shall be intimated to the Board and prior permission of the Board shall be obtained for the same.
28. This permission to establish shall be valid for the period of five years effective from the date of issue of this letter. This permission to establish shall be treated as cancelled in case; no construction activity has been started on the site regarding establishment of the industry during this period. Chhattisgarh Environment Conservation Board reserves the right to extend the validity period / not to extend the validity period / cancel / withdraw the permission to establish of the industry, based on the construction activities carried out on the site regarding establishment of the industry.
29. Board reserves the right to amend / cancel any of the above conditions, stringent the emission / effluent limits stipulated above and add new conditions as and when deemed necessary in the interest of environmental protection, change in the project profile or non-satisfactory implementation of the stipulated conditions etc.

The consent (for operation) as required under the Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981 shall be granted to your industry after fulfillment of all the conditions mentioned above. For this purpose you shall have to make an application to this Board in the prescribed Proforma at least two months before the expected date of commissioning of the plant with expanded capacity. The applicant shall not without valid consent (for operation) of the Board bring into use any out let for the discharge of effluent and particulate matter/gaseous emission.

For & on behalf of
Chhattisgarh Environment Conservation Board

Member Secretary
Chhattisgarh Environment Conservation Board
Nava Raipur Atal Nagar,
District - Raipur (C.G.)

Endt. No. **5104/TS/CECB/2022**

Nava Raipur Atal Nagar, dated: **31/10/2022**

Copy to: -

1. Chief Engineer, Chhattisgarh State Electricity Distribution Company Limited, Raipur, for information and necessary action please. The power supply to the unit shall be released only after submission of the copy of "Consent to Operate" issued by Chhattisgarh Environment Conservation Board, Raipur (C.G.).
2. Regional Officer, Regional Office, Chhattisgarh Environment Conservation Board, Raipur (C.G.). Please ensure compliance report, if any condition/conditions are violated by the industry.

Signature valid

Digitally Signed By : Ramesh Chandra

MS

Date: 2022.10.31 18:02:10 IST

Sd/-
Member Secretary
Chhattisgarh Environment Conservation Board
Nava Raipur Atal Nagar,
District - Raipur (C.G.)



CHHATTISGARH ENVIRONMENT CONSERVATION BOARD
Paryavas Bhawan, North Block, Sector - 19,
Nava Raipur Atal Nagar, District - Raipur (C.G.)
e-mail - hocecb@gmail.com

No. **9965/TS/CECB/2024**

Nava Raipur Atal Nagar, Raipur, Dated **12/03/2024**

To,

M/s Shambhavi Ispat,
Village-Gerwani,
Tehsil & District-Raigarh (C.G.)

Sub: - Renewal of the consent of the Board under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981.

Ref: - 1. Consent of the Board issued by Regional Office, Chhattisgarh Environment Conservation Board, Raigarh under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 vide letter no. 7794/TS/CECB/202023 Nava Raipur Atal Nagar, Raipur, 06/02/2023.

2. Your online application no. 14771771, dated 30/01/2024.

--:: 00 ::--

With reference to your above application, consents under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 are hereby renewed for a period **upto 31/01/2027 from the date of issue of this renewal**, subject to the fulfillment of the terms and conditions incorporated in the water and air consent letter no. **7794/TS/CECB/202023 Nava Raipur Atal Nagar, Raipur, 06/02/2023** and subsequent renewal(s)/amendment(s) issued by the Board and additional conditions mentioned below.

This renewal of consent is valid for production capacity of: -

S.No.	Product	Production Capacity
1.	Induction Furnace (4x15 T) (MS Billets/Steel Ingots)	1,98,000 MTPA (One Lacs Ninety Eight Thousand Metric Tonnes per Annum)
2.	Rolling Mill (Through Hot Charging)	1,95,000 MTPA (One Lacs Ninety Five Thousand Metric Tonnes per Annum)

Note :- This renewal of consent in no way to be taken as measure of proof that industry has not violated any pollution laws at any time in past.

Additional Conditions

A. Water (Prevention and Control of Pollution) Act, 1974

1. Industry shall operate and maintain the effluent treatment system effective and regularly. Industry shall ensure treated effluent quality within the prescribed effluent standard all the time. Industry shall not discharge effluent outside the factory premises in any circumstances; hence, zero discharge conditions shall be maintained all the time.
2. Production of rerolled products shall be only through hot charging.
3. Industry shall ensure arrangements like installation of digital water meter separately for underground as well as surface water, reuse of non potable water etc. as per NGT order dated 15/11/2022 on OA no. 392/2022 for use of water.
4. Industry shall provide adequate arrangement for proper, safe and scientific storage, handling and disposal etc. of all solid wastes i.e. slag, mill scale and end cuttings etc. generated.
5. Industry shall use fly ash brick, fly ash blocks or fly ash based products in their construction/repairing activities.
6. All the internal roads shall be maintained pucca. Roads shall be cleaned regularly. Dust, muck and sludge collected from roads shall be disposed properly.
7. Industry shall obtain letter of authorization under Hazardous and Other Wastes (Management and Trans Boundary Movement) Rules, 2016 (as amended upto date) from the Board and comply with the rule.
8. Industry shall ensure transportation of raw materials / waste by properly covered vehicles. Vehicles used for transporting the wastes / sludge shall be covered with tarpaulins and optimally loaded. Vehicular emissions shall be kept under control and regularly monitored.
9. Wide green belt of broad leaf local species shall be maintained all along the plant premises. At-least 40% area of total plant area shall be used for green belt development. As far as possible maximum area of open spaces shall be utilized for plantation purposes.
10. Industry shall enhance the capacity of rainwater harvesting system to increase the ground water recharge.
11. Industry shall submit Environment Statement to this Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31st March on or before 30th September every year.
12. This renewal of consent is being issued under the "Scheme of Auto-Renewal of Consent" of the Board issued vide office order no. 5937 dated 29/01/2018 as per self certificate submitted by authorized signatory Mr. Pawan Kumar Agrawal, Partner of M/s Shambhavi Ispat, Village-Gerwani, Tehsil & District-Raigarh (C.G.).
13. In case, if the capital investment is increased by such amount that the total investment exceeds the range for which renewal fees has been paid, the industry shall have to pay the difference amount of renewal fees for the corresponding block years.

14. In case, the prescribed fee payable is amended in future, the industry shall be liable to pay the difference amount for corresponding block years.
15. Chhattisgarh Environment Conservation Board reserves the rights to revoke the consent / renewal of consent at any time for any violation/non-compliance.

B. Air (Prevention and Control of Pollution) Act, 1981

1. Industry shall operate and maintain the air pollution control system / particulate emission control system regularly to ensure the emission of particulate matter less than 30 mg/Nm³ all the time. Steps shall be taken to control fugitive emission inside the factory premises. Effective steps shall be taken to maintain the ambient air quality within the prescribed limits.
2. Production of rerolled products shall be only through hot charging.
3. Ambient Air Quality within prescribe shall be within latest prescribed limit.
4. Industry shall provide adequate arrangement for proper, safe and scientific storage, handling and disposal etc. of all solid wastes i.e. slag, mill scale and end cuttings etc. generated.
5. Calibration and data validation shall be carried out of CEMS installed in stacks of induction furnace and industry shall ensure availability of real time data in CPCB/CECB server.
6. Industry shall submit stack and ambient air quality monitoring reports every month to the Board regularly.
7. All the internal roads shall be maintained pucca. Roads shall be cleaned regularly. Dust, muck and sludge collected from roads shall be disposed properly.
8. Industry shall use fly ash brick, fly ash blocks or fly ash based products in their construction/repairing activities.
9. Industry shall obtain letter of authorization under Hazardous and Other Wastes (Management and Trans Boundary Movement) Rules, 2016 (as amended upto date) from the Board and comply with the rule.
10. Industry shall ensure transportation of raw materials / waste by properly covered vehicles. Vehicles used for transporting the wastes / sludge shall be covered with tarpaulins and optimally loaded. Vehicular emissions shall be kept under control and regularly monitored.
11. Wide green belt of broad leaf local species shall be maintained all along the plant premises. At-least 40% area of total plant area shall be used for green belt development. As far as possible maximum area of open spaces shall be utilized for plantation purposes.
12. Industry shall submit Environment Statement to the Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31st March on or before 30th September every year.
13. This renewal of consent is being issued under the "Scheme of Auto-Renewal of Consent" of the Board issued vide office order no. 5937 dated 29/01/2018 as per self certificate submitted by authorized signatory Mr. Pawan Kumar Agrawal, Partner of M/s Shambhavi Ispat, Village-Gerwani, Tehsil & District-Raigarh (C.G.).

14. In case, if the capital investment is increased by such amount that the total investment exceeds the range for which renewal fees has been paid, the industry shall have to pay the difference amount of renewal fees for the corresponding block years.
15. In case, the prescribed fee payable is amended in future, the industry shall be liable to pay the difference amount for corresponding block years.
16. Chhattisgarh Environment Conservation Board reserves the rights to revoke the consent / renewal of consent at any time for any violation/non-compliance.

Member Secretary

Chhattisgarh Environment Conservation Board
Nava Raipur Atal Nagar, Raipur (C.G.)

Endt. No. **9966/TS/CECB/2024**

Nava Raipur Atal Nagar, Raipur, Dated **12/03/2024**

Copy to: - Regional Officer, Regional Office, Chhattisgarh Environment Conservation Board, Raigarh (C.G.). Please ensure compliance and report, if any condition/conditions are violated by the industry.

Sd/-

Member Secretary

Chhattisgarh Environment Conservation Board
Nava Raipur Atal Nagar, Raipur (C.G.)

ANNEXURE – II: COPY OF CGWA NOC



भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केन्द्रीय भूमि जल प्राधिकरण
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:		M/s Shambhavi Ispat					
Project Address:		Kh No. 31/1 ,31/2, 32/1 ,32/2, 32/3					
Village:		Gerawani		Block:		Raigarh	
District:		Raigarh		State:		Chhattisgarh	
Pin Code:							
Communication Address:		Kh No. 31/1 ,31/2, 32/1 ,32/2, 32/3, Gerawani, Raigarh, Raigarh, Chhattisgarh - 496001					
Address of CGWB Regional Office :		Central Ground Water Board North Central Chhattisgarh, 2nd Floor, Lk Corporate And Logistic Park, Dhamtari Road, Nh-30, Dumartarai, Raipur, Chhattisgarh - 492015					

1. NOC No.:	CGWA/NOC/IND/REN/1/2025/10473	2. Date of Issuance	09/01/2025										
3. Application No.:	21-4/4386/CT/IND/2021	4. Category: (GWRE 2024)	Safe										
5. Project Status:	Existing Ground Water	6. NOC Type:	Renewal										
7. Valid from:	30/08/2024	8. Valid up to:	29/08/2027										
9. Ground Water Abstraction Permitted:													
Fresh Water		Saline Water		Dewatering		Total							
m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year						
95.00	31350.00					95.00	31350.00						
10. Details of ground water abstraction /Dewatering structures													
Total Existing No.:2							Total Proposed No.:1						
	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu	
Abstraction Structure*	0	0	2	0	0	0	0	0	1	0	0	0	
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps													
11. Ground Water Abstraction/Restoration Charges paid (Rs.):							629700.00						
12. Environment Compensation (if applicable) paid (Rs.):							0.00						
13. Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.							No. of Piezometers		Monitoring Mechanism				
									Manual	DWLR**	DWLR With Telemetry		
**DWLR - Digital Water Level Recorder							1		0	1	0		

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

CENTRAL GROUND WATER AUTHORITY

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये – जीवन बचाये
SAVE WATER - SAVE LIFE

Validity of this NOC shall be subject to compliance of the following conditions:

Mandatory conditions:

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m³/d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

General conditions:

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m³/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).
- 31) In the self-compliance report, the PP shall submit details of Drilling Agency/ Agencies, which has/ have constructed BW(s)/ TW(s) along with undertaking to the effect that all necessary measures have been taken as per directions of Hon'ble Supreme Court provided in Annexure-VII of guidelines dated 24.09.2020 in respect of abandoned/ failed BW(s)/ TW(s)/Piezometer(s), if any. The PP is advised to engage registered drilling agency/ agencies. In the event of any mishap/ unfortunate incident due to negligence in taking measures for prevention of accident due to falling in Bore Well, both PP and concerned drilling agency shall jointly be held responsible and penal action as per extant Government rules shall be taken.

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

**पानी बचाये – जीवन बचाये
SAVE WATER - SAVE LIFE**

CENTRAL GROUND WATER AUTHORITY

Department of Water Resources, River Development and Ganga Rejuvenation
Ministry of Jal Shakti, Govt. of India

Receipt

(As per the guideline Gazette Notification S.O. 3281(E) regarding the New Guidelines dated 24.09.2020 of CGWA, MoJS, Govt. of India)
<https://cgwa-noc.gov.in>

Application No.:	21-4/4386/CT/IND/2021	Date of Issuance:	09/01/2025
Name of Firm:	M/S SHAMBHAVI ISPAT		
AppType Category:	Steel Industry		
Application Type:	Industrial		
PAN/GSTIN No. of Firm/Individual:	/		

S N	Description	Amount (Rs.)
1.	Application Processing Fee	5000.00
2.	Ground Water Abstraction charges	629700.00
3.	Ground Water Restoration charges	0
4.	Environmental Compensation Charges (ECRGW) (Date From to) Days-	
5.	Penalty for non-Compliance of NOC conditions Condition to be mentioned	
6.	Adjustment Charges	
7.	Rebate	
8.	Charges for correction/modification in the existing issued No Objection Certificate	
S.No.	Description	Rate
(i)	Change in User ID	Rs. 1000
(ii)	Change in firm Name	Rs. 5000
(iii)	Extension of No Objection Certificate	Rs. 5000
(iv)	Issuance of duplicate No Objection Certificate	Rs. 5000
(v)	Issuance of corrigendum to No Objection Certificate	Rs. 5000
(vi)	Any other items/correction etc.	Rs. 500
Rs. Rupees Six Lakh Thirty Four Thousand Seven Hundred Only		634700.00

This is an system generated invoice, hence, does not require ink signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011
Phone: (011) 23383561 Fax: 23382051, 23386743
Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE

Term and conditions:

- i. All disputes are subject to Delhi Jurisdiction.
- ii. Any complaint in regard to the rates will not be entertained.

Member-Secretary
CGWA, New Delhi

CENTRAL GROUND WATER AUTHORITY

ANNEXURE – III: DETAILS OF CEMS AND CAAQMS

CEMS DETAILS

Link <http://www.pollution-monitor.com/>

ID – [SIPL](#)

Password – sipl@123

CAAQMS DETAILS

Link <https://cloud.enggenv.com/home.php>

ID – shambhaviispat@gmail.com

Password – sipl@123

ANNEXURE – IV: ENVIRONMENTAL MONITORING
TEST REPORTS



Bhoomi Envirotech Pvt. Ltd.

D-1, Sector-3, Priyadarshini Nagar,
Behind Vijeta Complex, Raipur-492006
Email- info.bhoomienvirotech@gmail.com
Web Site: www.bhoomienvirotech.co.in



TC-13412

Format No. - BEPL/QF/7.8/02

TEST REPORT

ULR	TC	1	3	4	1	2	2	5	0	0	0	0	0	1	4	4	0	F		
Report No.: BEPLTR20251021AAQ001										Date of Issue: 21.10.2025										
Name and Address of Customer*		Shambhavi Ispat, Village - Gerwani , Tehsil & Dist- Raigarh (C.G.)																		
Lab Sample ID.	BEPL/AAQ/2025101601/001										Customer Sample ID*	AAQ-01								
Sample Description*	Ambient Air Sample										Sampling Done By	BEPL Staff								
Sampling Location*	Near Admin Office										Date of Sampling	15.10.2025								
Sampling Method	As Per CPCB Guideline (Vol.1)										Duration of Sampling	24 hr.								
Environment Condition During Testing	Temp. (°C) - 24.9°C Humidity (% RH) - 52 %										Environment Condition During Sampling		Temp. (°C)							
													Min. - 24°C				Max. - 31°C			
													Humidity (% RH)							
													Min. - 56 %				Max. - 88 %			
Sample Quantity Received	PM10 (F.P. x 03 Nos.), PM 2.5 (F.P. x 01 Nos.), SO2 x 01 PVC Bottle , NO2 x 01 PVC Bottle,																			
Date of Sample Received	16.10.2025										Analysis Duration	16.10.2025 to 17.10.2025								

ANALYSIS RESULT

Sr. No.	Parameter	Unit	Result	Limit (As per NAAQS)	Method Reference
1	Particulate Matter (PM ₁₀)	µg/m ³	67.46	100	IS 5182 (P-23) RA 2022
2	Particulate Matter (PM _{2.5})	µg/m ³	30.90	60	IS 5182 (P-24) RA 2024
3	Sulphur Dioxide (SO ₂)	µg/m ³	10.09	80	IS 5182 (P-2/Sec 1) RA 2023
4	Nitrogen Dioxide (NO ₂)	µg/m ³	17.26	80	IS 5182 (P-6) RA 2022

Note:

- The results given above are related to the tested sample, as received & mentioned parameters.
- The customer asked for the above tests only.
- When the information is supplied by the customer these can affect the validity of results.
- Asterisk mark(*) provided by the customer
- This test report shall not be reproduced without the permission of Bhoomi Envirotech Pvt. Ltd. (BEPL)
- The test report will not be used for any publicity/legal purpose.
- Responsibility of the BEPL is limited to the invoiced amount only



21/10/25
(Ritesh Kurhade)
Reviewed By



For, Bhoomi Envirotech Pvt. Ltd.

M Singh
21-10-25
(Meman Kumar Sinha)
Authorized Signatory

.....End of test report.....



Bhoomi Envirotech Pvt. Ltd.

D-1, Sector-3, Priyadarshini Nagar,
Behind Vijeta Complex, Raipur-492006
Email- info.bhoomienvirotech@gmail.com
Web Site: www.bhoomienvirotech.co.in



TC-13412

Format No. - BEPL/QF/7.8/02

TEST REPORT

ULR	TC	1	3	4	1	2	2	5	0	0	0	0	0	1	4	4	1	F		
Report No.: BEPLTR20251021AAQ002										Date of Issue: 21.10.2025										
Name and Address of Customer*		Shambhavi Ispat, Village - Gerwani , Tehsil & Dist- Raigarh (C.G.)																		
Lab Sample ID.	BEPL/AAQ/2025101601/002										Customer Sample ID*	AAQ-02								
Sample Description*	Ambient Air Sample										Sampling Done By	BEPL Staff								
Sampling Location*	Near Main Gate										Date of Sampling	15.10.2025								
Sampling Method	As Per CPCB Guideline (Vol.1)										Duration of Sampling	24 hr.								
Environment Condition During Testing	Temp. (°C) - 24.9°C Humidity (% RH) - 52 %										Environment Condition During Sampling		Temp. (°C)							
													Min. - 24°C				Max. - 31°C			
													Humidity (% RH)							
													Min. - 56 %				Max. - 88 %			
Sample Quantity Received	PM10 (F.P. x 03 Nos.), PM 2.5 (F.P. x 01 Nos.), SO2 x 01 PVC Bottle , NO2 x 01 PVC Bottle,																			
Date of Sample Received	16.10.2025										Analysis Duration	16.10.2025 to 17.10.2025								

ANALYSIS RESULT

Sr. No.	Parameter	Unit	Result	Limit (As per NAAQS)	Method Reference
1	Particulate Matter (PM ₁₀)	µg/m ³	79.94	100	IS 5182 (P-23) RA 2022
2	Particulate Matter (PM _{2.5})	µg/m ³	37.55	60	IS 5182 (P-24) RA 2024
3	Sulphur Dioxide (SO ₂)	µg/m ³	14.74	80	IS 5182 (P-2/Sec 1) RA 2023
4	Nitrogen Dioxide (NO ₂)	µg/m ³	24.16	80	IS 5182 (P-6) RA 2022

Notes:

- The results given above are related to the tested sample, as received & mentioned parameters.
- The customer asked for the above tests only.
- When the information is supplied by the customer these can affect the validity of results.
- Asterisk mark(*) provided by the customer
- This test report shall not be reproduced without the permission of Bhoomi Envirotech Pvt. Ltd. (BEPL)
- The test report will not be used for any publicity/legal purpose.
- Responsibility of the BEPL is limited to the invoiced amount only



Ritesh Kurhade
(Ritesh Kurhade)
Reviewed By



For, Bhoomi Envirotech Pvt. Ltd.

M. Sinha
21-10-25
(Meman Kumar Sinha)
Authorized Signatory

*****End of test report.*****



Bhoomi Envirotech Pvt. Ltd.

D-1, Sector-3, Priyadarshini Nagar,
Behind Vijeta Complex, Raipur-492006
Email- info.bhoomienvirotech@gmail.com
Web Site: www.bhoomienvirotech.co.in



TC-13412

Format No. - BEPL/QF/7.8/02

TEST REPORT

ULR	TC	1	3	4	1	2	2	5	0	0	0	0	0	1	4	4	2	F		
Report No.: BEPLTR20251021AAQ003										Date of Issue: 21.10.2025										
Name and Address of Customer*		Shambhavi Ispat, Village - Gerwani , Tehsil & Dist- Raigarh (C.G.)																		
Lab Sample ID.	BEPL/AAQ/2025101601/003										Customer Sample ID*	AAQ-03								
Sample Description*	Ambient Air Sample										Sampling Done By	BEPL Staff								
Sampling Location*	Near Labor Colony										Date of Sampling	15.10.2025								
Sampling Method	As Per CPCB Guideline (Vol.1)										Duration of Sampling	24 hr.								
Environment Condition During Testing	Temp. (°C) - 24.9°C Humidity (% RH) - 52 %										Environment Condition During Sampling		Temp. (°C)							
													Min.- 24°C				Max.- 31°C			
													Humidity (% RH)							
													Min.- 56 %				Max.- 88 %			
Sample Quantity Received	PM10 (F.P. x 03 Nos.), PM 2.5 (F.P. x 01 Nos.), SO ₂ x 01 FVC Bottle , NO ₂ x 01 FVC Bottle,																			
Date of Sample Received	16.10.2025										Analysis Duration	16.10.2025 to 17.10.2025								

ANALYSIS RESULT

Sr. No.	Parameter	Unit	Result	Limit (As per NAAQS)	Method Reference
1	Particulate Matter (PM ₁₀)	µg/m ³	72.66	100	IS 5182 (P-23) RA 2022
2	Particulate Matter (PM _{2.5})	µg/m ³	35.10	50	IS 5182 (P-24) RA 2024
3	Sulphur Dioxide (SO ₂)	µg/m ³	13.73	80	IS 5182 (P-2/Sec 1) RA 2023
4	Nitrogen Dioxide (NO ₂)	µg/m ³	18.64	80	IS 5182 (P-6) RA 2022

Note:

- The results given above are related to the tested sample, as received & mentioned parameters.
- The customer asked for the above tests only.
- When the information is supplied by the customer these can affect the validity of results.
- Asterisk mark(*) provided by the customer
- This test report shall not be reproduced without the permission of Bhoomi Envirotech Pvt. Ltd. (BEPL)
- The test report will not be used for any publicity/legal purpose.
- Responsibility of the BEPL is limited to the invoiced amount only.



21/10/25
(Ritesh Kurhade)
Reviewed By



For, Bhoomi Envirotech Pvt. Ltd.

M. Sinha
21-10-25
(Meman Kumar Sinha)
Authorized Signatory

End of test report.



Bhoomi Envirotech Pvt. Ltd.

D-1, Sector-3, Priyadarshini Nagar,
Behind Vijeta Complex, Raipur-492006
Email- info.bhoomienvirotech@gmail.com
Web Site: www.bhoomienvirotech.co.in



TC-13412

Format No. - BEPL/QF/7.8/02

TEST REPORT

ULR	TC	1	3	4	1	2	2	5	0	0	0	0	0	1	4	4	3	F
Report No.: BEPLTR20251021AAQ004										Date of Issue: 21.10.2025								
Name and Address of Customer*	Shambhavi Ispat, Village - Gerwani , Tehsil 6, Dist- Raigarh (C.G.)																	
Lab Sample ID.	BEPL/AAQ/2025101601/004									Customer Sample ID*				AAQ-04				
Sample Description*	Ambient Air Sample									Sampling Done By				BEPL Staff				
Sampling Location*	Near Sub Station Area									Date of Sampling				15.10.2025				
Sampling Method	As Per CPCB Guideline (Vol.1)									Duration of Sampling				24 hr.				
Environment Condition During Testing	Temp. (°C) - 24.9°C Humidity (% RH) - 52 %									Environment Condition During Sampling				Temp. (°C) Min. - 24°C Max. - 31°C Humidity (% RH) Min. - 56 % Max. - 88 % Weather Condition- Sunny				
Sample Quantity Received	PM10 (F.P. x 03 Nos.), PM 2.5 (F.P. x 01 Nos.), SO2 x 01 PVC Bottle , NO2 x 01 FVC Bottle,																	
Date of Sample Received	16.10.2025									Analysis Duration				16.10.2025 to 17.10.2025				

ANALYSIS RESULT

Sr. No.	Parameter	Unit	Result	Limit (As per NAAQS)	Method Reference
1	Particulate Matter (PM ₁₀)	µg/m ³	80.88	100	IS 5182 (P-23) RA 2022
2	Particulate Matter (PM _{2.5})	µg/m ³	43.82	60	IS 5182 (P-24) RA 2024
3	Sulphur Dioxide (SO ₂)	µg/m ³	19.01	80	IS 5182 (P-2/Sec 1) RA 2023
4	Nitrogen Dioxide (NO ₂)	µg/m ³	25.32	80	IS 5182 (P-6) RA 2022

Note:

- The results given above are related to the tested sample, as received & mentioned parameters.
- The customer asked for the above tests only.
- When the information is supplied by the customer these can affect the validity of results.
- Asterisk mark(*) provided by the customer
- This test report shall not be reproduced without the permission of Bhoomi Envirotech Pvt. Ltd. (BEPL)
- The test report will not be used for any publicity/legal purpose.
- Responsibility of the BEPL is limited to the invoiced amount only



[Signature]
(Ritesh Kurhade)
Reviewed By



For, Bhoomi Envirotech Pvt. Ltd.

[Signature]
21-10-25
(Meman Kumar Sinha)
Authorized Signatory

*****End of test report*****



Bhoomi Envirotech Pvt. Ltd.

D-1, Sector-3, Priyadarshini Nagar,
Behind Vijeta Complex, Raipur-492006
Email- info.bhoomienvirotech@gmail.com
Web Site: www.bhoomienvirotech.co.in



TC-13412

Format No. - BEPL/QF/7.0/04

TEST REPORT

ULR	TC	1	3	4	1	2	2	5	0	0	0	0	0	1	4	4	4	F
Report No.: BEPLTR20251021ST005										Date of Issue: 21.10.2025								
Name and Address of Customer*		Shambhavi Ispat, Village - Gerwani , Tehsil & Dist- Raigarh (C.G.)																
Lab Sample ID.	BEPL/ST/2025101601/005								Customer Sample ID*				ST-01					
Sample Description*	Stack								Sampling Done By				BEPL Staff					
Sampling Location*	SMS Division								Date of Sampling				15.10.2025					
Environment Condition During Testing	Temp. (°C) - 24.9°C								Environment Condition During Sampling				Temp. (°C)					
	Humidity (% RH) - 52 %												Min.- 24°C Max.- 31°C					
													Humidity(% RH)					
													Min.- 56 % Max.- 88 %					
Sample Quantity Received		PM (Thimble. x 01 Nos.), SO ₂ x 02 PVC Bottle , NO _x as NO ₂ x 01 Nos.																
Sampling Method		As Per CPCB Guideline (LATS/80/2013-2014)																
Date of Sample Received		16.10.2025								Analysis Duration				16.10.2025 to 17.10.2025				

ANALYSIS RESULT

Stack Attached to	: Induction Furnace				
Type of fuel used	: Electrically operated				
Stack height above the ground	: 40 mtr.				
Stack Inner dia at Port Hole	: 1.2 mtr				
Material of construction	: MS				
Time of Sampling (in Minute)	: 36 Minute				
Attached APCS	: Bag Filter				
Ambient Temperature	: 31°C				
Flue Gas Temperature	: 67°C				
Velocity of Flue Gas	: 7.5 m/s				
Volume of Flue Gas Flow Rate	: 26653.2 Nm ³ /hr				

Sr. No	Parameter	Unit	Result	Limits as per Consent	Test Method
1	Particulate Matter (PM)	mg/Nm ³	12.86	30	IS 11255 (P-1), RA 2019
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	5.57	--	IS 11255 (P-2), RA 2019
3	Oxides of Nitrogen (NO _x as NO ₂)	mg/Nm ³	10.26	--	IS 11255 (P-7), RA 2022

Note:

- The results given above are related to the tested sample, as received & mentioned parameters.
- The customer asked for the above tests only.
- When the information is supplied by the customer these can affect the validity of results.
- Asterisk mark(*) provided by the customer
- This test report shall not be reproduced without the permission of Bhoomi Envirotech Pvt. Ltd. (BEPL)
- The test report will not be used for any publicity/legal purpose.
- Responsibility of the BEPL is limited to the invoiced amount only.



21/10/25
(Ritesh Kurhade)
Reviewed By



For, Bhoomi Envirotech Pvt. Ltd.

M. Singh
21-10-25
(Meman Kumar Sinha)
Authorized Signatory

End of test report.



Bhoomi Envirotech Pvt. Ltd.

D-1, Sector-3, Priyadarshini Nagar,
Behind Vijeta Complex, Raipur-492006
Email: info.bhoomienvirotech@gmail.com
Web Site: www.bhoomienvirotech.co.in



TC-13412

Format No. - BEPL/QF/7.8/02

TEST REPORT

ULR	TC	1	3	4	1	2	2	6	0	0	0	0	0	1	0	6	F	
Report No.: BEPLTR20260208AAQ001									Date of Issue: 08.02.2026									
Name and Address of Customer*		Shambhavi Ispat, Village - Gerwani, Tehsil & Dist- Raigarh (C.G.)																
Lab Sample ID.	BEPL/AAQ/2026020602/001								Customer Sample ID*	AAQ-01								
Sample Description*	Ambient Air Sample								Sampling Done By	BEPL Staff								
Sampling Location*	Near Admin Office								Date of Sampling	05.02.2026								
Sampling Method	As Per CPCB Guideline (Vol.1)								Duration of Sampling	24 hr.								
Environment Condition During Testing	Temp. (°C) - 24.9°C Humidity (% RH) - 50 %								Environment Condition During Sampling		Temp. (°C)							
											Min. - 18°C				Max. - 33°C			
											Humidity (% RH)							
											Min. - 21 %				Max. - 55 %			
Sample Quantity Received		PM10 (F.P. x 03 Nos.), PM 2.5 (F.P. x 01 Nos.), SO2 x 01 PVC Bottle, NO2 x 01 PVC Bottle,																
Date of Sample Received	06.02.2026								Analysis Duration	06.02.2026 to 07.02.2026								

ANALYSIS RESULT

Sr. No.	Parameter	Unit	Result	Limit (As per NAAQS)	Method Reference
1	Particulate Matter (PM ₁₀)	µg/m ³	72.15	100	IS 5182 (P-23) RA 2022
2	Particulate Matter (PM _{2.5})	µg/m ³	39.07	60	IS 5182 (P-24) RA 2024
3	Sulphur Dioxide (SO ₂)	µg/m ³	10.34	80	IS 5182 (P-2/Sec 1) RA 2023
4	Nitrogen Dioxide (NO ₂)	µg/m ³	17.58	80	IS 5182 (P-6) RA 2022

Note:

- The results given above are related to the tested sample, as received & mentioned parameters.
- The customer asked for the above tests only.
- When the information is supplied by the customer these can affect the validity of results.
- Asterisk mark(*) provided by the customer
- This test report shall not be reproduced without the permission of Bhoomi Envirotech Pvt. Ltd. (BEPL)
- The test report will not be used for any publicity/legal purpose.
- Responsibility of the BEPL is limited to the Invoked amount only



<i>P. Y. 08/02/26</i> (Ritesh Kurhade) Reviewed By	For, Bhoomi Envirotech Pvt. Ltd. <i>M. Singh</i> 08-02-26 (Meman Kumar Sinha) Authorized Signatory
--	--

*****End of test report.*****



Bhoomi Envirotech Pvt. Ltd.

D-1, Sector-3, Priyadarshini Nagar,
Behind Vijeta Complex, Raipur-492006
Email- info.bhoomienvirotech@gmail.com
Web Site: www.bhoomienvirotech.co.in



TC-13412

Format No. - BEPL/QF/7.8/02

TEST REPORT

ULR	TC	1	3	4	1	2	2	6	0	0	0	0	0	1	0	7	F
Report No. : BEPLTR20260208AAQ002									Date of Issue: 08.02.2026								
Name and Address of Customer*		Shambhavi Ispat, Village - Gerwani , Tehsil & Dist- Raigarh (C.G.)															
Lab Sample ID.		BEPL/AAQ/2026020602/002								Customer Sample ID*		AAQ-02					
Sample Description*		Ambient Air Sample								Sampling Done By		BEPL Staff					
Sampling Location*		Near Main Gate								Date of Sampling		05.02.2026					
Sampling Method		As Per CPCB Guideline (Vol.1)								Duration of Sampling		24 hr.					
Environment Condition During Testing		Temp. (°C) - 24.9°C Humidity (% RH) - 50 %								Environment Condition During Sampling		Temp. (°C)					
												Min.- 18°C			Max.- 33°C		
												Humidity (% RH)					
												Min.- 21 %			Max.- 55 %		
Sample Quantity Received		PM10 (F.P. x 03 Nos.), PM 2.5 (F.P. x 01 Nos.), SO2 x 01 PVC Bottle , NO2 x 01 PVC Bottle,															
Date of Sample Received		06.02.2026								Analysis Duration		06.02.2026 to 07.02.2026					

ANALYSIS RESULT

Sr. No.	Parameter	Unit	Result	Limit (As per NAAQS)	Method Reference
1	Particulate Matter (PM ₁₀)	µg/m ³	83.13	100	IS 5182 (P-23) RA 2022
2	Particulate Matter (PM _{2.5})	µg/m ³	40.03	60	IS 5182 (P-24) RA 2024
3	Sulphur Dioxide (SO ₂)	µg/m ³	15.55	80	IS 5182 (P-2/Sec 1) RA 2023
4	Nitrogen Dioxide (NO ₂)	µg/m ³	22.77	80	IS 5182 (P-6) RA 2022

Note:

- The results given above are related to the tested sample, as received & mentioned parameters.
- The customer asked for the above tests only.
- When the information is supplied by the customer these can affect the validity of results.
- Asterisk mark(*) provided by the customer
- This test report shall not be reproduced without the permission of Bhoomi Envirotech Pvt. Ltd. (BEPL)
- The test report will not be used for any publicity/legal purpose.
- Responsibility of the BEPL is limited to the invoked amount only



 (Ritesh Kurhade) Reviewed By	For, Bhoomi Envirotech Pvt. Ltd. (Meman Kumar Sinha) Authorized Signatory
-------------------------------------	---

*****End of test report.*****



Bhoomi Envirotech Pvt. Ltd.

D-1, Sector-3, Priyadarshini Nagar,
Behind Vijeta Complex, Raipur-492006
Email- info.bhoomienvirotech@gmail.com
Web Site: www.bhoomienvirotech.co.in



TC-13412

Format No. - BEPL/QF/7.8/02

TEST REPORT

ULR	TC	1	3	4	1	2	2	6	0	0	0	0	0	0	1	0	8	F	
Report No.: BEPLTR20260208AAQ003										Date of Issue: 08.02.2026									
Name and Address of Customer*	Shambhavi Ispat, Village - Gerwani , Tehsil & Dist- Raigarh (C.G.)																		
Lab Sample ID.	BEPL/AAQ/2026020602/003								Customer Sample ID*				AAQ-03						
Sample Description*	Ambient Air Sample								Sampling Done By				BEPL Staff						
Sampling Location*	Near Labor Colony								Date of Sampling				05.02.2026						
Sampling Method	As Per CPCB Guideline [Vol.1]								Duration of Sampling				24 hr.						
Environment Condition During Testing	Temp. (°C) - 24.9°C Humidity (% RH) - 50 %								Environment Condition During Sampling				Temp. (°C)						
													Min.- 18°C		Max.- 33°C				
													Humidity (% RH)						
													Min.- 21 %		Max.- 55 %				
Sample Quantity Received	PM10 (F.P. x 03 Nos.), PM 2.5 (F.P. x 01 Nos.), SO2 x 01 PVC Bottle , NO2 x 01 PVC Bottle,																		
Date of Sample Received	06.02.2026								Analysis Duration				06.02.2026 to 07.02.2026						

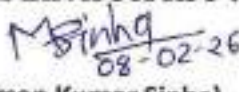
ANALYSIS RESULT

Sr. No.	Parameter	Unit	Result	Limit (As per NAAQS)	Method Reference
1	Particulate Matter (PM ₁₀)	µg/m ³	78.35	100	IS 5182(P-23) RA 2022
2	Particulate Matter (PM _{2.5})	µg/m ³	38.80	60	IS 5182(P-24) RA 2024
3	Sulphur Dioxide (SO ₂)	µg/m ³	14.40	80	IS 5182(P-2/Sec 1) RA 2023
4	Nitrogen Dioxide (NO ₂)	µg/m ³	20.96	80	IS 5182(P-6) RA 2022

Note:

- The results given above are related to the tested sample, as received & mentioned parameters.
- The customer asked for the above tests only.
- When the information is supplied by the customer these can affect the validity of results.
- Asterisk mark(*) provided by the customer
- This test report shall not be reproduced without the permission of Bhoomi Envirotech Pvt. Ltd. (BEPL)
- The test report will not be used for any publicity/legal purpose.
- Responsibility of the BEPL is limited to the invoiced amount only



 (Ritesh Kurhade) Reviewed By	For, Bhoomi Envirotech Pvt. Ltd.  (Meman Kumar Sinha) Authorized Signatory
--	---

.....End of test report.....



Bhoomi Envirotech Pvt. Ltd.

D-1, Sector-3, Priyadarshini Nagar,
Behind Vijeta Complex, Raipur-492006
Email- info.bhoomienvirotech@gmail.com
Web Site: www.bhoomienvirotech.co.in



TC-13412

Format No. - BEPL/QF/7.8/02

TEST REPORT

ULR	TC	1	3	4	1	2	2	6	0	0	0	0	0	1	0	9	F
Report No.: BEPLTR20260208AAQ004									Date of Issue: 08.02.2026								
Name and Address of Customer*	Shambhavi Ispat, Village - Gerwani, Tehsil & Dist- Raigarh (C.G.)																
Lab Sample ID.	BEPL/AAQ/2026020602/004									Customer Sample ID*				AAQ-04			
Sample Description*	Ambient Air Sample									Sampling Done By				BEPL Staff			
Sampling Location*	Near Sub Station Area									Date of Sampling				05.02.2026			
Sampling Method	As Per CPCB Guideline (Vol.1)									Duration of Sampling				24 hr.			
Environment Condition During Testing	Temp. (°C) - 24.9°C Humidity (% RH) - 50 %									Environment Condition During Sampling				Temp. (°C) Min.- 18°C Max.- 33°C Humidity (% RH) Min.- 21 % Max.- 55 % Weather Condition- Sunny			
Sample Quantity Received	PM10 (F.P. x 03 Nos.), PM 2.5 (F.P. x 01 Nos.), SO2 x 01 PVC Bottle , NO2 x 01 PVC Bottle,																
Date of Sample Received	06.02.2026									Analysis Duration				06.02.2026 to 07.02.2026			

ANALYSIS RESULT

Sr. No.	Parameter	Unit	Result	Limit (As per NAAQS)	Method Reference
1	Particulate Matter (PM ₁₀)	µg/m ³	79.04	100	IS 5182 (P-23) RA 2022
2	Particulate Matter (PM _{2.5})	µg/m ³	44.20	60	IS 5182 (P-24) RA 2024
3	Sulphur Dioxide (SO ₂)	µg/m ³	19.19	80	IS 5182 (P-2/sec 1) RA 2023
4	Nitrogen Dioxide (NO ₂)	µg/m ³	28.17	80	IS 5182 (P-6) RA 2022

Note:

- The results given above are related to the tested sample, as received & mentioned parameters.
- The customer asked for the above tests only.
- When the information is supplied by the customer these can affect the validity of results.
- Asterisk mark(*) provided by the customer
- This test report shall not be reproduced without the permission of Bhoomi Envirotech Pvt. Ltd. (BEPL)
- The test report will not be used for any publicity/legal purpose.
- Responsibility of the BEPL is limited to the invoiced amount only



For, Bhoomi Envirotech Pvt. Ltd.

M. Sinha
08-02-26

(Meman Kumar Sinha)
Authorized Signatory

08/02/26
(Ritesh Kurhade)
Reviewed By

*****End of test report*****



Bhoomi Envirotech Pvt. Ltd.

D-1, Sector-3, Priyadarshini Nagar,
Behind Vijeta Complex, Raipur-492006
Email- info.bhoomienvirotech@gmail.com
Web Site: www.bhoomienvirotech.co.in



TC-13412

Format No. - BEPL/QF/7.8/04

TEST REPORT

ULR	TC	1	3	4	1	2	2	6	0	0	0	0	0	0	1	1	0	F
Report No.: BEPLTR20260208ST005										Date of Issue: 08.02.2026								
Name and Address of Customer*		Shambhavi Ispat, Village - Gerwani, Tehsil & Dist- Raigarh (C.G.)																
Lab Sample ID.		BEPL/ST/2026020602/005							Customer Sample ID*		ST-01							
Sample Description*		Stack							Sampling Done By		BEPL Staff							
Sampling Location*		SMS Division							Date of Sampling		05.02.2026							
Environment Condition During Testing		Temp. (°C) - 24.9°C Humidity (% RH) - 50 %							Environment Condition During Sampling		Temp. (°C)							
											Min. - 18°C Max. - 33°C							
											Humidity (% RH)							
											Min. - 21 % Max. - 55 %							
Sample Quantity Received		PM (Thimble. x 01 Nos.), SO ₂ x 02 PVC Bottle, NO _x as NO ₂ x 01 Nos. NO _x Apparatus																
Sampling Method		As Per CPCB Guideline (LATS/80/2013-2014)																
Date of Sample Received		06.02.2026							Analysis Duration		06.02.2026 to 07.02.2026							

ANALYSIS RESULT

Stack Attached to : Induction Furnace
Type of fuel used : Electrically operated
Stack height above the ground : 40 mtr.
Stack Inner dia at Port Hole : 1.2 mtr
Material of construction : MS
Time of Sampling (in Minute) : 36 Minute
Attached APCS : Bag Filter
Ambient Temperature : 33°C
Flue Gas Temperature : 76°C
Velocity of Flue Gas : 7.7 m/s
Volume of Flue Gas Flow Rate : 26916.6 Nm³/hr

Sr. No	Parameter	Unit	Result	Limits as per Consent	Test Method
1	Particulate Matter (PM)	mg/Nm ³	13.93	30	IS 11255 (P-1), RA 2019
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	6.44	--	IS 11255 (P-2), RA 2019
3	Oxides of Nitrogen (NO _x as NO ₂)	mg/Nm ³	11.05	--	IS 11255 (P-7), RA 2022

Note:

- The results given above are related to the tested sample, as received & mentioned parameters.
- The customer asked for the above tests only.
- When the information is supplied by the customer these can affect the validity of results.
- Asterisk mark(*) provided by the customer
- This test report shall not be reproduced without the permission of Bhoomi Envirotech Pvt. Ltd. (BEPL)
- The test report will not be used for any publicity/legal purpose.
- Responsibility of the BEPL is limited to the invoked amount only



Ritesh Kurhade
(Ritesh Kurhade)
Reviewed By

For, Bhoomi Envirotech Pvt. Ltd.

(Meman Kumar Sinha)
Authorized Signatory

*****End of test report*****



Bhoomi Envirotech Pvt. Ltd.

D-1, Sector-3, Priyadarshini Nagar,
Behind Vijeta Complex, Raipur-492006
Email- info.bhoomienvirotech@gmail.com
Web Site: www.bhoomienvirotech.co.in

TEST REPORT

Report No.: BEPLTR20260208FE002		Date of Issue: 08.02.2026		
Name and Address of Customer*	Shambhavi Ispat, Village - Gerwani , Tehsil & Dist- Raigarh (C.G.)			
Lab Sample ID	BEPL/FB/2026020602/005-008	Customer Sample ID*	FE-01-04	
Sample Description*	Fugitive Emission Monitoring	Sample Collected By	BEPL Staff	
Date of Sampling	05.02.2026	Duration of Sampling	4 hr.	
Environment Condition for Laboratory Testing	Temp. (°C) - 24.9°C Humidity (% RH)- 50 %	Environment Condition During Sampling	Temp. (°C)	
			Min.- 18°C	Max.- 33°C
			Humidity(% RH)	
			Min.- 21 %	Max.- 55 %
Sample Quantity Received	SPM (F.P. x 01 Nos.) Each Location			
Date of Sample Received	06.02.2026	Analysis Duration	06.02.2026 to 07.02.2026	
		Weather Condition- Sunny		

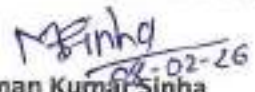
ANALYSIS RESULT

Sr. No.	Sampling Location	Unit	Test Method	Suspended Particulate Matter (SPM)
1	Near Rolling Mill	µg/m3	IS : 5182 (Part-4)	811.5
2	Near Crusher Area			920.7
3	Near Raw Material Area			752.9
4	Near Furnace Area			879.0
CPCB Standards				2000

Remark:

Note:

- The results given above are related to the tested sample, as received & mentioned parameters.
- The customer asked for the above tests only.
- When the information is supplied by the customer these can affect the validity of results.
- Asterisk mark(*) provided by the customer
- This test report shall not be reproduced without the permission of Bhoomi Envirotech Pvt. Ltd. (BEPL)
- The test report will not be used for any publicity/legal purpose.
- Responsibility of the BEPL is limited to the invoiced amount only

 (Ritesh Kurhade) Reviewed By	For, Bhoomi Envirotech Pvt. Ltd.  Meman Kumar Sinha (Authorized Signatory)
--	--

.....End of test report.....



Bhoomi Envirotech Pvt. Ltd.

D-1, Sector-3, Priyadarshini Nagar,
Behind Vijeta Complex, Raipur-492006
Email- info.bhoomienvirotech@gmail.com
Web Site: www.bhoomienvirotech.co.in

TEST REPORT

Report No.:BEPLTR20260208N001		Date of Issue:08.02.2026	
Name and Address of Customer*	Shambhavi Ispat, Village - Gerwani , Tehsil &,Dist- Raigarh (C.G.)		
Lab Sample ID	BEPL/N/2026020602/001-004	Customer Sample ID*	N-01-04
Sample Description*	Ambient Noise	Monitoring Done By	BEPL Staff
Monitoring Procedure	As Per IS 9989 & CPCB Guidelines		
Weather Condition	Sunny	Environment Condition During Sampling	Temp. (°C)
			Min.- 18°C Max.- 33°C
			Humidity(% RH)
			Min.- 21 % Max.- 55 %
Date of Sampling	05.02.2026	Duration of Sampling	24 hr.

MONITORING RESULT OF NOISE LEVEL

Sr. No.	Location	Observed Value dB(A)	
		Day Time	Night Time
1	Near Main Gate	67.1	56.9
2	Near Admin office	61.0	52.7
3	Near Labor Colony	61.9	56.0
4	Near Rolling Mill	73.4	62.1
Limit as per CPCB Standard (Industrial Area)			
Day Time - 75		Night Time - 70	

Note:

- The results given above are related to the tested sample, as received & mentioned parameters.
- The customer asked for the above tests only.
- When the information is supplied by the customer these can affect the validity of results.
- Asterisk mark (*) provided by the customer
- This test report shall not be reproduced without the permission of Bhoomi Envirotech Pvt. Ltd. (BEPL)
- The test report will not be used for any publicity/legal purpose.
- Responsibility of the BEPL is limited to the involved amount only

 (Ritesh Kurhade) Reviewed By	For, Bhoomi Envirotech Pvt. Ltd.  Meman Kumar Sinha Authorized Signatory
--	--

*****End of test report*****

ANNEXURE – V: PHOTOGRAPH OF FUGITIVE
EMISSION MEASURES

Photograph of Air Pollution Control System



PHOTOGRAPHS OF PUCCA INTERNAL ROAD



PHOTOGRAPHS OF COVERED VEHICLES



PHOTOGRAPHS OF COVERED SHED



ANNEXURE – VI: PHOTOGRAPH OF CCTV CEMARA

PHOTOGRAPH OF CCTv



ANNEXURE – VII: PHOTOGRAPH OF GARLAND DRAIN

PHOTOGRAPH OF GARLAND DRAIN



ANNEXURE – VIII: PHOTOGRAPHS OF WORKERS
WEARING PPE

PHOTOGRAPH OF WORKERS WERRING PPE



**ANNEXURE – IX: OCCUPATIONAL HEALTH
SURVEILLANCE RECORDS (FORM-21)**

FORM 21(Annexure)
[Prescribed Under Rule(19)]
Health Register

(In respect of persons employed in occupation declared to be dangerous operation under section 87)

PRE-EMPLOYMENT & PERIODIC MEDICAL EXAMINATION

Name : Rasham Rambir
Employee No. _____

Age (Years) : 26Y
Department : _____

✓ Date : 19/04/24
Male / Female :
Designation : _____

(1) GENERAL EXAMINATION:

Height 160 Cm. Weight 58 Kg. BMI _____
Chest Inspiration: _____ Cm. Expiration: _____ Cm.
BUILT-Average/Strong/Poor.
Throat _____ Tongue _____ Tonsils _____
Teeth (N) Gums (N) Thyroid (N)
Lymph Nodes _____
Additional Findings _____

(2) CARDIO-VASCULAR SYSTEM

Pulse: 90 /Min. Regular/Irregular/Peripheral Pulse-Felt/Not Felt
B.P.: 120/93 mm of Hg.
Heart Sound S1 S2 P
Murmur, If Any: _____
Additional Finding(S), If Any: No

(3) RESPIRATORY SYSTEM:P

Shape Of Chest: _____
Chest Movements: NAD
Trachea: _____
Breath Sounds: _____

(4) GASTRO-INTESTINAL SYSTEM

Liver: NP Spleen: NP
Any Abdominal Lumps: No

(5) EXAMINATION OF EYES:

External Exam: NAD Squint NO
Nystagmus: ✓
Colour Vision-Normal/Defective
Fundus(L) _____ (R) _____
Individual Colour Identification-Normal/Defective
Distant Vision(Without Glasses)

Right 6/6 Left 6/6
Near Vision(Without Glasses)
Right NG Left NG
With Glasses Right _____ Left _____
Night Blindness:(Nyctalopia): No

(6) EXAMINATION OF EAR, NOSE & THROAT

External Exam: _____

(7) GENITOURINARY SYSTEM:

Hernia: _____ Hydrocele _____ Vepricocoele (N)
Cryptorchidism: (N) Phimosis _____
Varicose Veins _____ Signs Of STD (N)

Other Examination For FEMALES:

Menstrual History
Menarche At ----- Yrs. Gravida -----
LMP -----
Menstrual Irregularity If Any: -----
Obstetric History
PARA -----

(8) LAB INVESTIGATIONS:

URINE: Albumin Nil Sugar Nil Microscopy ----- Stool -----
HAEMOGRAM

Blood Group A Rh factor +ve Hb 13.5 TLC 6580 RBC 5.01
DLC ----- PLEMB ----- Platelets Count 2.32

LIPID PROFILE

Serum Cholesterol 165 ;S/Triglycerides 121.6
HDL 48.2 ;LDL 92.48

HEPATIC PROFILE

SGPT 30.5 ;SGOT: 21.3
Alkaline Phosphatase: 78

RENAL PROFILE:

Blood Urea 28.5 ;S/Creatinine: 0.68

METABOLIC:

Blood Sugar-F ----- ;Blood Sugar-PP: -----
Uric Acid 5.1 ; RBS: 98.6

(9) OTHER INVESTIGATIONS:

X-ray Chest(In Normal persons once in three years -----)

In case of any abnormality x-ray can be done at shorter intervals)

ECG(In case of any abnormality further tests should be carried out) -----

Ultra Sound Whole Abdomen(In normal persons once in three years in case of any abnormality can be done at shorter intervals)

Others -----

(10) PULMONARY FUNCTION TEST

	FVC	FEV 1	FEV 1/FVC
Predicted	<u>3.15</u>	<u>2.72</u>	<u>86.35</u>
Measured	<u>2.77</u>	<u>2.63</u>	<u>94.95</u>
% of predicted	<u>88</u>	<u>97</u>	<u>110</u>

Remarks: -----

(11) Audiometry Examination-PTA of both ears at frequency of 125,250,500,1000,2000,4000,8000,cycles per second -----

(12) Medical Examination of canteen staff

- a- Blood examination for venereal disease and routine blood examination.
- b- Stool and urine examination for worm infection.
- c- Screening for skin diseases(Scabies and others)
- d- x-ray and other tests for T.B.

(13) Details of other specific medical examination carried out as mentioned in the respective schedules of rule 107 of C.G. Factories rules 1962-

Dr. Aharnish Agrawal

M.B.B.S. D.Ortho

Reg. No. CGMC 7691/2017

Signature (with Date) of
Factory Medical Officer

Dr. Sonali Sonali
MBBS
REG NO. 201457/2012
DIAGNOSTICS

ANUPAM DIAGNOSTICS

KOTRA ROAD, RAIGARH (C.G.)

Patient: ROSHAN RANBIR

Refd. By:

Pred. Eqns: RECORDERS

Date : 19-Apr-2024 10:22 AM

Age : 26 Yrs

Height : 160 Cms

Weight : 58 Kgs

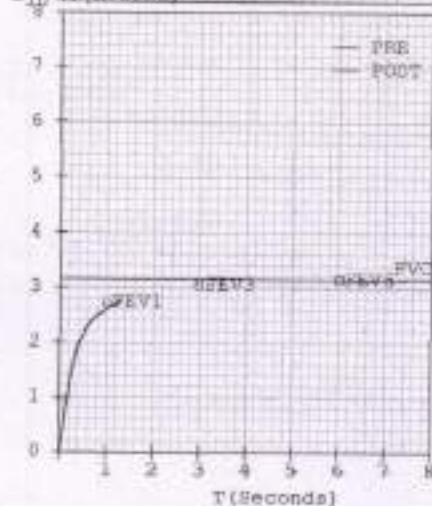
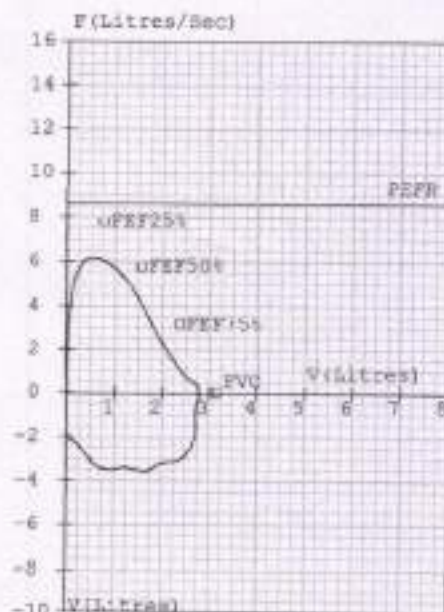
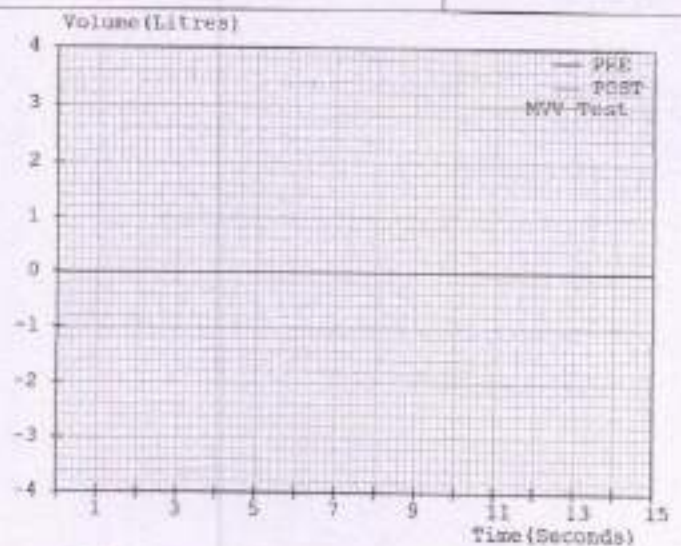
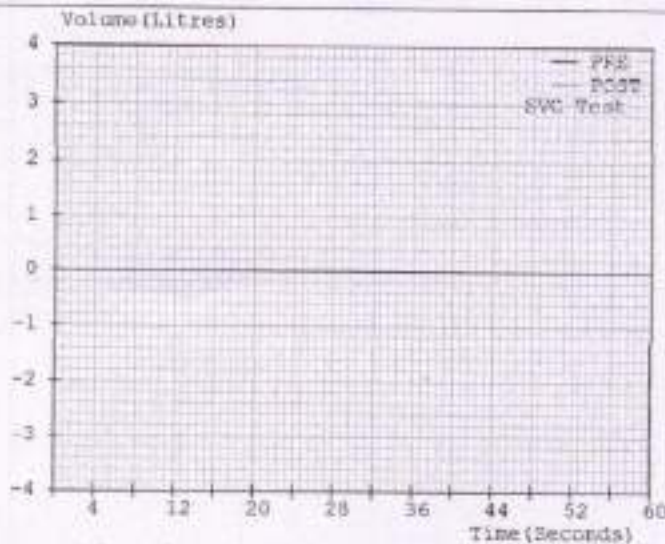
ID : 496

Gender : Male

Smoker : No

Eth. Corr: 100

Temp :



Spirometry Results

Parameter	Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC (L)	03.15	02.77	088	---	---	---
FEV1 (L)	02.72	02.63	097	---	---	---
FEV1/FVC (%)	86.35	94.95	110	---	---	---
FEF25-75 (L/s)	04.38	03.97	091	---	---	---
PEFR (L/s)	08.63	06.10	071	---	---	---
FIVC (L)	---	02.87	---	---	---	---
FEV.5 (L)	---	02.15	---	---	---	---
FEV3 (L)	03.05	02.77	091	---	---	---
PIFR (L/s)	---	03.52	---	---	---	---
PEF75-85 (L/s)	---	01.48	---	---	---	---
PEF.2-1.2 (L/s)	07.33	05.77	079	---	---	---
PEF 25% (L/s)	07.01	06.06	078	---	---	---
PEF 50% (L/s)	05.78	04.76	082	---	---	---
PEF 75% (L/s)	03.15	02.00	063	---	---	---
FEV.5/FVC (%)	---	77.62	---	---	---	---
FEV3/FVC (%)	96.83	100.00	103	---	---	---
PET (Sec)	---	01.36	---	---	---	---
ExptTime (Sec)	---	00.09	---	---	---	---
Lung Age (Yrs)	026	027	104	---	---	---
FEV6 (L)	03.15	---	---	---	---	---
FIF 25% (L/s)	---	03.20	---	---	---	---
FIF 50% (L/s)	---	03.37	---	---	---	---
FIF 75% (L/s)	---	03.10	---	---	---	---
SVC (L)	---	---	---	---	---	---
ERV (L)	01.45	---	---	---	---	---
IRV (L)	---	---	---	---	---	---
VE (L/min)	---	---	---	---	---	---
RI (l/min)	---	---	---	---	---	---
Ti (sec)	---	---	---	---	---	---
Te (sec)	---	---	---	---	---	---
VT (L)	---	---	---	---	---	---
VT/Ti	---	---	---	---	---	---
Ti/Ttot	---	---	---	---	---	---
IC (L)	---	---	---	---	---	---
MVV (L/min)	132	---	---	---	---	---
MBf (l/min)	---	---	---	---	---	---
MVT (L)	---	---	---	---	---	---

Dr. Sonal Kedia

MBBS, MD

REG NO. CGMC/4457/2012

ANUPAM DIAGNOSTICS

KOTRA ROAD RAIGARH (C.G.)



अनुपम डायग्नोस्टिक्स

Believe in the Best

डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम्.आई. हॉस्पिटल, रायपुर



राजधानी एसायम्पलर एच एचए मुम्बई का शाखा

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुदी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021
अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

टाटा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. ROSHAN RANBIR

Patient ID : S01

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:25 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:34 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

Lft, Liver Function Test

Bilirubin - Total	0.48	0.2-1.2	mg/dL
Bilirubin - Direct	0.20	0.2-1.0	mg/dL
Bilirubin - Indirect	0.28	0.2-0.8	mg/dL
SGOT	21.3	0-35	U/L
SGPT	30.5	0-45	U/L
Alkaline phosphatase	78	40-128	U/L
Total Protein	7.56	6.4 - 8.3	g/dL
Albumin	4.23	3.2 - 5.2	g/dL
Globulin	3.33	1.8 - 3.6	g/dL
A/G Ratio	1.27	1.2 - 2.2	

Dr. Sonal Kedia
MBBS, MD (PATHOLOGY)
REG NO: CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD, RAIPUR (C.G.)

Dr. Sonal Kedia
M.B.B.S., MD

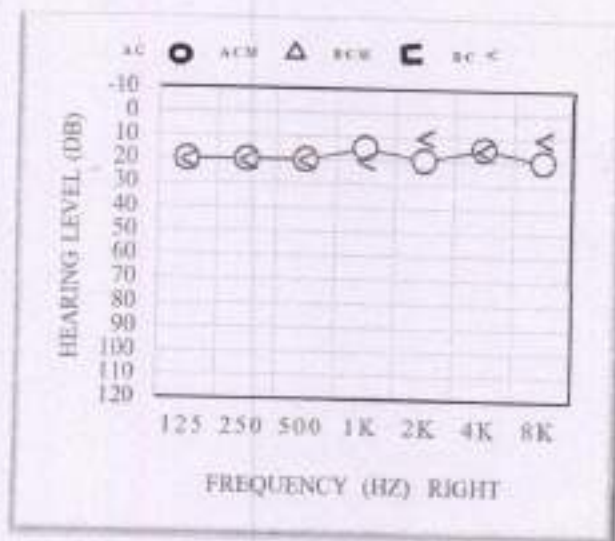
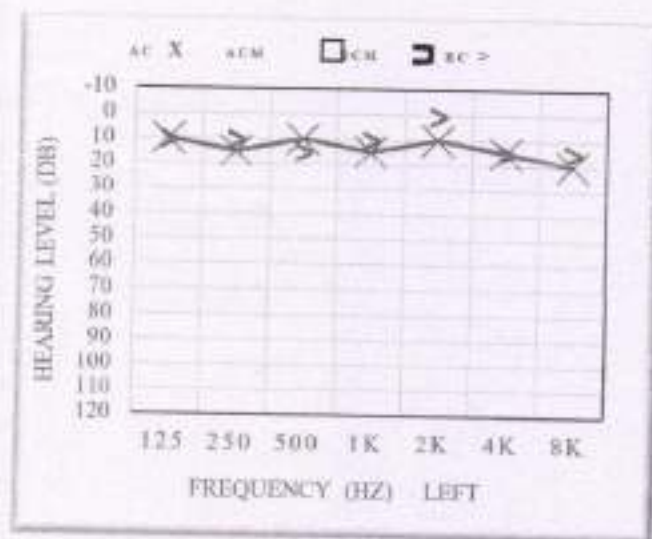
ANUPAM DIAGNOSTICS

AUDIOMETER : ANUPAM DIAGNOSTICS

REF. BY :

DATE:- 19.04.2024
NAME : ROSHAN RANBIR
AGE / SEX 26/M
COMPANY : SHAMBHAVI
S.NO. :

AUDIOGRAM



EAR \ MODE	AIR CONDUCTION		BONE CONDUCTION		COLOUR CODE	THRESHHOLD IN dB		LEFT	RIGHT
	MASKED	UNMASKED	MASKED	UNMASKED		AIR CONDUCTION			
LEFT	□	x	☞	>	BLUE	BONE CONDUCTION		11.66667	18.33333
RIGHT	△	○	☛	<	RED	SPEECH			
NO RESPONSE : ADD ↓ BELOW THE RESPECTIVE SYMBOLS									

REMARK :

Dr. Sonal Kedia

MBBS, MD

REG NO. DMC4457/2012

ANUPAM DIAGNOSTICS

NOTED BY: RANBIR (C & S)



अनुपम डायग्नोस्टिक्स

Believe in the Best

ISO 9001:2015
CERTIFIED CENTRE

डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्दप्रस्थ अस्पताल, दिल्ली

Ex. Consultant : एम.एच.आई. हॉस्पिटल, रायपुर



राजधानी एडवायस्ड एम.एच.आई. मुम्बई का शाखा,

सिटी हॉस्पिटल के आगे, कोवरा रोड,
सतीगुडी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

टाटा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. ROSHAN RANBIR

Patient ID : S01

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:25 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:35 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
kidney function test With Electrolyte			
Urea *	28.5	11 - 40	mg/dL
Blood Urea Nitrogen-BUN*	13.32	5 - 20	mg/dL
Creatinine*	0.68	0.5 - 1.2	mg/dL
Uric Acid*	5.1	3.5 - 7.0	mg/dL

Dr. Sonal Kedia
MBBS, MD (PATHOLOGIST)
REG NO. CGMC 4457/12
ANUPAM HOSPITAL CS
KOTRA ROAD
Dr. Sonal Kedia
M.B.B.S., MD

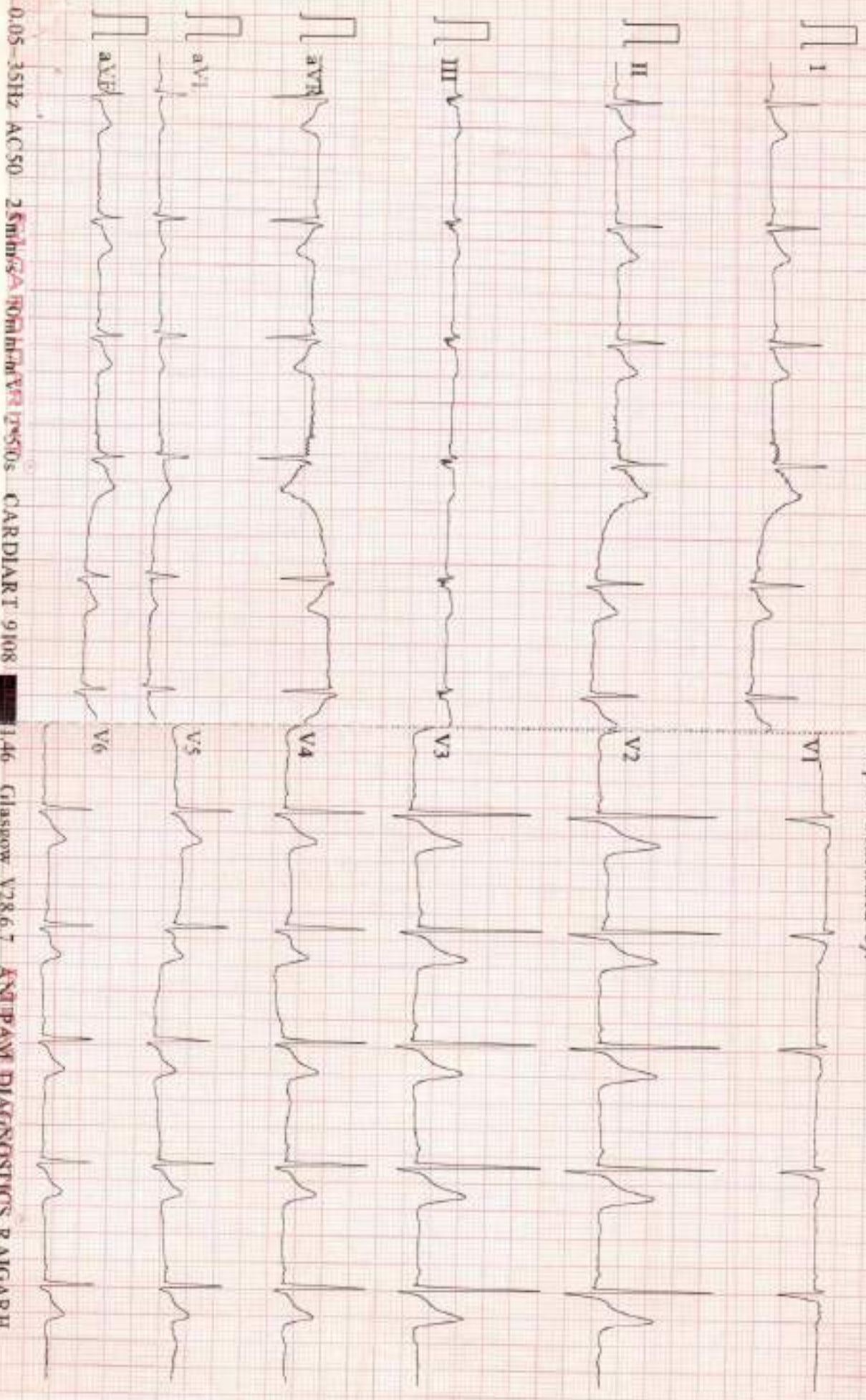
ID: 99681
Foshan Tanveer
Male 26 Years

19-04-2024 11:38:20 AM
HR : 67 bpm
P : 78 ms
PR : 126 ms
QRS : 94 ms
QT/QTcBz : 364/385 ms
PQRST : -427/43
RV5/SVI : 1.000/0.670 mV

Diagnosis Information:
Sinus rhythm
Normal ECG

Ref-Phys :
Report Confirmed by:

Dr. Sagar Khatke
ME 25-45
REG NO. GSNV 4451/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIGARH





अनुपम डायग्नोस्टिक्स

Believe in the Best

ISO 9001:2015
CERTIFIED CENTRE

डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्दप्रस्थ अजीती हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर



जबरापुर एडवायस्ड मेडि कलियुग का सागर,

सिटी हॉस्पिटल के आगे, कोटरा रोड,
सतीगुडी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राजा गैंगोख्यल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. ROSHAN RANBIR

Patient ID : S01

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:25 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:35 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
Cast	NIL	0-0	/HPF
Crystals	NIL		
Bacteria	NIL		
Other	NIL		

Dr. Sonal Kedia
MBBS, MD (PATHOLOGY)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD
Dr. Sonal Kedia
M.B.B.S., MD



अनुपम डायग्नोस्टिक्स

Believe in the Best

ISO 9001:2015
CERTIFIED CENTRE

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अस्पताल, दिल्ली

Ex. Consultant : एम.एन.जी. हॉस्पिटल, रायपुर



जम्हाती पञ्जीयन केस एम.एन.जी. पर रायपुर,

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राजीव गान्धी हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. ROSHAN RANBIR

Patient ID : S01

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:25 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:34 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
PLANT CBC			
Hemoglobin (Hb)*	13.5	13 - 18	gm/dL
Total Leucocytes (WBC) Count*	6580	4000 - 10000	cell/cu.mm
<u>Neutrophils</u>	60	40 - 80	%
<u>Lymphocytes</u>	35	20 - 40	%
Monocyte	3	2-10	%
<u>Eosinophils</u>	02	1 - 6	%
<u>Basophils</u>	0	0 - 1	%
<u>Platelet Count*</u>	2.32	1.5 - 4.5	lakh/cumm
<u>Erythrocyte (RBC) Count*</u>	5.01	4.7 - 6.0	mil/cu.mm
<u>RDW-SD</u>	42.1	37.0 - 54.0	f1
<u>RDW-CV</u>	13.2	11.6 - 14.0	

Dr. Sonal Kedia
MBBS, MD (PATHOLOGY)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD, RAIPUR
Dr. Sonal Kedia
M.B.B.S., MD



अनुपम डायग्नोस्टिक्स

Believe in the Best

ISO 9001:2015
CERTIFIED CENTRE

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

जयप्रकाश एम्बेल्सन्स चयन द्वारा चुना गया है रायगढ़,

सिटी हॉस्पिटल के आगे, कोतरा रोड,
अतीगढ़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राष्ट्र मेमोरियल हॉस्पिटल, मुंबई

Patient Name : MR. ROSHAN RANBIR

Patient ID : S01

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:25 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:35 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

Urine Routine Examination

Physical Examination

Volume	30	20 - 50	ml
Colour	pale yellow		
Appearance	Clear	Clear	
Reaction (pH)	6.0		
Specific gravity	1.020	1.003 - 1.030	

Chemical Examination

Urine Glucose (Sugar)	NIL
Urine Protein (Albumin)	NIL
Urine Ketones (Acetone)	Absent
Billurubin	NIL
Urobilinogen	Normal
Nitrite	NIL

Microscopic Examination

Epithelial Cells	2-4	0-2	/HPF
Pus Cell (WBCs)	0-2	0-2	/HPF
RBC	NIL	0-1	/HPF

Dr. Sonal Kedia
MBBS, MD (PATHOLOGY)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD
Dr. Sonal Kedia
M.B.B.S., M.D.



अनुपम डायग्नोस्टिक्स

Believe in the Best

ISO 9001:2015
CERTIFIED CENTRE

डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्दप्रस्थ अर्वाली हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर



जबराबाद पञ्जाब/पंजाब 151001 मुजफ्फर नगर रायपुर

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुडी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

टाटा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. ROSHAN RANBIR

Patient ID : S01

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:25 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 04:56 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

Blood Group ABO & Rh Typing, Blood

Blood Group (ABO typing)	A
RhD Factor (Rh Typing)	Positive

Dr. Sonal Kedia

MBBS, MD (PATHOLOGY)

REG NO. CGMC 4457/2012

ANUPAM DIAGNOSTICS

KOTRA ROAD RAIPUR (C.G.)

M.B.B.S., MD



अनुपम डायग्नोस्टिक्स

Believe in the Best

ISO 9001:2015
CERTIFIED CENTRE

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इण्डियन अर्थोपेडिक हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर



जयभारत एडवांस्ड एच.एल.एल.यू. पुकरण का सामान,

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राटा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेक्टर

Patient Name : MR. ROSHAN RANBIR

Patient ID : S01

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:25 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:36 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

2. Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol

3. As per NCEP guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

Dr. Sonal Kedia
MBBS, MD (PAT) Sonal
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIPUR
Dr. Sonal Kedia
M.B.B.S., MD



अनुपम डायग्नोस्टिक्स

ISO 9001:2015
CERTIFIED CENTRE

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एन.आई. हॉस्पिटल, रायपुर



जयपुराण एम्बुलेंस एम.एन.आई. रायपुराण, रायपुराण

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुडी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021
अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राजा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. ROSHAN RANBIR

Patient ID : S01

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:25 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:34 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

Random Blood Sugar (RBS)

Blood Glucose Random

98.6

70.00 - 160.00

mg/dL

Note

(if > 200 it is DM. (Atleast two occasion))

Dr. Sonal Kedia
MBBS, MD (PATHOLOGIST)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD, RAIPUR
Dr. Sonal Kedia
M.B.B.S., MD



अनुपम डायग्नोस्टिक

Believe in the Best

ISO 9001:2015
CERTIFIED CENTRE

डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अस्पताल, दिल्ली

Ex. Consultant : एम.एच.आई. हॉस्पिटल, रायपुर



जयपुरा एमआरएमएच एच हाथ पुष्पाग पर सामग,

सिटी हॉस्पिटल के आगे, कोतस रोड,
सतीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राजा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. ROSHAN RANBIR

Patient ID : S01

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:25 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:36 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

Lipid Profile

Cholesterol-Total	165	Desirable: ≤ 200 Borderline High: 200-239 High: > 240	mg/dL
Triglycerides	121.6	100-170	mg/dL
HDL Cholesterol	48.2	30-60	mg/dL
LDL Cholesterol	92.48	Optimal < 100 Near / Above Optimal 100-129 Borderline High 130-159 High 160-189 Very High ≥ 190	mg/dL
VLDL Cholesterol	24.32	5-40	
CHOL/HDL Ratio	3.42	1.0-4.4	
LDL/HDL Ratio	1.92	0.50-3.00	

Note

1. 8-10 hours fasting sample is required.

Dr. Sonal Kedia
MBBS, MD (PATHOLOGIST)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTIC
KOTRA 37M
Dr. Sonal Kedia
M.B.B.S., MD

FORM 21(Annexure)
[Prescribed Under Rule(19)]
Health Register

(In respect of persons employed in occupation declared to be dangerous operation under section 87)

PRE-EMPLOYMENT & PERIODIC MEDICAL EXAMINATION

Name : Anand Mahapatra Age (Years) : 267
Employee No. Department :

Date : 19/04/22
Male / Female :
Designation :

(1) GENERAL EXAMINATION:

Height 157 Cm. Weight 57 Kg. BMI _____
Chest Inspiration: _____ Cm. Expiration: _____ Cm.
BUILT-Average/Strong/Poor.
Throat _____ Tongue _____ Tonsils _____
Teeth (N) Gums (N) Thyroid (N)
Lymph Nodes _____
Additional Findings _____

(2) CARDIO-VASCULAR SYSTEM

Pulse: 80 /Min. Regular/Irregular/Peripheral Pulse-Felt/Not Felt
B.P.: 125/92 mm of Hg. grip
Heart Sound _____
Murmur, If Any: _____
Additional Finding(S), If Any: NO

(3) RESPIRATORY SYSTEM:P

Shape Of Chest: _____
Chest Movements: NAD
Trachea: _____
Breath Sounds: _____

(4) GASTRO-INTESTINAL SYSTEM

Liver: NAD Spleen: NAD
Any Abdominal Lumps: NO

(5) EXAMINATION OF EYES:

External Exam: NAD Squint NO
Nystagmus: ✓
Colour Vision-Normal/Defective
Fundus(L) _____ (R) _____
Individual Colour Identification-Normal/Defective
Distant Vision(Without Glasses)

Right 6/6 Left 6/6
Near Vision(Without Glasses)
Right NG Left NG
With Glasses Right _____ Left _____
Night Blindness:(Nyctalopia): NO

(6) EXAMINATION OF EAR, NOSE & THROAT

External Exam: _____

(7) GENITOURINARY SYSTEM:

Hernia: _____ Hydrocele _____ Vepricocele _____
Cryptorchidism: (N) Phimosis (N)
Varicose Veins _____ Signs Of STD (N)

Other Examination For FEMALES:

Menstrual History
Menarche At ----- Yrs. Gravida _____ PARA _____
LMP _____
Menstrual Irregularity If Any: _____

(8) LAB INVESTIGATIONS:

URINE: Albumin Nil Sugar Nil Microscopy _____ Stool _____
HAEMOGRAM

Blood Group O Rh factor +ve Hb 13.6 TLC 7540 RBC 5.12
DLC _____ PLEMB _____ Platelets Count 2.32

LIPID PROFILE

Serum Cholesterol 155 :S/Triglycerides 121.3
HDL 46.2 :LDL 84.54

HEPATIC PROFILE

SGPT 32.5 :SGOT: 21.3
Alkaline Phosphatase: 78

RENAL PROFILE:

Blood Urea 30.5 :S/Creatinine: 0.72

METABOLIC:

Blood Sugar-F _____ :Blood Sugar-PP: _____
Uric Acid 5.1 : RBS: 99.3

(9) OTHER INVESTIGATIONS:

X-ray Chest(In Normal persons once in three years _____)

In case of any abnormality x-ray can be done at shorter intervals)

ECG(In case of any abnormality further tests should be carried out) _____

Ultra Sound Whole Abdomen(In normal persons once in three years in case of any abnormality can be done at shorter intervals)

Others _____

(10) PULMONARY FUNCTION TEST

	FVC	FEV 1	FEV 1/FVC
Predicted	<u>3.00</u>	<u>2.60</u>	<u>86.67</u>
Measured	<u>2.62</u>	<u>2.41</u>	<u>91.92</u>
% of predicted	<u>87</u>	<u>93</u>	<u>106</u>

Remarks:

(11) **Audiometry Examination**-PTA of both ears at frequency of 125,250,500,1000,2000,4000,8000,cycles per second

(12) **Medical Examination of canteen staff**

- a-Blood examination for venereal disease and routine blood examination.
- b- Stool and urine examination for worm infection.
- c- Screening for skin diseases(Scabies and others)
- d- x-ray and other tests for T.B.

(13) **Details of other specific medical examination carried out as mentioned in the respective schedules of rule 107 of C.G. Factories rules 1962-**

Dr. Sonal Kedia

MBBS, MD

REG NO. 2010457/2012
ANIPAL DIAGNOSTICS

Signature (with Date) of
Factory Medical Officer

ANUPAM DIAGNOSTICS

KOTRA ROAD, RAIGARH (C.G.)

Patient: ANAND MAHAPATRA

Refd. By:

Pred. Eqns: RECORDERS

Date : 19-Apr-2024 10:23 AM

Age : 26 Yrs

Height : 157 Cms

Weight : 51 Kgs

ID : 497

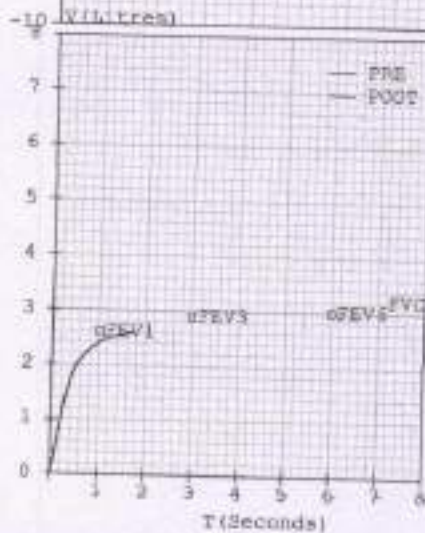
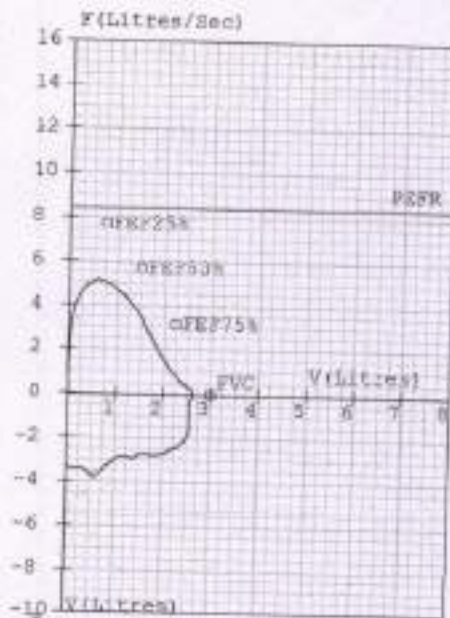
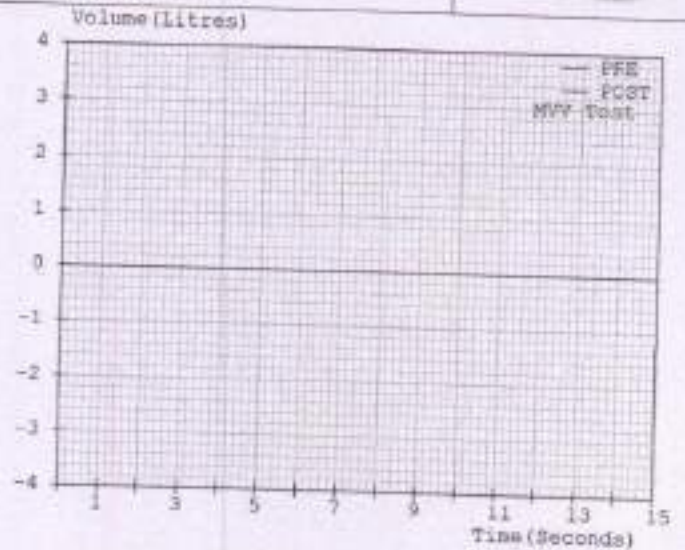
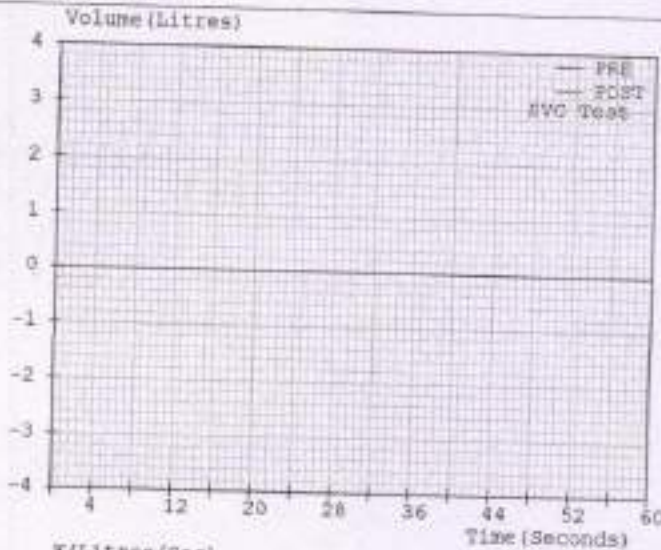
Gender : Male

Smoker : No

Eth. Corr: 100

Temp :

RMS



Spirometry Results

Parameter	Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC (L)	03.00	02.62	087	---	---	---
FEV1 (L)	02.60	02.41	093	---	---	---
FEV1/FVC (%)	86.67	91.98	106	---	---	---
FEF25-75 (L/s)	04.32	03.40	079	---	---	---
PEFR (L/s)	08.42	05.11	061	---	---	---
FIVC (L)	---	02.87	---	---	---	---
FEV.5 (L)	---	01.94	---	---	---	---
FEV3 (L)	02.91	02.62	090	---	---	---
PIFR (L/s)	---	03.77	---	---	---	---
PEF75-85 (L/s)	---	01.15	---	---	---	---
PEF.2-1.2 (L/s)	07.18	04.76	066	---	---	---
PEF 25% (L/s)	07.70	05.06	066	---	---	---
PEF 50% (L/s)	05.70	04.06	071	---	---	---
PEF 75% (L/s)	03.11	01.61	052	---	---	---
FEV.5/FVC (%)	---	74.05	---	---	---	---
FEV3/FVC (%)	97.00	100.00	103	---	---	---
FBT (Sec)	---	01.73	---	---	---	---
ExptTime (Sec)	---	00.11	---	---	---	---
Lung Age (Yrs)	026	028	108	---	---	---
FEV6 (L)	03.00	---	---	---	---	---
FIF 25% (L/s)	---	02.71	---	---	---	---
FIF 50% (L/s)	---	03.10	---	---	---	---
FIF 75% (L/s)	---	03.36	---	---	---	---
SVC (L)	---	---	---	---	---	---
ERV (L)	01.42	---	---	---	---	---
IRV (L)	---	---	---	---	---	---
Vn (L/min)	---	---	---	---	---	---
Rf (l/min)	---	---	---	---	---	---
Ti (sec)	---	---	---	---	---	---
Te (sec)	---	---	---	---	---	---
VT (L)	---	---	---	---	---	---
VI/TI	---	---	---	---	---	---
TI/Ttot	---	---	---	---	---	---
IC (L)	---	---	---	---	---	---
MVV (L/min)	129	---	---	---	---	---
MRE (l/min)	---	---	---	---	---	---
MVT (L)	---	---	---	---	---	---

Dr. Sonal Kedia

MBBS, MD

REG. NO. CGMC4457

ANUPAM DIAGNOSTICS

KOTRA ROAD RAIGARH (C.G.)



Dr. Arun Kedia's 5D World

अनुपम डायग्नोस्टिक

Believe in the best

डॉ. अरुण केडिया

M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037/2010

Consultant Radiologist

Ex. Registrar: इन्द्रप्रस्थ अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant: एम.एम.अर्बु. हॉस्पिटल, रायपुर

डॉ. सोनल केडिया

M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained From: रॉटर मेमोरियल हॉस्पिटल मुंबई

ब्लड कलेक्शन हेतु: 62327 21021

अग्रिम पंजीयन हेतु: 72250 20102, 93010 10729

अग्रवाल एग्रीकल्चर एवं तेल दुकान के सामने, सिटी हॉस्पिटल
के अग्रे, कोतवा रोड, सलीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001



रायगढ़ जिले का एकमात्र आधुनिकतम 1.5 Tesla MRI, 96 Slice CT Scan and 5D सोनोग्राफी सेंटर

NAME: MR. ANAND MAHAPATRA

AGE: 26Y/M

REF. BY: (IHC) SAMBHAVI

DATE: 03.05.2024

X-RAY CHEST P.A. VIEW

OBSERVATIONS:

- ❖ Bilateral lung fields are clear.
- ❖ Trachea and mediastinum are central.
- ❖ Heart size and contour is normal. Cardio thoracic ratio is within normal limits.
- ❖ Both the hila appear normal.
- ❖ Costophrenic angles appear sharp and clear.
- ❖ Both dome of diaphragm are clearly visualized.
- ❖ Bony thoracic cage and soft tissue are normal.

IMPRESSION: -

- No evidence of occupational lung diseases detected
- No radiological signs of:
 - Pneumoconiosis.
 - Silicosis.
 - Chronic bronchitis.
 - Emphysema
 - Occupational asthma



ANUPAM DIAGNOSTICS

AUDIOMETER : ANUPAM DIAGNOSTICS

REF. BY :

DATE:- 19.04.2024

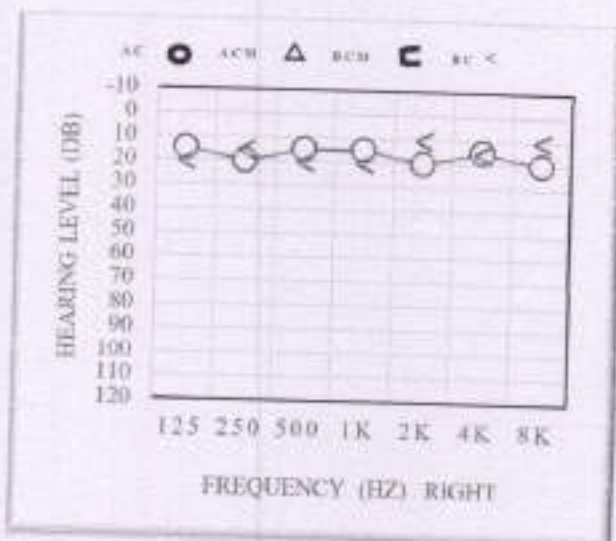
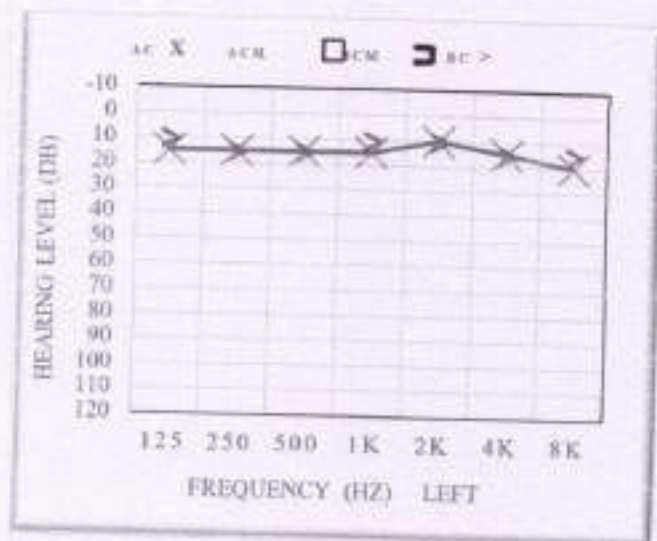
NAME : ANAND MAHAPATRA

AGE / SEX 26/M

COMPANY : SHAMBHAVI

S.NO. :

AUDIOGRAM



EAR \ MODE	AIR CONDUCTION		BONE CONDUCTION		COLOUR CODE	THRESHHOLD IN dB		LEFT	RIGHT
	MASKED	UNMASKED	MASKED	UNMASKED		AIR CONDUCTION			
LEFT	□	x	◩	>	BLUE	BONE CONDUCTION		13.33333	16.66667
RIGHT	△	○	◪	<	RED	SPEECH			
NO RESPONSE : ADD ↓ BELOW THE RESPECTIVE SYMBOLS									

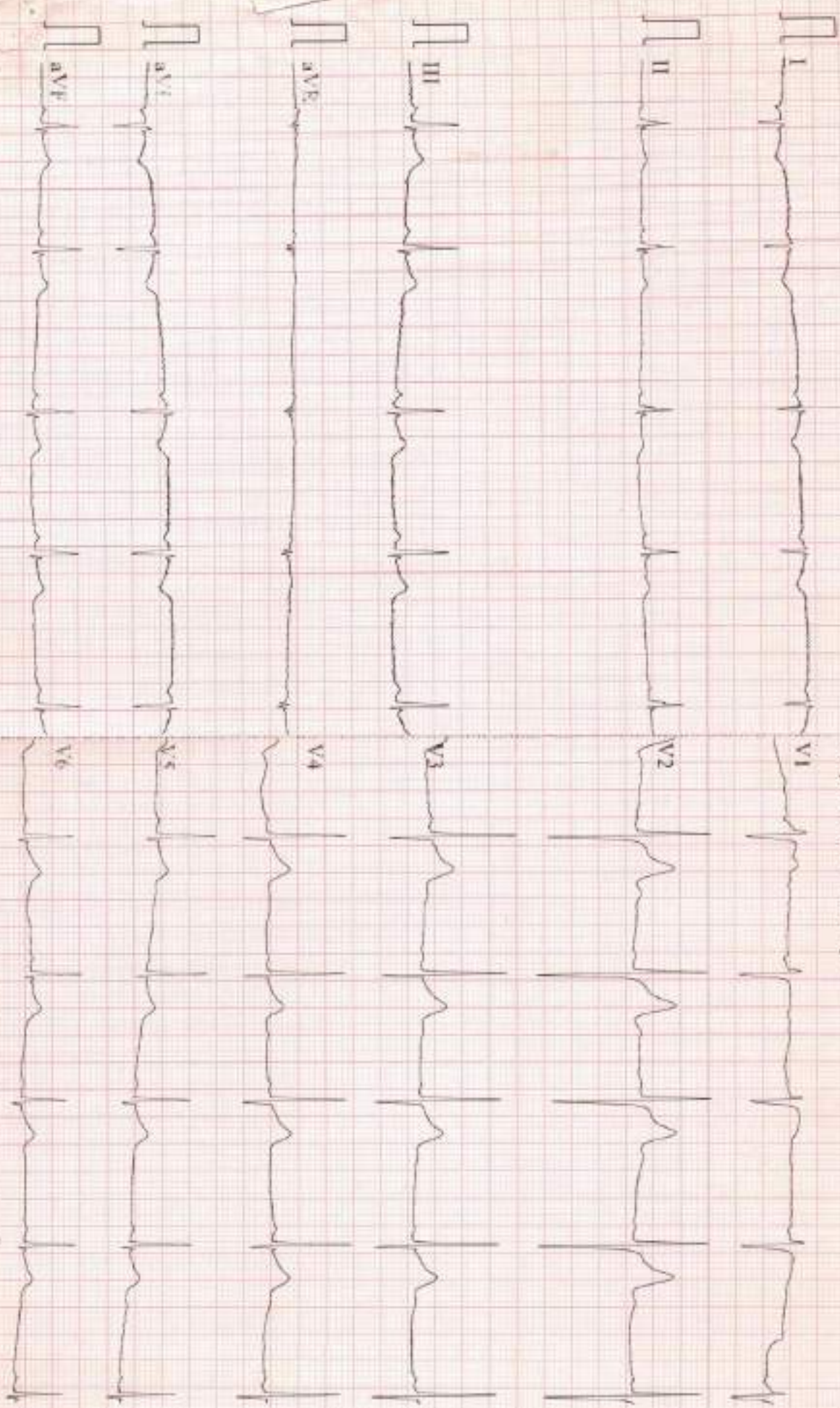
REMARK :

Dr. Sonal Kedia
MBBS, MD
REG NO. CGMC4457/2017
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIGARH (C.G.)

ID: 99683
anand mahapatra
Male 26Y ears

19-04-2024 11:42:38 AM
HR : 57 bpm
P : 98 ms
PR : 136 ms
QRS : 96 ms
QT/QTcBz : 396/386 ms
PQRST : 125/110/132
RV/SV1 : 1.07/0.849 mV

Diagnosis Information:
Sinus bradycardia with sinus arrhythmia
Possible arm lead reversal - hence analyzed
Normal ECG except for rate
Ref: Phys: 1
Report Confirmed by:
Dr. Sohal Kedia
MBBS, MD
REGD. CARDIANTH
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIGARH





Dr. Arun Kedia's 5D World

अनुपम डायग्नोस्टिक

Believe in the best

डॉ. अरुण केडिया

M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037/2010

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102, 93010 10729

अग्रवाल एग्रीकल्चर एवं तेल दुकान के सामने, सिटी हॉस्पिटल
के आगे, कोतरा रोड, सलीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001



डॉ. सोनल केडिया

M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained From : टाटा मेमोरियल हॉस्पिटल मुंबई

रायगढ़ जिले का एकमात्र आधुनिकतम 1.5 Tesla MRI, 96 Slice CT Scan and 5D सोनोग्राफी सेंटर

NAME: MR. ANAND MAHAPATRA /18

AGE : 26Y/M

REF. BY: (IHC) SAMBHAVI

DATE: 03.05.2024

SONOGRAPHY OF ABDOMEN AND PELVIS

(This ultrasound is performed by high end 4 D GE VOLUSON machine)

LIVER : The liver is normal in size, shape and has smooth margins. Its echotexture is normal. No SOL is seen. Intra-hepatic biliary radicals are not dilated.

GALL BLADDER : The gall bladder is well distended. No intra-luminal calculi or mass lesion is seen. Its wall thickness is normal.

COMMON BILE DUCT & PORTAL VEIN : The common bile duct is normal in caliber. No calculi are seen in it. The portal vein is normal in calibre and course.

SPLEEN : The spleen is normal in size and shape. Its echotexture is homogeneous. No evidence of focal lesion is noted.

PANCREAS : The pancreas is normal in size, shape, contours and echotexture. No evidence of solid or cystic mass lesion is noted.

KIDNEYS : Both kidneys have normal cortical echotexture and have smooth margins. Cortico-medullary differentiation is maintained. *No calculus or hydronephrosis is seen.*

URINARY BLADDER : The urinary bladder is well distended. It shows uniformly thin walls and sharp mucosa. No intra-luminal calculus or diverticulum is seen.

PROSTATE : The prostate is normal in size and shows well defined and sharp margins. The prostatic echotexture is normal and homogenous.

No free fluid is seen in the peritoneal cavity.

No obvious evidence of dilated/thickened bowel loops seen.

IMPRESSION : NO SIGNIFICANT ABNORMALITY

ADVISED: Clinical correlation.



THIS USG IS FOR SCREENING PURPOSE ONLY. IT IS MEANT FOR SCREENING MAJOR HEALTH PROBLEMS IN INDUSTRIAL HEALTH WORKERS.



अनुपम डायग्नोस्टिक्स

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्दिरा गंधी स्मृति अस्पताल, दिल्ली

Ex. Consultant : एम.एन.आई. हॉस्पिटल, रायपुर

रायपुर जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

नजदीक एनएमएल, एम.एन.आई. पुष्पाग्र पर सागर,

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुदी चौक, रायपुर (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

टाटा मेमोरियल हॉस्पिटल, मुंबई

Patient Name : MR. ANAND MAHAPATRA

Patient ID : S02

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:28 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:52 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
PLANT CBC			
Hemoglobin (Hb)*	13.6	13 - 18	gm/dL
Total Leucocytes (WBC) Count*	7540	4000 - 10000	cell/cu.mm
Neutrophils	70	40 - 80	%
Lymphocytes	25	20 - 40	%
Monocyte	2	2-10	%
Eosinophils	03	1 - 6	%
Basophils	0	0 - 1	%
Platelet Count*	2.32	1.5 - 4.5	lakh/cumm
Erythrocyte (RBC) Count*	5.12	4.7 - 6.0	mil/cu.mm
RDW-SD	42.1	37.0 - 54.0	fL
RDW-CV	13.2	11.6 - 14.0	

Blood Group ABO & Rh Typing, Blood

Blood Group (ABO typing)

O

Rh(D) Factor (Rh Typing)

Positive

Random Blood Sugar (RBS)

Blood Glucose Random

99.3

70.00 - 160.00

mg/dL

Note

Dr. Sonal Kedia
MBBS, MD (PATHOLOGIST)
REG NO. CGMC4457/2012
ANUPAM DIAGNOSTICS
M.B.B.S., M.D.



अनुपम डायग्नोस्टिक्स

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्दिरा गंधी अस्पताल, दिल्ली

Ex. Consultant : एम.एम.आर. हॉस्पिटल, रायपुर

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

जयप्रकाश एम्बेडमेंट्स एप एप्लीकेशन का सागर

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021
अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राजा मेमोरियल हॉस्पिटल, मुंबई

Patient Name : MR. ANAND MAHAPATRA

Patient ID : S02

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:28 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:52 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
Bilirubin - Indirect	0.30	0.2-0.8	mg/dL
SGOT	21.3	0-35	U/L
SGPT	32.5	0-45	U/L
Alkaline phosphatase	78	40-128	U/L
Total Protein	7.52	6.4 - 8.3	g/dL
Albumin	4.21	3.2 - 5.2	g/dL
Globulin	3.31	1.8 - 3.6	g/dL
A/G Ratio	1.27	1.2 - 2.2	

Dr. Sonal Kedia
MBBS, MD (PATHOLOGY)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIGARH (C.G.)
M.B.B.S., M.D.



अनुपम डायग्नोस्टिक्स

Believe in the Best

ISO 9001:2015
CERTIFIED CENTRE

डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एन.जी. हॉस्पिटल, रायपुर



महाराष्ट्र एम्बेस्सी रोड एच.एम.एस. रोड रायपुर

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

टाटा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. ANAND MAHAPATRA

Patient ID : S02

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:28 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:52 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

(if > = 200 it is DM.(Atleast two occasion))

Lipid Profile

Cholesterol-Total	155	Desirable: <= 200 Borderline High: 200-239 High: > 240	mg/dL
Triglycerides	121.3	100-170	mg/dL
HDL Cholesterol	46.2	30-60	mg/dL
LDL Cholesterol	84.54	Optimal < 100 Near / Above Optimal 100-129 Borderline High 130-159 High 160-189 Very High >or = 190	mg/dL
VLDL Cholesterol	24.26	5-40	
CHOL/HDL Ratio	3.35	1.0-4.4	
LDL/HDL Ratio	1.83	0.50-3.00	

Note

1. 8-10 hours fasting sample is required.

Dr. Sonal Kedia
MBBS, MD (PATHOLOGIST)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
OTRA ROAD, RAIPUR, C.G.
M.B.B.S., MD



अनुपम डायग्नोस्टिक्स

ISO 9001:2015
CERTIFIED CENTRE

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर



जयभारत एम्बुलेंस सर्विस प्रा. लि. रायपुर

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021
अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

लटा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. ANAND MAHAPATRA

Patient ID : S02

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:28 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:52 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

Urobilinogen

Normal

Nitrite

NIL

Microscopic Examination

Epithelial Cells

2-4

0-2

/HPF

Pus Cell (WBCs)

0-2

0-2

/HPF

RBC

NIL

0-1

/HPF

Cast

NIL

0-0

/HPF

Crystals

NIL

Bacteria

NIL

Other

NIL

kidney function test With Electrolyte

Urea *

30.5

11- 40

mg/dL

Blood Urea Nitrogen-BUN*

14.25

5- 20

mg/dL

Creatinine*

0.72

0.5 - 1.2

mg/dL

Uric Acid*

5.1

3.5 - 7.0

mg/dL

Lft, Liver Function Test

Bilirubin - Total

0.55

0.2-1.2

mg/dL

Bilirubin - Direct

0.25

0.2-1.0

mg/dL

Dr. Sonal Kedia

MBBS, MD (PATHOLOGY)

REG NO. CGMC 4457/2012

ANUPAM DIAGNOSTICS

KOTRA ROAD RAIPUR (G.)



अनुपम डायग्नोस्टिक्स

ISO 9001:2015
CERTIFIED CENTRE

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.I.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्दावनी अस्पताल, दिल्ली

Ex. Consultant : एम.एच.आई. हॉस्पिटल, रायपुर



जयभारत एज्युकेशनल ट्रस्ट द्वारा पुष्पगण पर लागू

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुडी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राजा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. ANAND MAHAPATRA

Patient ID : S02

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:28 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:52 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

2. Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol

3. As per NCEP guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

Urine Routine Examination

Physical Examination

Volume	30	20 - 50	ml
Colour	pale yellow		
Appearance	Clear	Clear	
Reaction (pH)	6.0		
Specific gravity	1.020	1.003 - 1.030	

Chemical Examination

Urine Glucose (Sugar)	NIL
Urine Protein (Albumin)	NIL
Urine Ketones (Acetone)	Absent
Billurubin	NIL

Dr. Sonal Kedia

MBBS, MD (PATHOLOGY)

REG NO. CGMC 4457/12

ANUPAM DIAGNOSTICS

KOTRA ROAD RAIGARH (C.G.)

FORM 21(Annexure)
[Prescribed Under Rule(19)]

Health Register

(In respect of persons employed in occupation declared to be dangerous operation under section 87)
PRE-EMPLOYMENT & PERIODIC MEDICAL EXAMINATION

Name: Kishan Rana
Employee No. _____

Age (Years): 24
Department: _____

Date: 19/04/24
Male / Female: ✓
Designation: _____

(1) GENERAL EXAMINATION:

Height 160 Cm. Weight 54 Kg. BMI _____
Chest Inspiration: _____ Cm. Expiration: _____ Cm.

BUILT-Average/Strong/Poor. _____

Throat _____ Tongue _____ Tonsils _____

Teeth (N) Gums (N) Thyroid (N)

Lymph Nodes _____

Additional Findings _____

(2) CARDIO-VASCULAR SYSTEM

Pulse: 73 /Min. Regular/Irregular/Peripheral Pulse-Felt/Not Felt

B.P.: 127/80 mm of Hg. ∴ _____

Heart Sound _____

Murmur, If Any: _____

Additional Finding(S), If Any: NO

(3) RESPIRATORY SYSTEM:

Shape Of Chest: _____

Chest Movements: Normal

Trachea: _____

Breath Sounds: _____

(4) GASTRO-INTESTINAL SYSTEM

Liver: NP Spleen: NP

Any Abdominal Lumps: NO

(5) EXAMINATION OF EYES:

External Exam: Normal Squint NO

Nystagmus: _____

Colour Vision-Normal/Defective

Fundus(L) _____ (R) _____

Individual Colour Identification-Normal/Defective

Distant Vision(Without Glasses) _____

Right 6/6 Left 6/6

Near Vision(Without Glasses) _____

Right 1/6 Left 1/6

With Glasses Right _____ Left _____

Night Blindness:(Nyctalopia): NO

(6) EXAMINATION OF EAR, NOSE & THROAT

External Exam: _____

(7) GENITOURINARY SYSTEM:

Hernia: _____ Hydrocele _____ Vepricocele _____

Cryptorchidism: (N) Phimosis _____

Varicose Veins _____ Signs Of STD (N)

Other Examination For FEMALES: _____

Menstrual History
Menarche At ----- Yrs. Gravidia -----
LMP ----- Obstetric History
PARA -----

Menstrual Irregularity If Any: -----

(8) LAB INVESTIGATIONS:

URINE: Albumin Nil Sugar Nil Microscopy ----- Stool -----
HAEMOGRAM

Blood Group B Rh factor +ve Hb 13.6 TLC 7450 RBC 5.12
DLC ----- PLEMB ----- Platelets Count 2.32

LIPID PROFILE

Serum Cholesterol 165 :S/Triglycerides 142.1
HDL 48.2 :LDL 88.38

HEPATIC PROFILE

SGPT 28.1 :SGOT: 16.5
Alkaline Phosphatase: 48

RENAL PROFILE:

Blood Urea 26.3 :S/Creatinine: 0.68

METABOLIC:

Blood Sugar-F ----- :Blood Sugar-PP: -----
Uric Acid 5.1 :RBS: 98.3

(9) OTHER INVESTIGATIONS:

X-ray Chest(In Normal persons once in three years -----
In case of any abnormality x-ray can be done at shorter intervals)

ECG(In case of any abnormality further tests should be carried out) -----

Ultra Sound Whole Abdomen(In normal persons once in three years in case of any abnormality can be done at shorter intervals) -----

Others -----

(10) PULMONARY FUNCTION TEST

	FVC	FEV 1	FEV 1/FVC
Predicted	<u>3.17</u>	<u>2.72</u>	<u>87.38</u>
Measured	<u>2.72</u>	<u>2.56</u>	<u>94.12</u>
% of predicted	<u>86</u>	<u>92</u>	<u>108</u>

Remarks: -----

(11) Audiometry Examination-PTA of both ears at frequency of 125,250,500,1000,2000,4000,8000,cycles per second -----

(12) Medical Examination of canteen staff

- a-Blood examination for venereal disease and routine blood examination.
- b- Stool and urine examination for worm infection.
- c- Screening for skin diseases(Scabies and others)
- d- x-ray and other tests for T.B.

(13) Details of other specific medical examination carried out as mentioned in the respective schedules of rule 107 of C.G. Factories rules 1962-

Dr. Sonal K. Jha
MBBS, MD
REG NO. 1012
ANUPAM
RAIGARH

Signature (with Date) of
Factory Medical Officer
05/09/2024

ANUPAM DIAGNOSTICS

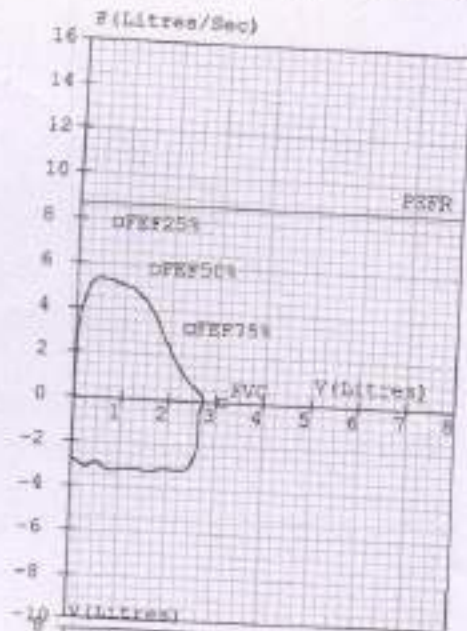
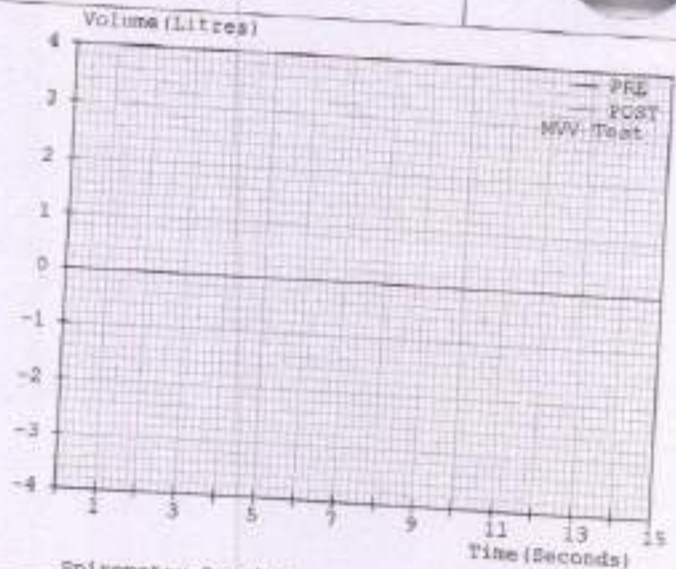
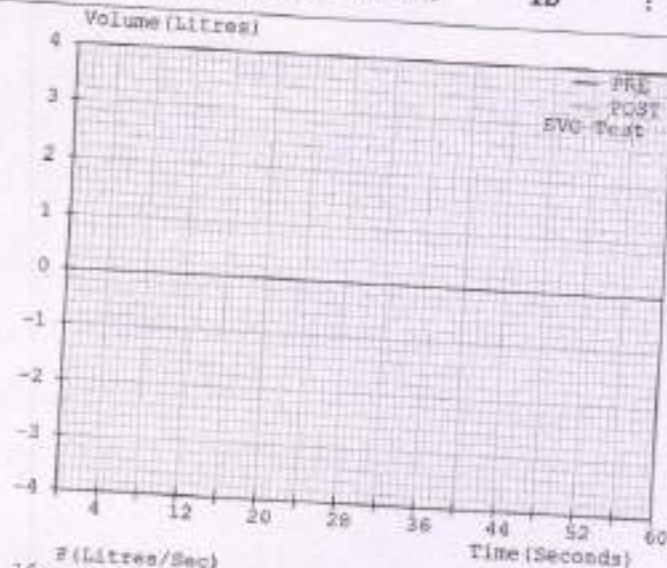
KOTRA ROAD, RAIGARH (C.G.)

Patient: KISHAN RANA
Refd. By:
Pred. Eqns: RECORDERS
Date : 19-Apr-2024 10:24 AM

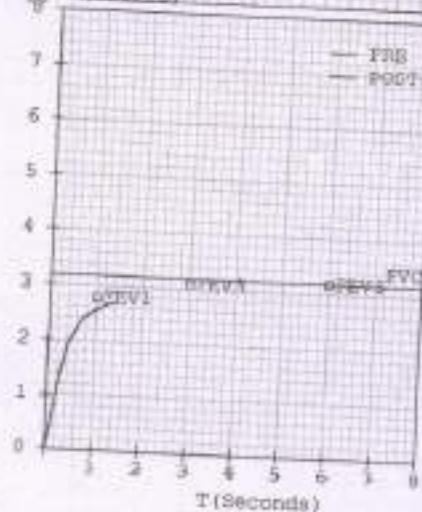
Age : 24 Yrs
Height : 160 Cms
Weight : 54 Kgs
ID : 498

Gender : Male
Smoker : No
Eth. Corr: 100
Temp :

RMS



Spirometry Results		Pred	M.Pre	%Pred	M.Post	%Pred	Temp
FVC	(L)	03.17	02.72	086	---	---	---
FEV1	(L)	02.77	02.56	092	---	---	---
FEV1/FVC	(%)	87.38	94.12	108	---	---	---
FEF25-75	(L/s)	04.47	03.87	087	---	---	---
PEFR	(L/s)	08.70	05.31	061	---	---	---
FIVC	(L)	---	02.92	---	---	---	---
FEV.5	(L)	---	02.09	---	---	---	---
FEV3	(L)	03.08	02.72	088	---	---	---
PIFR	(L/s)	---	03.24	---	---	---	---
FEF75-95	(L/s)	---	01.39	---	---	---	---
FEF.2-1.2	(L/s)	07.47	05.05	068	---	---	---
FEF 25%	(L/s)	07.85	05.25	067	---	---	---
FEF 50%	(L/s)	05.84	04.56	078	---	---	---
FEF 75%	(L/s)	03.24	02.01	062	---	---	---
FEV.5/FVC	(%)	---	76.84	---	---	---	---
FEV3/FVC	(%)	97.16	100.00	103	---	---	---
FET	(Sec)	---	01.45	---	---	---	---
ExpirTime	(Sec)	---	00.07	---	---	---	---
Lung Age (Yrs)		024	026	108	---	---	---
FEV6	(L)	03.17	---	---	---	---	---
FIF 25%	(L/s)	---	03.18	---	---	---	---
FIF 50%	(L/s)	---	03.14	---	---	---	---
FIF 75%	(L/s)	---	03.07	---	---	---	---
SVC	(L)	---	---	---	---	---	---
ERV	(L)	01.48	---	---	---	---	---
IRV	(L)	---	---	---	---	---	---
VE	(L/min)	---	---	---	---	---	---
Rf	(l/min)	---	---	---	---	---	---
Ti	(sec)	---	---	---	---	---	---
Te	(sec)	---	---	---	---	---	---
VT	(L)	---	---	---	---	---	---
VT/Ti		---	---	---	---	---	---
Ti/Ttot		---	---	---	---	---	---
IC	(L)	---	---	---	---	---	---
MVV	(L/min)	134	---	---	---	---	---
MRF	(L/min)	---	---	---	---	---	---
MVT	(L)	---	---	---	---	---	---



Dr. Sonal Kedia
MBBS, MD
REG NO. CCMC4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD, RAIGARH (C.G.)



अनुपम डायग्नोस्टिक्स

Believe in the Best

ISO 9001:2015
CERTIFIED CENTRE

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रास अर्पोली हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर



जयपुराई एडवायन्स एच एल बुकंग फॉर सॉलर

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

टाटा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRL 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. KISHAN RANA

Patient ID : S03

Age / Gender : 24 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:26 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:37 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
Bilirubin - Indirect	0.20	0.2-0.8	mg/dL
SGOT	16.5	0-35	U/L
SGPT	28.1	0-45	U/L
Alkaline phosphatase	48	40-128	U/L
Total Protein	7.56	6.4 - 8.3	g/dL
Albumin	4.21	3.2 - 5.2	g/dL
Globulin	3.35	1.8 - 3.6	g/dL
A/G Ratio	1.26	1.2 - 2.2	

Dr. Sonal Kedia
MBBS, MD (PA)
REG NO. 4457/12
ANUPAM
KOTRA ROAD
Dr. Sonal Kedia
M.B.B.S., MD

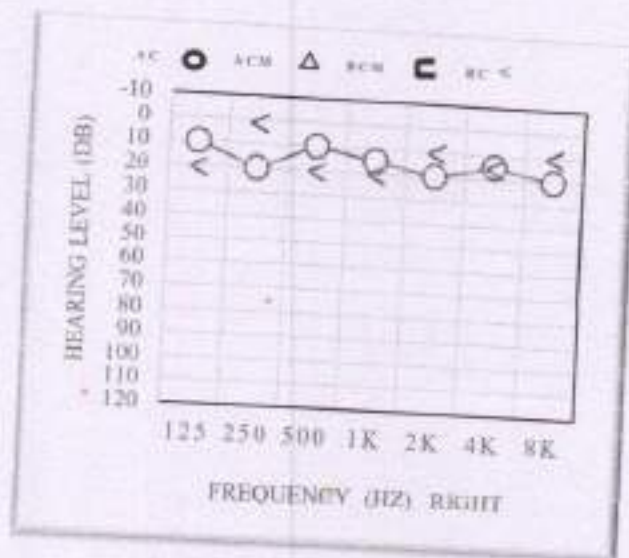
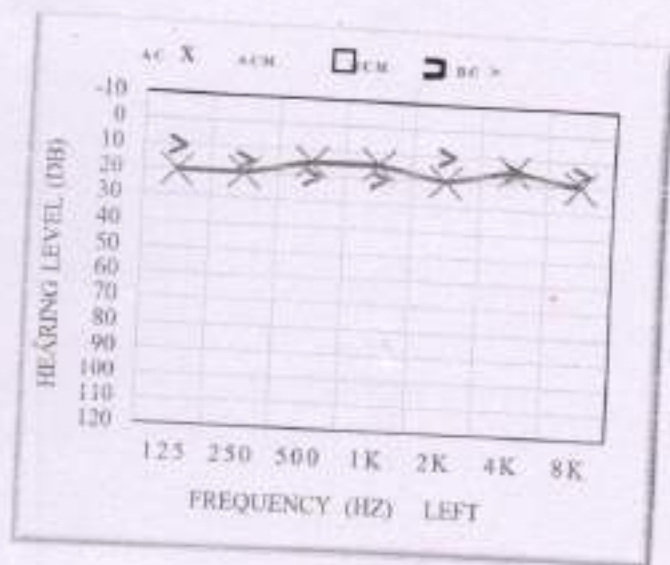
ANUPAM DIAGNOSTICS

AUDIOMETER : ANUPAM DIAGNOSTICS

DATE:- 19.04.2024
NAME : KISHAN RANA
AGE / SEX 24/M
COMPANY : SHAMBHAVI
S.NO. :

REF. BY :

AUDIOGRAM



EAR	MODE	AIR CONDUCTION		BONE CONDUCTION		COLOUR CODE	THRESHHOLD IN dB		LEFT	RIGHT
		MASKED	UNMASKED	MASKED	UNMASKED		AIR CONDUCTION			
LEFT		□	X	▮	>	BLUE	BONE CONDUCTION		16.66667	15
RIGHT		△	O	C	<	RED	SPEECH			

NO RESPONSE : ADD ↓BELOW THE RESPECTIVE SYMBOLS

REMARK :

Dr. Sonal Kedia
REG NO. GMC/4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIGARH (C.G.)



अनुपम डायग्नोस्टिक्स

ISO 9001:2015
CERTIFIED CENTRE

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अस्पताल, दिल्ली

Ex. Consultant : एम.एन.आई. हॉस्पिटल, रायगढ़

Believe in the Best



जयपुरावा एडवायन्स एम एल डायग्नोस्टिक्स प्रा. लि.

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राज मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. KISHAN RANA

Age / Gender : 24 years / Male

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Contact No. : -

Patient ID : S03

Medical Option Code :

Collection Time : Apr 20, 2024, 11:26 a.m.

Reporting Time : Apr 20, 2024, 03:37 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

Urobilinogen

Normal

Nitrite

NIL

Microscopic Examination

Epithelial Cells

2-4

0-2

/HPF

Pus Cell (WBCs)

0-2

0-2

/HPF

RBC

NIL

0-1

/HPF

Cast

NIL

0-0

/HPF

Crystals

NIL

Bacteria

NIL

Other

NIL

kidney function test With Electrolyte

Urea *	26.3	11- 40	mg/dL
Blood Urea Nitrogen-BUN*	12.29	5- 20	mg/dL
Creatinine*	0.68	0.5 - 1.2	mg/dL
Uric Acid*	5.1	3.5 - 7.0	mg/dL

Lft, Liver Function Test

Bilirubin - Total	0.40	0.2-1.2	mg/dL
Bilirubin - Direct	0.20	0.2-1.0	mg/dL

Dr. Sonal Kedia
MBBS, M.D. (Pathology)
REG NO. 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD
Dr. Sonal Kedia
M.B.B.S., MD

ID: 99684
Kishan rana
Male 24 Years

19-04-2024 11:49:33 AM
HR : 69 bpm
P : 100 ms
PR : 134 ms
QRS : 88 ms
QT/QTcbz : 414/444 ms
P/QRS/T : 123/148/139
RV5/SV1 : 1.133/0.781 mV

Diagnosis Information:

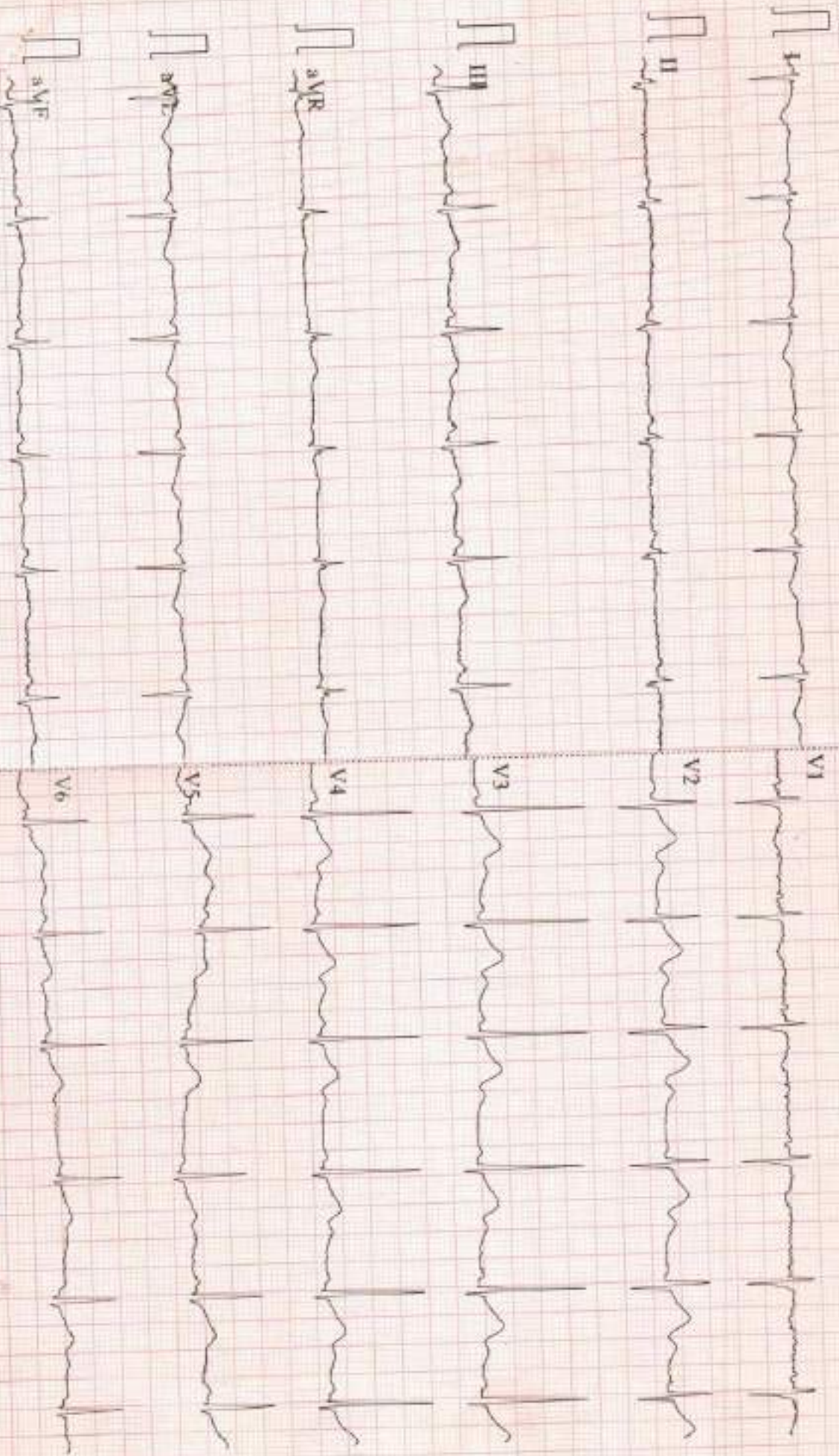
Probable atrial fibrillation

— Possible arm lead reversal — hence only aVF, V1-V6 analyzed —

Abnormal ECG

Ref-Phys. :
Report Confirmed by:

Dr. Sonal Kedia
REG NO. 00000000000000000000
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIGARH (C.O.)





अनुपम डायग्नोस्टिक्स

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अस्पताल, दिल्ली

Ex. Consultant : एम.एच.आई. हॉस्पिटल, रायपुर

सयगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

जयप्रकाश एडवांस्ड मेडिकल सुविधा का सामना

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुड़ी चौक, सयगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राजा मेमोरियल हॉस्पिटल, मुंबई

Patient Name : MR. KISHAN RANA

Age / Gender : 24 years / Male

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Contact No. : -

Patient ID : S03

Medical Option Code :

Collection Time : Apr 20, 2024, 11:26 a.m.

Reporting Time : Apr 20, 2024, 03:37 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

2. Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol

3. As per NCEP guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

Urine Routine Examination

Physical Examination

Volume	30	20 - 50	ml
Colour	pale yellow		
Appearance	Clear	Clear	
Reaction (pH)	6.0		
Specific gravity	1.020	1.003 - 1.030	

Chemical Examination

Urine Glucose (Sugar)	NIL
Urine Protein (Albumin)	NIL
Urine Ketones (Acetone)	Absent
Billurubin	NIL

Dr. Sonal Kedia
MBBS, MD (PATHOLOGY)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD
Dr. Sonal Kedia
M.B.B.S., MD



अनुपम डायग्नोस्टिक

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.
Reg. No.: CGMC 3037
Consultant Radiologist
Ex. Registrar : इन्द्रपद्म स्पायली हॉस्पिटल, दिल्ली
Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर



जयपुरावाडी पश्चिममार्ग पर, एच.एस. रोड, पुणे-411 004, महाराष्ट्र
सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुडी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021
अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.
Reg. No.: CGMC 4457/2012
Consultant Pathologist
Sp. Trained from :
टाटा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. KISHAN RANA	Patient ID : S03
Age / Gender : 24 years / Male	Medical Option Code :
Referral : Dr. SHAMBHAVI ISPAT PVT LTD.	Collection Time : Apr 20, 2024, 11:26 a.m.
Contact No. : -	Reporting Time : Apr 20, 2024, 03:37 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
PLANT CBC			
Hemoglobin (Hb)*	13.6	13 - 18	gm/dL
Total Leucocytes (WBC) Count*	7450	4000 - 10000	cell/cu.mm
Neutrophils	70	40 - 80	%
Lymphocytes	23	20 - 40	%
Monocyte	3	2-10	%
Eosinophils	04	1 - 6	%
Basophils	0	0 - 1	%
Platelet Count*	2.32	1.5 - 4.5	lakh/cumm
Erythrocyte (RBC) Count*	5.12	4.7 - 6.0	mil/cu.mm
RDW-SD	42.1	37.0 - 54.0	fL
RDW-CV	12.8	11.6 - 14.0	

Blood Group ABO & Rh Typing, Blood

Blood Group (ABO typing)	B
RhD Factor (Rh Typing)	Positive

Random Blood Sugar (RBS)

Blood Glucose Random	98.3	70.00 - 160.00	mg/dL
----------------------	------	----------------	-------

Note

Dr. Sonal Kedia
MBBS, MD (PATHOLOGY)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTIC CENTRE
Dr. Sonal Kedia
M.B.B.S., M.D.



अनुपम डायग्नोस्टिक्स

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रास अर्पोली हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर

सबमर्क जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

पञ्जाबी चर्च/पञ्जाबी चर्च/पञ्जाबी चर्च/पञ्जाबी चर्च/पञ्जाबी चर्च

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

टाटा मेमोरियल हॉस्पिटल, मुंबई

Patient Name : MR. KISHAN RANA		Patient ID : S03	
Age / Gender : 24 years / Male		Medical Option Code :	
Referral : Dr. SHAMBHAVI ISPAT PVT LTD.		Collection Time : Apr 20, 2024, 11:26 a.m.	
Contact No. : -		Reporting Time : Apr 20, 2024, 03:37 p.m.	
Test Description	H/L Value(s)	Reference Range	Unit(s)

(if > = 200 it is DM.(Atleast two occasion))

Lipid Profile

Cholesterol-Total	165	Desirable: <= 200 Borderline High: 200-239 High: > 240	mg/dL
Triglycerides	142.1	100-170	mg/dL
HDL Cholesterol	48.2	30-60	mg/dL
LDL Cholesterol	88.38	Optimal < 100 Near / Above Optimal 100-129 Borderline High 130-159 High 160-189 Very High >or = 190	mg/dL
VLDL Cholesterol	28.42	5-40	
CHOL/HDL Ratio	3.42	1.0-4.4	
LDL/HDL Ratio	1.83	0.50-3.00	

Note

1. 8-10 hours fasting sample is required.

Dr. Sonal Kedia
MBBS, M.D. (Pathology)
REG. NO. 4457/2012
ANUPAM DIAGNOSTICS
KOTRA
Dr. Sonal Kedia
M.B.B.S., M.D.

FORM 21(Annexure)
[Prescribed Under Rule(19)]
Health Register

(In respect of persons employed in occupation declared to be dangerous operation under section 87)

PRE-EMPLOYMENT & PERIODIC MEDICAL EXAMINATION

Name : Shubham Mallik Age (Years) : 28
Employee No. Department :

Date : 19/04/21
Male / Female :
Designation :

(1) GENERAL EXAMINATION:

Height 167 Cm. Weight 94 Kg. BMI _____
Chest Inspiration: _____ Cm. Expiration: _____ Cm.
BUILT-Average/Strong/Poor.
Throat (N) Tongue (N) Tonsils (N)
Teeth (N) Gums (N) Thyroid (N)
Lymph Nodes _____
Additional Findings _____

(2) CARDIO-VASCULAR SYSTEM

Pulse: 94/Min. Regular/Irregular/Peripheral Pulse-Felt/Not Felt
B.P.: 125/86 mm of Hg. ;
Heart Sound S2 +
Murmur, If Any: _____
Additional Finding(S), If Any: NO

(3) RESPIRATORY SYSTEM:P

Shape Of Chest: _____
Chest Movements: NAD
Trachea: _____
Breath Sounds: _____

(4) GASTRO-INTESTINAL SYSTEM

Liver: NO Spleen: NO
Any Abdominal Lumps: NO

(5) EXAMINATION OF EYES:

External Exam: NAD Squint NO
Nystagmus: ✓
Colour Vision-Normal/Defective
Fundus(L) _____ (R) _____
Individual Colour Identification-Normal/Defective
Distant Vision(Without Glasses)

Right 6/6 Left 6/6
Near Vision(Without Glasses)
Right NG Left NG
With Glasses Right _____ Left _____
Night Blindness(Nyctalopia): NO

(6) EXAMINATION OF EAR, NOSE & THROAT

External Exam: _____

(7) GENITOURINARY SYSTEM:

Hernia: _____ Hydrocele _____ Vepriocoele (N)
Cryptorchidism: (N) Phimosis (N)
Varicose Veins _____ Signs Of STD _____

Other Examination For FEMALES:

Menstrual History
Menarche At ----- Yrs. Gravida -----
LMP ----- PARA -----
Menstrual Irregularity If Any: -----

(8) LAB INVESTIGATIONS:

URINE: Albumin Nil Sugar Nil Microscopy ----- Stool -----
HAEMOGRAM
Blood Group B Rh factor +ve Hb 13.6 TLC 6580 RBC 5.12
DLC ----- PLEMB ----- Platelets Count 2.52

LIPID PROFILE
Serum Cholesterol 170 :S/Triglycerides 135.1
HDL 48.2 :LDL 99.28

HEPATIC PROFILE
SGPT 26.1 :SGOT: 23.1
Alkaline Phosphatase: 78

RENAL PROFILE:
Blood Urea 26.1 :S/Creatinine: 0.71

METABOLIC:
Blood Sugar-F ----- :Blood Sugar-PP: -----
Uric Acid 4.6 : RBS: 86.2

(9) OTHER INVESTIGATIONS:

X-ray Chest(In Normal persons once in three years)

In case of any abnormality x-ray can be done at shorter intervals)

ECG(In case of any abnormality further tests should be carried out)

Ultra Sound Whole Abdomen(In normal persons once in three years in case of any abnormality can be done at shorter intervals)

Others -----

(10) PULMONARY FUNCTION TEST

	FVC	FEV 1	FEV 1/FVC
Predicted	<u>3.47</u>	<u>2.96</u>	<u>85.30</u>
Measured	<u>3.24</u>	<u>2.99</u>	<u>92.28</u>
% of predicted	<u>93</u>	<u>101</u>	<u>108</u>

Remarks: -----

(11) Audiometry Examination-PTA of both ears at frequency of 125,250,500,1000,2000,4000,8000,cycles per second

(12) Medical Examination of canteen staff

- a- Blood examination for venereal disease and routine blood examination.
- b- Stool and urine examination for worm infection.
- c- Screening for skin diseases(Scabies and others)
- d- x-ray and other tests for T.B.

(13) Details of other specific medical examination carried out as mentioned in the respective schedules of rule 107 of C.G. Factories rules 1962-

Dr. Sonal Kedia

MBBS, MD

REG NO. 00004457/2012

ANUPAM DIAGNOSTICS

OTRA ROAD RAIGARH (C.G.)

Signature (with Date) -----
Factory Manager -----

ANUPAM DIAGNOSTICS

KOTRA ROAD, RAIGARH (C.G.)

Patient: SHUBHAM MALLIK

Refd. By:

Pred. Eqns: RECORDERS

Date : 19-Apr-2024 10:24 AM

Age : 28 Yrs

Height : 167 Cms

Weight : 94 Kgs

ID : 499

Gender : Male

Smoker : No

Eth. Corr: 100

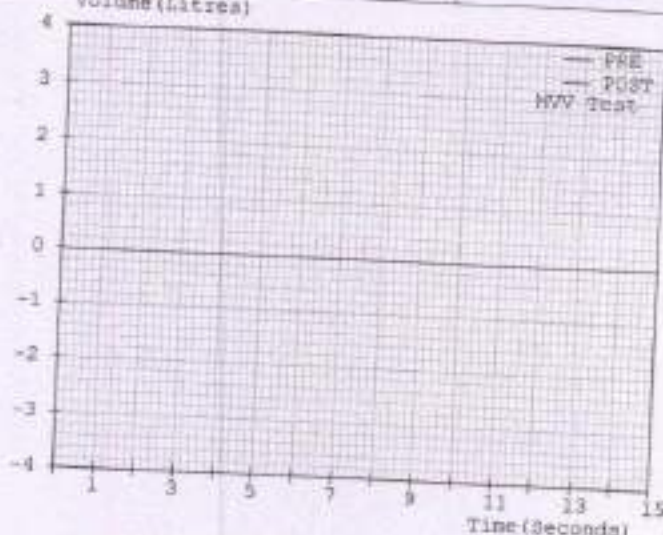
Temp :

RMS

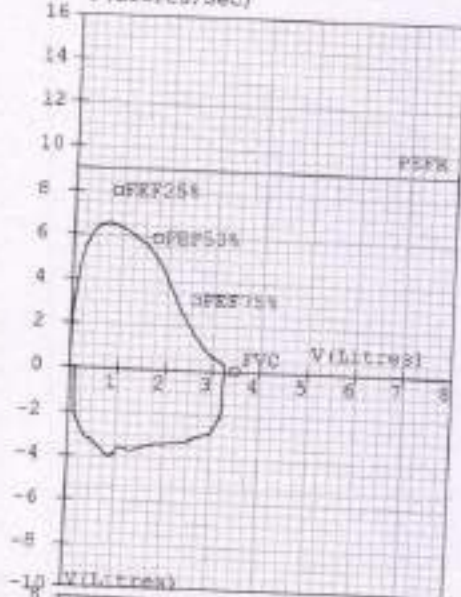
Volume (Litres)



Volume (Litres)

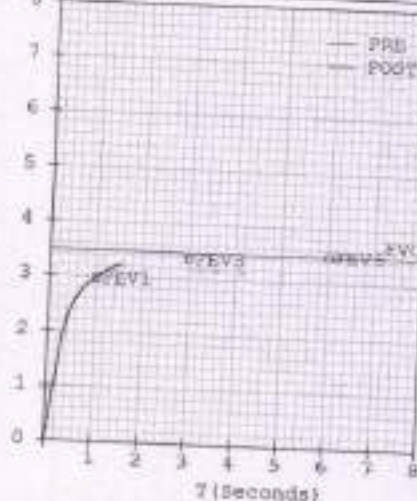


F (Litres/Sec)



Spirometry Results

Parameter	Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC (L)	03.47	03.24	093			
FEV1 (L)	02.96	02.59	101			
FEV1/FVC (%)	05.30	02.28	108			
FEF25-75 (L/s)	04.42	04.40	100			
PEFR (L/s)	09.06	06.49	072			
FIVC (L)		03.18				
FEV.5 (L)		02.46				
FEV3 (L)	03.36	03.24	096			
PIFR (L/s)		03.94				
FEF75-85 (L/s)		01.48				
FEF.2-1.2 (L/s)	07.55	06.11	081			
FEF 25% (L/s)	08.02	06.41	080			
FEF 50% (L/s)	05.90	05.33	090			
FEF 75% (L/s)	03.17	02.12	067			
FEV.5/FVC (%)		75.93				
FEV3/FVC (%)	96.83	100.00	103			
FET (Sec)		01.61				
ExptTime (Sec)		00.09				
Lung Age (Yrs)	028	028	100			
FEV6 (L)	03.47					
FIF 25% (L/s)		03.14				
FIF 50% (L/s)		03.41				
FIF 75% (L/s)		03.83				
SVC (L)						
ERV (L)	01.50					
IRV (L)						
VE (L/min)						
Rf (l/min)						
Ti (sec)						
Te (sec)						
VT (L)						
VT/Ti						
Ti/Ttot						
IC (L)						
MVV (L/min)	135					
MRI (l/min)						
MVT (L)						



Dr. Sonal Kedia
MBBS, MD
REG NO. 20000445720
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIGARH (C.G.)



Dr. Arun Kedia's 5D World

अनुपम डायग्नोस्टिक

Believe in the best

डॉ. अरूण केडिया

M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037/2010

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एन.आई. हॉस्पिटल, रायपुर

डॉ. सोनल केडिया

M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained From : टाटा मेमोरियल हॉस्पिटल मुंबई

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102, 93010 10729

अग्रवाल एग्रीकल्चर एवं तेल दुकान के सामने, सिटी हॉस्पिटल
के आगे, कोतरा रोड, सलीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001



रायगढ़ जिले का एकमात्र आधुनिकतम 1.5 Tesla MRI, 96 Slice CT Scan and 5D सोनोग्राफी सेंटर

NAME: MR SHUBHAM MALLIK

AGE : 28Y/M

REF. BY: OHC(SAMBHAVI PLANT)

DATE: 14.05.2024

X-RAY CHEST P.A. VIEW

OBSERVATIONS:

- ❖ Bilateral lung fields are clear.
- ❖ Trachea and mediastinum are central.
- ❖ Heart size and contour is normal. Cardio thoracic ratio is within normal limits.
- ❖ Both the hila appear normal.
- ❖ Costophrenic angles appear sharp and clear.
- ❖ Both dome of diaphragm are clearly visualized.
- ❖ Bony thoracic cage and soft tissue are normal.

IMPRESSION: -

- No evidence of occupational lung diseases detected

No radiological signs of:

- Pneumoconiosis.
- Silicosis.
- Chronic bronchitis.
- Emphysema
- Occupational asthma



ANUPAM DIAGNOSTICS

AUDIOMETER : ANUPAM DIAGNOSTICS

REF. BY :

DATE:- 19.04.2024

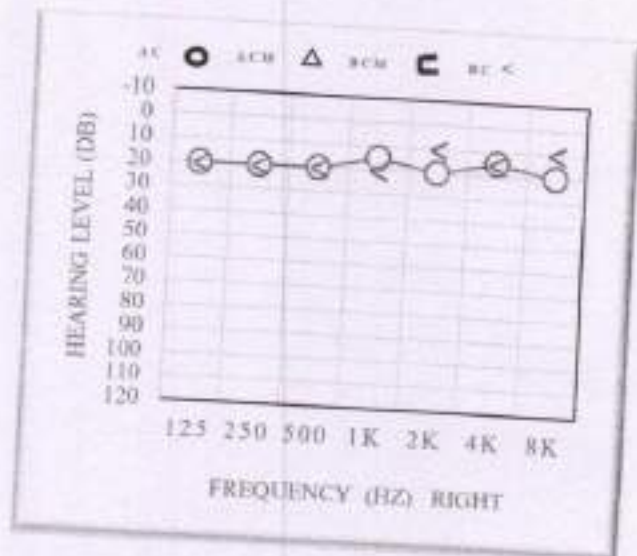
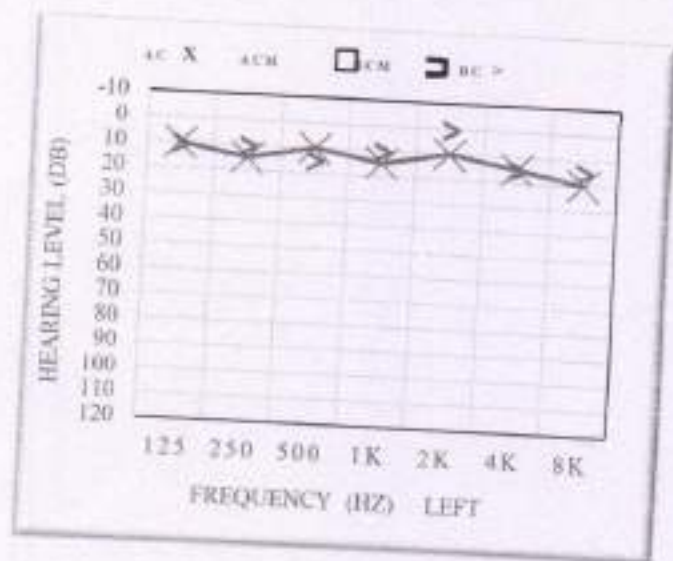
NAME : SHUBHAM MALLIK

AGE / SEX 28/M

COMPANY : SHAMBHAVI

S.NO. :

AUDIOGRAM



EAR	MODE	AIR CONDUCTION		BONE CONDUCTION		COLOUR CODE	THRESHOLD IN dB		
		MASKED	UNMASKED	MASKED	UNMASKED		AIR CONDUCTION	LEFT	RIGHT
LEFT		□	x	□	>	BLUE	BONE CONDUCTION	11.66667	18.33333
RIGHT		△	○	△	<	RED	SPEECH		

NO RESPONSE : ADD ↓ BELOW THE RESPECTIVE SYMBOLS

REMARK :

Dr. Sonal Kedia
MBBS, MD
REG NO. CGMC44012
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIGARH (C.G.)

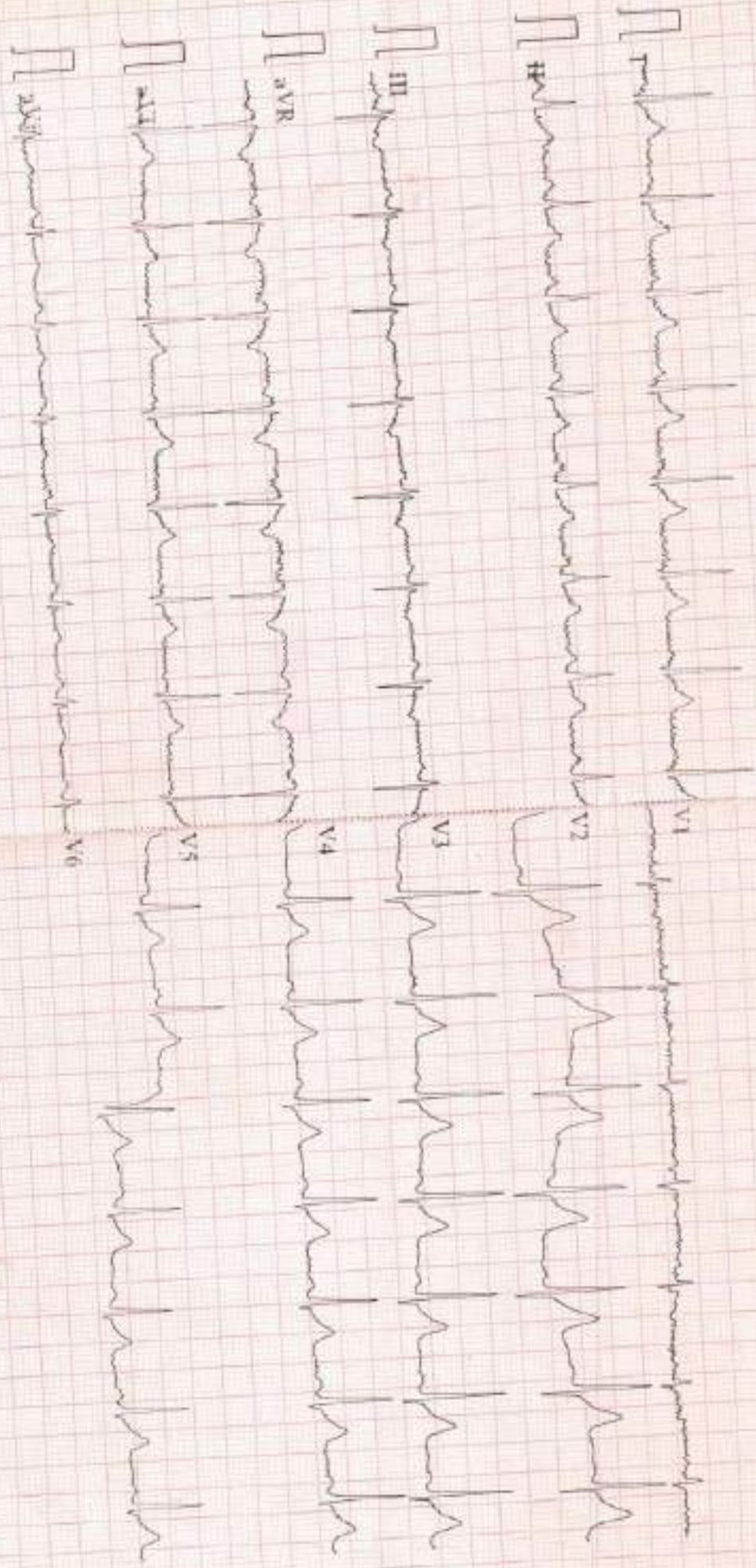
ID: 10009
Subhamalick
Male 28 Years

19-04-2024 02:20:51 PM
HR 89 bpm
P 96 ms
PR 136 ms
QRS 76 ms
QT/QTcBz 128/395 ms
PQRST 50/16/12
RV5(SV1) 1.0/1.0/2.0 mV

Diagnosis Information:
Sinus rhythm
Normal ECG

Ref Phys:
Report Confirmed by:

Dr. Sagar Kerkar
MBBS, MD
REG NO. CGMC457201
ANUPAM DIAGNOSTIC
KOTRA ROAD RAIGARH





Dr. Arun Kedia's 5D World

अनुपम डायग्नोस्टिक

Believe in the best

डॉ. अरुण केडिया

M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037/2010

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर

डॉ. सोनल केडिया

M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained From : टाटा मेमोरियल हॉस्पिटल मुंबई

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102, 93010 10729

अग्रवाल एग्रीकल्चर एवं तेल दुकान के सामने, सिटी हॉस्पिटल के आगे, कोतवा रोड, सलीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001



रायगढ़ जिले का एकमात्र आधुनिकतम 1.5 Tesla MRI, 96 Slice CT Scan and 5D सोनोग्राफी सेंटर

NAME:MR .SUBHAM MALLIK

AGE : 28Y/M

REF. BY: OHC(SAMBHAVI PLANT)

DATE:14.05.2024

SONOGRAPHY OF ABDOMEN AND PELVIS

(This ultrasound is performed by high end 4 D GE VOLUSON machine)

LIVER : The liver is normal in size, shape and has smooth margins. Its echotexture is **normal**. No SOL is seen. Intra-hepatic biliary radicals are not dilated.

GALL BLADDER : The gall bladder is well distended. No intra-luminal calculi or mass lesion is seen. Its wall thickness is normal.

COMMON BILE DUCT & PORTAL VEIN : The common bile duct is normal in caliber. No calculi are seen in it. The portal vein is normal in calibre and course.

SPLEEN : The spleen is normal in size and shape. Its echotexture is homogeneous. No evidence of focal lesion is noted.

PANCREAS : The pancreas is normal in size, shape, contours and echotexture. No evidence of solid or cystic mass lesion is noted.

KIDNEYS : Both kidneys have normal cortical echotexture and have smooth margins. Cortico-medullary differentiation is maintained. **No calculus or hydronephrosis is seen.**

URINARY BLADDER : The urinary bladder is well distended. It shows uniformly thin walls and sharp mucosa. No intra-luminal calculus or diverticulum is seen.

PROSTATE : The prostate is normal in size and shows well defined and sharp margins. The prostatic echotexture is normal and homogenous.

No free fluid is seen in the peritoneal cavity.

No obvious evidence of dilated/thickened bowel loops seen.

IMPRESSION : NO SIGNIFICANT ABNORMALITY.

ADVISED: Clinical correlation.

DR ARUN KEDIA
CONSULTANT & RADIOLOGIST



THIS USG IS FOR SCREENING PURPOSE ONLY. IT IS MEANT FOR SCREENING MAJOR HEALTH PROBLEMS IN INDUSTRIAL HEALTH WORKERS.



अनुपम डायग्नोस्टिक्स

Believe in the Best

डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्दप्रसन्न अग्रवाल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर



जयभारत एम्बुलेंस सर्विस प्रा. लि. रायपुर, छ.ग.

सिटी हॉस्पिटल के आगे, कोतरा रोड,

सतौगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

टाटा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. SHUBHAM MALICK

Patient ID : S03

Age / Gender : 28 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:26 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:44 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
PLANT CBC			
Hemoglobin (Hb)*	13.6	13 - 18	gm/dL
Total Leucocytes (WBC) Count*	6580	4000 - 10000	cell/cu.mm
Neutrophils	60	40 - 80	%
Lymphocytes	32	20 - 40	%
Monocyte	4	2-10	%
Eosinophils	04	1 - 6	%
Basophils	0	0 - 1	%
Platelet Count*	2.52	1.5 - 4.5	lakh/cumm
Erythrocyte (RBC) Count*	5.12	4.7 - 6.0	mil/cu.mm
RDW-SD	42.1	37.0 - 54.0	fl
RDW-CV	13.2	11.6 - 14.0	

Blood Group ABO & Rh Typing, Blood

Blood Group (ABO typing)	B
RhD Factor (Rh Typing)	Positive

Random Blood Sugar (RBS)

Blood Glucose Random	86.2	70.00 - 160.00	mg/dL
Note			

Dr. Sonal Kedia
MBBS, MD (PATHOLOGY)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD, RAIPUR (C.G.)
M.B.B.S., MD

अनुपम डायग्नोस्टिक्स

ISO 9001:2015
CERTIFIED CENTRE

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्दिरा गणधीर हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर



रायपुर जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

रायपुर जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

सिटी हॉस्पिटल के आगे, कोटरा रोड,
सतीगुडी चौक, रायपुर (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राजा मेमोरियल हॉस्पिटल, मुंबई

Patient Name : MR. SHUBHAM MALICK

Age / Gender : 28 years / Male

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Contact No. : -

Patient ID : S03

Medical Option Code :

Collection Time : Apr 20, 2024, 11:26 a.m.

Reporting Time : Apr 20, 2024, 03:44 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
Bilirubin - Indirect	0.26	0.2-0.8	mg/dL
SGOT	23.1	0-35	U/L
SGPT	26.1	0-45	U/L
Alkaline phosphatase	78	40-128	U/L
Total Protein	7.42	6.4 - 8.3	g/dL
Albumin	4.23	3.2 - 5.2	g/dL
Globulin	3.19	1.8 - 3.6	g/dL
A/G Ratio	1.33	1.2 - 2.2	

Dr. Sonal Kedia
MBBS, MD (PATHOLOGIST)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIPUR



अनुपम डायग्नोस्टिक्स

Believe in the Best

डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्दिरा अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एन.आई. हॉस्पिटल, रायपुर



जयभारत पश्चिमपुर, पंच राता पुष्पाग म. रायपुर

सिटी हॉस्पिटल के आगे, कोतरा रोड,

सतीगुदी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

लटा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. SHUBHAM MALICK

Patient ID : S03

Age / Gender : 28 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:26 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:44 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

(if > = 200 it is DM.(Atleast two occasion))

Lipid Profile

Cholesterol-Total	170	Desirable: <= 200 Borderline High: 200-239 High: > 240	mg/dL
Triglycerides	135.1	100-170	mg/dL
HDL Cholesterol	43.2	30-60	mg/dL
LDL Cholesterol	99.78	Optimal < 100 Near / Above Optimal 100-129 Borderline High 130-159 High 160-189 Very High >or = 190	mg/dL
VLDL Cholesterol	27.02	5-40	
CHOL/HDL Ratio	3.94	1.0-4.4	
LDL/HDL Ratio	2.31	0.50-3.00	

Note

1. 8-10 hours fasting sample is required.

Dr. Sonal Kedia
MBBS, MD (Pathology)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIPUR (C.G.)
M.B.B.S., MD



अनुपम डायग्नोस्टिक्स

Believe in the Best

डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्दरप्रस्थ अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

रायगढ़ जिला अस्पताल के सामने रायगढ़ पुलिस थाने के सामने

सिटी हॉस्पिटल के आगे, कोतवा रोड,
सतीशगढ़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

टाटा मेमोरियल हॉस्पिटल, मुंबई

Patient Name : MR. SHUBHAM MALICK

Age / Gender : 28 years / Male

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Contact No. : -

Patient ID : S03

Medical Option Code :

Collection Time : Apr 20, 2024, 11:26 a.m.

Reporting Time : Apr 20, 2024, 03:44 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

Urobilinogen

Normal

Nitrite

NIL

Microscopic Examination

Epithelial Cells

2-4

0-2

/HPF

Pus Cell (WBCs)

0-2

0-2

/HPF

RBC

NIL

0-1

/HPF

Cast

NIL

0-0

/HPF

Crystals

NIL

/HPF

Bacteria

NIL

Other

NIL

kidney function test With Electrolyte

Urea *

26.1

11- 40

mg/dL

Blood Urea Nitrogen-BUN*

12.20

5- 20

mg/dL

Creatinine*

0.71

0.5 - 1.2

mg/dL

Uric Acid*

4.6

3.5 - 7.0

mg/dL

Lft, Liver Function Test

Bilirubin - Total

0.48

0.2-1.2

mg/dL

Bilirubin - Direct

0.22

0.2-1.0

mg/dL

Dr. Sonal Kedia
MBBS, MD (PATHOLOGY)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
RAIPUR (C.G.)



अनुपम डायग्नोस्टिक्स

ISO 9001:2015
CERTIFIED CENTRE

Believe in the Best

डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्राक्स अस्पताल, दिल्ली

Ex. Consultant : एम.एन.आई. हॉस्पिटल, रायपुर



जबलपुर एम्बेस्सी रोड पर रायपुर का रास्ता

सिटी हॉस्पिटल के आगे, कौतरा रोड,
सतीगुदी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

लटा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. SHUBHAM MALICK

Patient ID : S03

Age / Gender : 28 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:26 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:44 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

2. Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol

3. As per NCEP guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

Urine Routine Examination

Physical Examination

Volume	30	20 - 50	ml
Colour	pale yellow		
Appearance	Clear	Clear	
Reaction (pH)	6.0		
Specific gravity	1.020	1.003 - 1.030	

Chemical Examination

Urine Glucose (Sugar)	NIL
Urine Protein (Albumin)	NIL
Urine Ketones (Acetone)	Absent
Billurubin	NIL

Dr. Sonal Kedia
MBBS, MD (PATHOLOGIST)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIPUR
M.B.B.S., MD

ANNEXURE – X: PHOTOGRAPH OF LED LIGHT

PHOTOGRAPH OF LED LIGHTS





ANNEXURE – XI: PHOTOGRAPH OF FLY ASH BRICKS
UTILIZATION

PHOTOGRAPH OF FLY ASH BRICKS UTILIZATION



ANNEXURE – XII: PHOTOGRAPHS OF GREEN BELT
AND GREEN BELT VERIFICATION REPORT

PHOTOGRAPH OF GREENBELT







PHYSICAL VERIFICATION, MONITORING & EVALUATION OF PLANTATION

M/s Shambhavi Ispat Pvt. Ltd.

Vill -Gerwani, Tah & Distt Raigarh (C.G.)

Year – 2025



Evaluation & Verification done by: -

ARIF ALI

Rtd. Dy. CF. (SFS) CONSULTANT
(ENVIRONMENT AND FOREST) RAIPUR

**EVALUATION & VERIFICATION OF
GREEN BELT**

M/s Shambhavi Ispat Pvt. Ltd.

Vill -Gerwani, Tah & Distt Raigarh (C.G.)

Year 2025



Evaluation & Verification by: -

ARIF ALI

**Rtd. Dy. CF. (SFS) Consultant
(Environment and Forest) Raipur**

Executive Summary

M/s Shambhavi Ispat Pvt. Ltd. located at Vill -Gerwani, Tah & Distt Raigarh (C.G.) The company is having fifteen ton Induction Furnaces with a production capacity of 198,000 MTPA and having a Rolling Mill (through hot charging) having a capacity of 195,000 MTPA and main products are steel Ingots and MS billets

The permitted land of the factory is 10.417 hectares / 25.8 acres and company has developed green belt in an area around 8.514 acres / 3.45 hectares of land which is around 33% of total factory area.

The environment clearance and permission granted by CECB Raipur and also direction received from the regional office from time to time requires that plantation should be done by the industrial units within plant premises and nearby areas with local species covering 33% or 1/3rd of area. The green belt helps to capture the fugitive emission and attenuate the noise apart from improving the aesthetics of the region. Trees are also helpful in improving ecological condition as well as bio diversity status of the area. Of total project area 10.417 hectares / 25.8 acres, 33% area i.e. around 8.514 acres / 3.45 hectares is covered as green belt within the plant premises.

Physical verification and evaluation work has been done by our team in terms of number, girth of trees, height and survival percentage density and quality of plantation on 1st week of September 2025.

INTRODUCTION

M/s Shambhavi Ispat Pvt. Ltd. located at Vill -Gerwani, Tah & Distt Raigarh (C.G.) The company is having fifteen ton Induction Furnaces with a production capacity of 198,000 MTPA and having a Rolling Mill (through hot charging) having a capacity of 195,000 MTPA and main products are Steel Ingots and MS billets

S. No.	Products	Capacity
01	Induction Furnace (4*15 T) (MS Billets/ Steel Ingots)	1,98,000 MTPA
	Rolling Mill (Through hot Charging)	1,95,000 MTPA

Area Statement:

Total plant Area : - 10.417 hectares / 25.8 Acres

Existing Green Belt Area : - 3.45 hectares / 8.514 acres

Plantation Sites: -

1. Near crusher
2. Near main gate
3. Near store
4. Around the garden
5. Near admin office
6. Near tower
7. Near sub station
8. Near furnace
9. Around the boundary wall
10. Near parking area
11. Near weigh bridge

Need of Green Belt

Greenbelts are an effective mode of pollution and forming a sink of pollutants. Leaves with their vast area in a tree crown, sorbs pollutants on their surface, thus effectively reduce pollutants concentration in the ambient air, often the absorbed pollutants are incorporated in the metabolic pathway and the air is purified. Plant grown to function as pollution sink are collectively referred as green belts. An important aspect of a greenbelt is that the plants are living organisms with their varied tolerance limit towards the air pollutants. A green belt is effective as a pollutants sink only within the tolerance limit of constituent plants. Planting few, known pollutant sensitive species along with the tolerant species within a green belt however, do carry out an important function of indicator species.

Apart from function as pollution sink, green belt would provide the benefit like aesthetic improvement of the area and providing suitable habitats for animal and birds

Choosing Plants for Green Belts: - The main limitations for plants to function as scavenger of pollutants are plant interaction to air pollutants, sensitivity to pollutants, climate condition and soil characteristics. While making choice of plant species for cultivation in greenbelts. Due consideration has to be given to the natural factors of bioclimate, Xerophytes plants are not necessary good for greenbelts they with their sunken stomata can with stand pollution by avoidance but are poor absorber of pollutants.

Character of plants mainly considered for affecting absorption of pollutants gases and removal of dust particles are as follows.

For Absorption of Gases: -

1. Tolerance towards pollutants in question, of concentration that are not high to be instantaneously lethal.
2. Longer duration of foliage.
3. Freely exposed foliage.
4. Adequate height of crown.
5. Openness of foliage in canopy.
6. Big leaves (long and broad laminar surface).
7. Large number of stomatal apertures.

For removal of suspended particulate matter: -

1. Height and spread of crown.
2. Leaves supported on firm petiole.
3. Abundance of surface on bark and foliage.
4. Roughness of bark.
5. Abundance of axillary hairs.
6. Hairs of scales on laminar surface

MoEFCC (Ministry of Environment Forest and Climate Change) guidelines regarding green belt for industries –

The environmental factors related to green belt with economic, social consideration are given below

Land acquired shall be sufficiently large to provide space for appropriate treatment of waste water, the treated waste water left after maximum possible reuse and recycle should be used to raise green belt and to create water body for aesthetic, recreation and if possible for agriculture.

No forest land shall be converted into non forest activity for the sustenance or the industries.

The green belt between to adjoining large scale industries shall be 1km.

The green belt shall be 500 meters wide around the boundary limit of industry, for industry having odour problem it shall be 1 km wide.

In some environmental clearance issued for various types of projects by concerned regulatory authorities of central and state level, conditions reflected to green belt development of industrial projects mention that green belts of adequate width and density shall be provided 38% area to mitigate the effects of fugitive emission all around the plant with local species in consultation with the DFO as per the CPB guidelines.

Development of green belt consisting of three tier along the periphery of the project with native species is most important. Guideline for any type of industry, green vegetation is beneficial many ways leading to conservation of biodiversity, retention of soil moisture, recharge of ground water and maintaining pleasant climate of the area. Providing possible habitat for birds and animal. Green belt minimizes the builds up pollution level in urban/industrial areas by acting as pollution sinks. The three tier green belt will absorb pollutant release from industrial activity into atmosphere helps in effective pollution control. The main advantages of green belt in and around the industry are to control air and noise pollution. Trees helps in trapping particulate matter, removing CO_2 and other pollutants from air and by release O_2 into the air there by improving the air quality. Green belt reduce the intensity or should be reflect, refract or by absorb sound, if will function as barrier between industry and neighbourhood. The intensity reduction depends on the distance sound has to travel from source and width as the green belt.

Green belt also helps in soil erosion control through improvement of soil, quality and binding soil particles. It also contain water run offs and improve ground water infiltration and improving ground water recharge capacity. The green belt species should be selected based on the type/category of the industry and climatic conditions. Setting trees around and industry may not serve the purpose of green belt without considering the above elements.

Physical Verification and Evaluation of Green Belt

For assessing the quality and quantity of green belt developed by **M/s Shambhavi Ispat Pvt. Ltd.** Our team visited the site on 1st week of September 2025 and conduct all the necessary procedure to evaluate the green belt.

Tree Enumeration – Counting of all the trees and saplings carried out by direct field observation casualties were also recorded to calculate the survival percentage.

Assessment of Health of Plantation – Generally health of plantation is assessed by measuring height and grith of trees. Height is measuring approximately and grith is measuring on following basis

HEALTH	GIRTH
1.Upto 3year old tree	Girth is measuring 50 cm above the ground level
2.Upto 5year old trees	100 cm above the ground level
3.Older than 5 year	150 above the ground level

Survival percentage – The survival percentage of plantation is calculated on the basis of the formula i.e.

$$\frac{\text{No. of living plants}}{\text{Total no. of plant planted}} \times 100$$

Density - $\frac{\text{No of trees}}{\text{Area}}$

Grading of Plantation: -

A. Grading of project plantation on scale of 1 to 10

Qualitative	Survival	8.00
	Health of plantation	8.50
	Maintenance	7.50
	Sustainability	7.75

B. Grading of project plantation on scale of 1 to 10

Overall grading of plantation	Excellent	Very good	Good	Poor
	(8<10)	(5<8)	(3-5)	(>3)
		8.00		

Suggestion for Improvement

1. It is advice to adopt some fruit bearing and broad leaf trees.
2. Dust deposited in the leaves should be removed by washing the plants regularly.
3. Plant should be planted after one year age, Minimum 3' to 4' height.
4. Space between plants 2mx2m, 3mx3m and maximum 4mx4m according to maximum girth of trees after maturity.
5. Given priority to broader leaves plants.
6. Species – fast growing Species to be planted
7. Manure – Cow dung compost, Vermi compost for good edge
 Urea, DAP, Enzyme can be used.

M/s Shambhavi Ispat Pvt. Ltd.
PLANTATION EVALUATION & MONITORING REPORT

Enumeration Details of Tree Plantation in Premises of
M/s Shambhavi Ispat Pvt. Ltd.
Vill -Gerwani, Tah & Distt Raigarh (C.G.)

Year – 2025

1. Total area of the factory :- 10.417 Hectares / 25.8Acres
2. Total Green belt area :- 3.45 Hectares / 8.514 Acres
3. Total No. of Living Plants :- 8,467 Numbers
4. Survival percentage :- 85%
5. Site suitability :- Medium
6. Density :- 994 Trees / Acres

S.no.	Name of plant	Girth Class In CM			Total No. of plants
		0-20	21-40	41-60	
01	Peltaphorum	1,193	65	18	1,276
02	Neem	492	00	00	492
03	Gulmohar	2,092	88	12	2,192
04	Jamun	441	35	00	476
05	Cassia siamia	1,827	32	38	1,897
06	Ashoka	600	00	00	600
07	Karanj	679	00	00	679
08	Guava	345	00	00	345
09	Mango	383	00	06	389
10	Kathal	76	00	00	76
11	Palm	27	00	18	45
	Total	8,155	220	92	8,467

12/09/2025
Arif Ali
Retd. DY. C.F. (SFS)
Consultant Env. & Forest
Raipur (C.G.)



ARIF ALI

Consultant Environment and Forest

K-6 Anupam Nagar Raipur Chhattisgarh (492001)

Ref. No: - RPR/114/2025

Date: - 09.09.2025

CERTIFICATE

Name of Industry:

M/s Shambhavi Ispat Pvt. Ltd.

Location: Vill -Gerwani, Tah & Distt Raigarh (C.G.)

1. Total Area of the Factory:

- 10.417 hectares (25.8 acres)

2. Green Belt Development Details:

- **Area under Green Belt:** 8.514 acres
- **Percentage of Total Area:** Approximately 33%
- **Total Number of Live Trees:** 8,467
- **Plantation Density:** 994 trees per Acres
- **Location of Green Belt:** Inside the plant premises

3. Compliance Status:

- The green belt developed by the company has been reviewed.
- It has been found to be **satisfactory** and in **full compliance** with the prescribed **environmental norms and guidelines**.

Place: Raipur (C.G.)

11-9-2025
Arif Ali
Retd. DY. C.F. (SFS)
Consultant Env. & Forest
Raipur (C.G.)

Plantation Photographs



M/s Shambhavi Ispat Pvt. Ltd.

PLANTATION EVALUATION & MONITORING REPORT

Plantation Photographs



**ANNEXURE – XIII: COPY OF ONSITE EMERGENCY
PLAN**

ON SITE EMERGENCY PLAN 2025

Presented by

M/s SHAMBHAVI ISPAT PRIVATE LIMITED

Village – Gerwani, Block – Raigarh, Distt. – Raigarh (C.G.)

Name & Address Occupier

Samresh Kumar (M.D.)

Goh, Dhodhi, Belabarish,

Aurangabad (Bihar) - 824203

Mobile No. +91 99389-53704

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil – Raigarh, Distt. – Raigarh (C.G.)

INDEX

S.No.	Description	Page No.
1	COVER PAGE	01
2	INDEX	02
3	FOREWARD, NAME & ADDRESS OF OCCUPIER	03
4	SALIENT FEATURES	04
5	INTRODUCTION OF PLANT LOCATION LAYOUT	05 - 06
6	KEY PLAN, MAP SHOWING E.C.C., ASSEMBLY POINT & DANGEROUS AREA, FLOW CHART	07
7	OBJECTIVE OF ON SITE PLAN	08
8	MANUFACTURING PROCESS M.S. BILLETS	09
9	PROCESS FLOW CHARTS	10
10	FIRE HAZARDOUS SUBSTANCES	11
11	RISK ANALYSIS AND POSSIBLE HAZARDS	12 - 14
	IMMEDIATE ACTION TO BE TAKEN IN CASE OF MISHAP IN LABORATORY	15
	PRECAUTION TO BE OBSERVED AT JOBS AT HEIGHT	16
	FIRE HAZARDS AND PREVENTION	17
	SAFE USE OF ELECTRICITY	18 - 20
12	EMERGENCY CONTROL CENTER	21 - 23
13	ASSEMBLY POINT	24
14	EMERGENCY ACTION PLAN SET-UP CHART	25 - 27
15	ACTION PLAN	28 - 30
16	POST EMERGENCY OPERATION	31
17	EMERGENCY CREWS	32
18	RESPONSIBILITIES OF THE EMERGENCY CREWS	33
19	ROLL CALL SYSTEM OTHER / ACTION PLAN	34 - 37
20	MOCK DRILL, REHARSAL TRAINING SCHEDULED	38 - 40
21	MUTUAL AID PROGRAM	41
22	MEDICAL FACILITIES AT NEAR SITE	42
23	HOSPITALISATION FACILITIES NEAR SITE	43
24	LIST OF IMPORTANT STATE/ LOCAL AUTHORITY	44
25	VERIFICATION	45
26	M.S.D.S	46-54

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

FOREWARD, NAME & ADDRESS OF OCCUPIER

On-site Emergency plan of **M/s SAMBHAVI ISPAT PRIVATE LIMITED** Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.) in a book form is released herewith for all employees concerning with handling of the Emergency if arises any, due to reasons whatsoever, related to operations, maintenance and functioning of the plant.

The plan is a statutory requirement under the Indian factories act 1948 with an intention to arrange and gear – up the facilities to combat the emergency if any, in an effective way to ensure minimum possible loss to the human beings and to the properties involved and to make the situation in order within minimum possible time period.

As such, I request all employees to actively participate in the action plan of On-site Emergency plan as per role given to them. To make ourselves operational at any stage of emergency.

Sign. Of Occupier

Name & Address Occupier

Samresh Kumar (M.D.)

Goh, Dhodhi, Belabarish,
Aurangabad (Bihar) - 824203
Mobile No. +91 99389-53704

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

SALIENT FEATURES

1.1 Name of Occupier/Director

S.No.	Name of Members	Address	Mobile No.
1	Samresh Kumar (M.D.)	Goh, Dhodhi, Belabarish, Aurangabad (Bihar) 824203	+91 99389-53704
2	Amit Kumar Agrawal (Director)	Gandhiganj, Near Railway Station, Raigarh (C.G.)	+91 97550-34298
3	Anil Kumar Agrawal (Director)	Laltanki, Near Kewdabadi Bus Stand, Raigarh (C.G.)	+91 94252-50093
4	Pawan Kumar Agrawal (Director)	Laltanki, Near Kewdabadi Bus Stand, Raigarh (C.G.)	+91 99932-91414
5	Santosh Agrawal (Director)	Park City, Kabir Chowk, Raigarh (C.G.)	+91 93002-55000
6	Shyamlal Agrawal (Director)	Dhimrapur Chowk, Raigarh(C.G.)	+91 99811-70665

- | | | |
|-----|----------------------------|-------------------------------|
| 1.2 | D.I.C. Regd. No. | 11302025084705 |
| 1.3 | Factory License No | 58604/2021/2(cb)CG13/381/5513 |
| 1.4 | Connected Load From CSPDCL | 19750 KVA |
| 1.5 | Max No. Of employees | 110 |

S.No.	Name of Product	Production Capacity/ Year
1	Induction Furnace (4x15 T) (MS Billets/Steel Ingots)	1,98,000 TPA
2	Rolling Mill (Through Hot Charging)	1,95,000 TPA

- | | | |
|-----|-------------------|------------------------------------|
| 1.6 | Email | shambhaviispat@gmail.com |
| 1.7 | Pollution Consent | |
| | Air | 9965/TS/CECB/2024 Dated 12/03/2024 |
| | Water | 9965/TS/CECB/2024 Dated 12/03/2024 |

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

INTRODUCTION OF PLANT LOCATION LAYOUT

Developments and advancement in science have made impossible. A few decades back the thoughts and ideas of human being, which were dreams, have now become reality. Man has been continuously conquering over nature. This advancement in science will continue and shall continue to bring more and more comforts and amenities to human being by adding new and unknown dimension to technology. Similarly in Industrial Development man has made tremendous Advancement since the first day of inventing to generate and use FIRE and several other source of energy like: Petrol, Gas, Electricity, Nuclear Fuel has been invented. All these source of Technology Science and Energy on one side brings happiness and comforts, when used properly and wisely, but on the other hand to create agonies and Disasters if misused, mishandled, neglected, indiscriminately used or carelessly used.

In view of the above facts the of **M/s SAMBHAVI ISPAT PRIVATE LIMITED** Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.) is setup for manufacturing of **Ingot/Billet & TMT Bar** on Site Emergency plan on properly studying through the process of manufacturing, types of Raw Materials. Energy required development of human personal, types of plant and machinery and plant location etc. This site emergency plan has been prepared in brief to provide all information.

Regarding dangers, including health hazard and the measures to overcome such Hazards arising from the exposure to or handling of the material or substances in the manufacture, transportation storage and other process, workers engaged in the factory and to the general public living in the vicinity of the factory the safety measures required to be taken in the event of an accident taking place, It is hoped that this emergency plan shall further help to safeguard health.

PLANT LOCATION

The Factory of **M/s SAMBHAVI ISPAT PRIVATE LIMITED** Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.) it is well connected with Raigarh - Ambikapur Road line. The site is not located at densely populated area at the plant is scattered in around 3.58Hect.

HUMAN HABITATION & AMENITIES:

The plant of **M/s SAMBHAVI ISPAT PRIVATE LIMITED** Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.) in about 15 Km away from Raigarh the nearest human habitation is –Village - Pali, Police Station, Petrol Pump, Hospital, Market, and school building is situated Within 8 Km range from factory.

HUMAN HABITATION NEAR PLANT:

S.No	Name of The Village	Population	Distance From Plant
1	Delari	855	0.5 Km.
2	Gerwani	2219	0.8 Km.
3	Taraimal	3951	4.0 Km.
4	Pali	567	2.0 Km.

NEAR HAZARDOUS FACTORY

S.N.	Name of person of Management	Factory Address	Distance from factory	Mobile No.
1	Shri Ajay Singal	M/s SALASAR STEEL AND POWER LIMITED Village – Chiraipani, Tehsil & Distt. – Raigarh (C.G.)	1.00 Km	98933-08272
2	Shri Ashok Agrawal	M/s S.S. STEEL & POWER Village – Pali, Tehsil & Distt. – Raigarh (C.G.)	1.80 Km	91793-74497
3	Uttam Kumar Agrawal	M/s AGROHA STEEL AND POWER PVT. LTD. Village – Pali, Tehsil & Distt. – Raigarh (C.G.)	1.20 Km	98931-23453
4	Sanjeev Kumar Upadhyay (Director)	M/s CHANDRAHASNI ISPAT PVT LTD Village – Gerwani, Tehsil & Distt. – Raigarh (C.G.)	1.20 Km	91747-68383

AMENITIES

1	Petrol Pump	1.0 Km.
2	Market / Local Bazar	0.6 Km.
3	Jindal First Aid Center	8.5 Km.
4	Kirodimal Government Hospital	15.0 Km.
5	Police Station - Punjipathara	10.0 Km.

PLANT LAYOUT

The overall plant layout is divided into two parts viz.

(A) MAIN PLANT AREA.

(B) ADMINISTRATION OFFICE

Since the areas mentioned at (B) above is not engaged with any manufacture process of staking of raw materials and finished products, there is no risk and danger in these areas: Yet, the impact of any emergency, if arises at main plant, may effects these areas. Hence, these areas are also incorporated in the on-site emergency action plan **M/s SAMBHAVI ISPAT PRIVATE LIMITED** Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.) Plant is located at outside the village that is far away from Residential area. Administrative buildings, / offices are closely situated to the main entrance gate of the main plant.

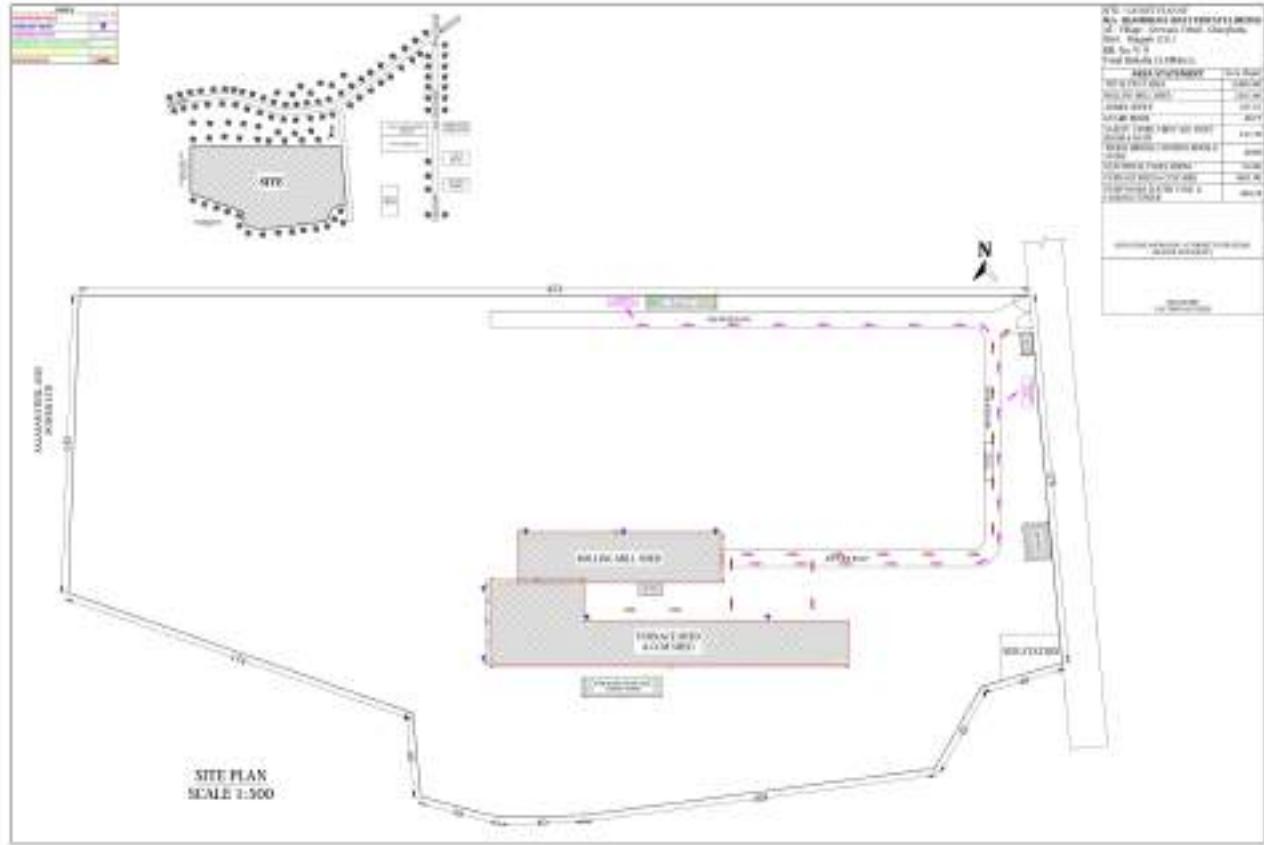
NECESSITY OF ACTION PLAN

EVEN A SINGLE ACCIDENT FAILS ALL WISE PLANNING:

In-spite of several effort to prevent the accidents in an industry, the possibility of occurrence of any accident cannot be ignored, that may result adverse effect on the people, environment and property, considering all aspects of possible hazards and safety precaution to prevent them further planning has been adverse effect may minimize with the help of ON-SITE and OFF-SITE prevalent authorities and public. It is in concept that Emergency planning becomes necessary. This planning is helpful in reducing all kinds of damage and hazard. The Emergency Plan/Action Plan/ Disaster control plan is nothing but an action plan for handling emergencies in an industry. Therefore, we have taken up such planning for this unit.

Key plan/layout plan is enclosed for reference.

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
 Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)



OBJECTIVE OF ON-SITE PLAN

The main objective of involving the Emergency and Disaster Control Plan is, to create a procedure and infrastructure based on the combined resources of the factory as well as the external services, with a view to minimize damage and losses arising out of emergency and disastrous situations in the plant premises, which may directly or indirectly affect the employees, the property of the company and the local community.

The objectives may further be classified as under:

- (a) To identify casualty, damage and, to carry out the rescue operation and the treatment of persons affected by the emergency.
- (b) To safe guard other persons not affected by the emergency so far.
- (c) To keep the damage to the property and to the environment at a minimum level.
- (d) To initially contain the impact of incident and ultimately bring the incident under control.
- (e) To provide authentic information to outsiders and the media.
- (f) To accomplish rehabilitation of the affected persons, if any.
- (g) Preservation of relevant records.
- (h) To investigate in to the causes of emergent situations with a view to prevent its recurrence in future.

MANUFACTURING PROCESS OF MS BILLET/INGOT

Various grade of scrap economically chosen is melted in the crucible of induction melting furnace. The scrap is fed till a molten metal leaves up to the top level is achieved. During scrap melting rust and foreign unwanted residue come into the shape of slag, this is generally called as burning loss of the scrap and is periodically removed.

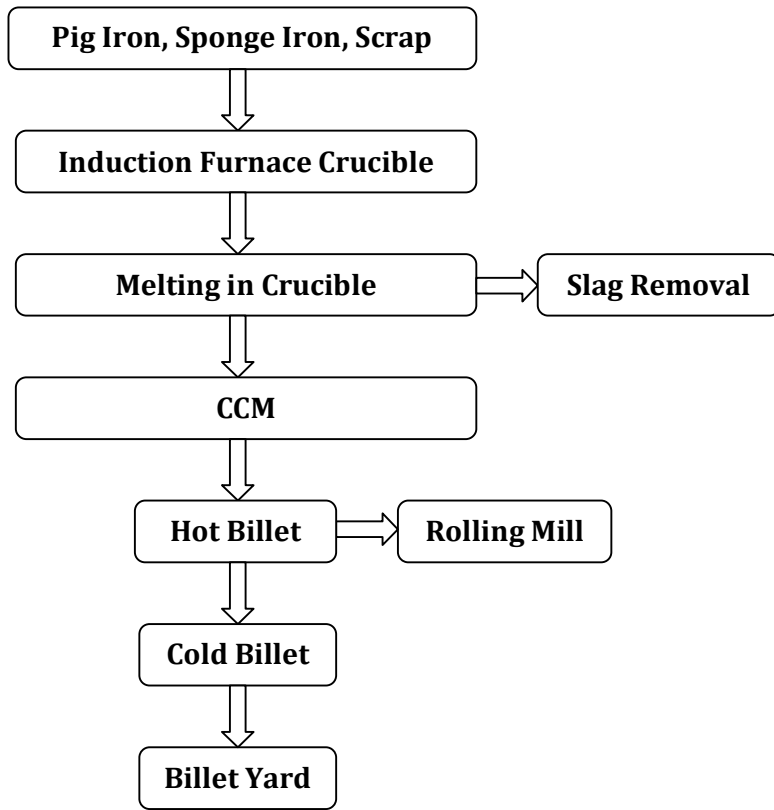
The molten metal's chemical grade is obtained by alternation of scrap qualities. The final elements of the metals are adjusted by addition of Ferro alloys, deoxidizers like ferrosilicon and Aluminium.

The temperature of the molten steel is tested to a maximum of 1650°C and the furnace is tilted to offload the liquid steels into Tundish PLOT. The Tundish PLOT is fixed with refractory nozzles by which the molten steel is sent for casting into steel Billets.

The bottom pouring arrangement consists so a grooved bottom plate in which BP set refractoriness area set. On the late first at centre a central column of cast is fixed with refractory sleeves and funnel. Ingot moulds are set on BP Set in such a manner that the holes of BP sets are kept in centre of the ingots moulds individuals' ingots room.

From Tundish the metal flow is in force into centre column and by bottom pouring it rises through BP sets in to ingots moulds. During the process when ingots are formed and solidify the CI ingots moulds are stripped. The runner and risers are knocked down and ingots is separated and stacked for dispatch to rolling mill.

PROCESS FLOW CHARTS



ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

FIRE HAZARDOUS SUBSTANCE

S.N.	Name of Hazards Chemical	Details of Storage Arrangement				Other security arrangement in leakage condition	Area affected in case of Leakage	P.P.S. To be used.
		M.S.D.S. Enclosed Yes / No	Maximum Storage Capacity	Mode of storage (Stored in Bags, Ground/Underground, Overhead tank its capacity)	Controlling arrangement (Dike valve/Bund valve etc.)			
1	L.P.G. (For General Use)	Yes	20	14.5 Kg Cylinder	Regulator	Gas detector, emergency shut-off valve, water spray, fire extinguisher	Storage shed, nearby working area	Fire-resistant gloves, safety shoes, face shield
	L.P.G (For Commercial use)	Yes	35	19.0 Kg Cylinder	Regulator	Gas detector, emergency shut-off valve, water spray, fire extinguisher	Storage shed, nearby working area	Fire-resistant gloves, safety shoes, face shield
2	Oxygen Cylinders for cuttings	Yes	60	7.0 CUM Cylinder (Separate Open Shed)	Regulator	Valve cap, leak test, no oil/grease, emergency isolation	Storage area, confined spaces	Safety gloves, goggles
3	Diesel (High Speed Diesel)	Yes	300 Litres	200 Litre Drum	Dike Wall	Fire hydrant, foam extinguisher, spill containment	Fuel storage area	Hand gloves, safety shoes

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

RISK ANALYSIS AND POSSIBLE HAZARDS

After studying of process we found the most dangerous points of possible. Fire and other accidents and listed them below in order of their seriousness. Most dangerous part is **Induction Furnace**.

S.N.	Operation process Equipment / areas	Possible hazardous	Precautionary measures	Measure to be taken if hazardous occurs.
1A	Induction Furnace	Fire hazard caused by flames	a. Fire fighting equipments are installed in bay b. Water hose provided Near to the dump & removed. c. No smoking zone declared d. Furnace operators staff and labours are trained to fight fire	a. Fire extinguishers shall immediately used b. Water hose will be operated to set out the fire c. Emergency alarm to be put on to signal the accident d. First aid shall be rushed to the site by the security staff
B	Furnace is Leaked	IN case of furnace crack, molten metal may leak causing splash of hot metal	a. GLD (Ground Leak Detector) Safety Device Installed b. Continuous monitoring of furnace shell is done to maintain and observe proper temperature c. Movement of staff and labours is not permitted near to the furnace d. Heat zone sign displayed near to the furnace e. Safety shoes safety goggles hand gloves apron and safety helmet provided to workers	a. Immediately drain out the furnace by pouring or tapping out b. Molten Slashed Metal is allowed to cool down before removing. c. Further process is stopped till repairs are conducted. d. In case of fire fighting equipments are used to set out the fire.
C	Slag Spot	Leakage due to breakage in slag PLOT	Frequent checking of slag PLOT to be observed.	Further process is stopped till slag cool down and after cooling of the slag removed carefully
D	Molten Metal	Molten hot metal may fall on human body	Only trained labourers should be allowed with proper heat proof dress /gum boots/aprons	First aid should be given send to medical for further treatments
2	Furnace Transformer	Fire hazard possible	a. Furnace should be operated with prescribed load b. Carefully changing of tap on load. c. Temperature of furnace / transformer should be observe continuously d. Furnace oil level/quality monitored regularly e. Unauthorized person are restricted no entry boards should be provided	Power line should be immediately put off a. Fire fighting steps should be taken to stop fire b. Further processing must be stopped till repairing is over
3	Control Room	Electrical Shock possible due to leakage.	A. Earth leakage circuit breaker is installed. B. Shock precaution and treatment chart are displayed. C. All instruments are properly earthed.	A. In the event of electric leakage main supply should be immediately shut off. B. Shock treatment and medical aid shall be immediately provided.

4	Electrical Transformer	Electrical power	(B) Shock proof insulated PCC Platform.	Cut off the power supply treat the injured for electrical shock
		Fire (A)	Fire fighting equipments: (i) Sand buckets. (ii) Fire extinguisher.	Immediately fight fire with available resources summon outside help if necessary.
	Water Tank	Drown of a man is possible	A. Cooling pond / water tank should be fenced or covered. B. Worker must not be permitted for using the pond / pond for general utility.	Drowned person should immediately be given first aid. If any injury may cause then after giving first aid to person/worker refer for the further treatment to Doctor/Hospital.
6	Control Rooms / Electrical Sub Station	Electrical Shock possible due to leakage.	A. Earth leakage circuit breaker is installed. B. Shock precaution & treatment charts are displayed. C. Operator should be provided with insulated shoes. D. All instruments are properly earthed.	A. In the event of electric leakage main supply should be immediately shut off. B. Shock treatment & medical aid shall be immediately provided.
7	E.O.T. Crane Movement	Hoist Rope Breakage possible.	a. No movement of strange people in crane bay will be permitted. b. Frequent check of the rope and other load bearing material shall be done. c. Light indication movement of crane shall be provided. d. Prescribed load shall only be allowed.	Weak Rope shall be immediately replaced.
8	CCM Tundish is leaked splashed	In case of tundish shell and lining crack, molten metal may leak causing splash of hot metal. In case of excessive pouring the metal may splash from tundish.	1. Continuous monitoring of ladle shell is done to maintain and observe proper temperature. 2. Purging is controlled carefully. 3. Liquid metal is not filled till the brim; free board is maintained till the safe height. 4. Dry compound only is used. 5. Movement of staff and labours is not permitted below the ladle. 6. Heat zone sign displayed near to the ladle. 7. Safety shoes, safety goggles, hand gloves, apron and safety helmet provided to workers.	1. Immediately drain out the ladle by pouring or tapping out. 2. Molten splashed metal is allowed to cool down before removing. 3. Further process is stopped till repairs are conducted. 4. In case of fire, fire fighting equipments are used to set out the fire.
9	Hot cast billet at discharge point is leaked.	Due to improper cooling at mould or shell formation being weak molten metal may leak causing splash of hot metal	1. Cooling water flow is checked very carefully. 2. The hot cast billet temperature is also checked regularly. 3. Water quality is also checked and inflow out flow water temperature in the cooling jacket is checked regularly.	1. Stop the pouring immediately by plugging the tundish and or putting launder. 2. Drain out the remaining liquid metal in the mould. 3. Molten splashed metal is allowed to cool down before removing. 4. Further process is stopped till repairs are conducted.

10	Hot cast billet at discharge point is entangled at the hot billet shearing machine	Due to excessive cooling at mould the billet may not be hot enough to get cut through the shear.	Temperature of the billet being cast is monitored regularly.	1. In case of non operation of the hot shear cut the billet by oxygen and acetylene torch. 2. In case of further problem stop the casting process. 3. Resume after rectifying the problem.
11	Rolling Mill Division	Rolling stand jamming of rolled products	Rolling operation to be stopped immediately	Open stand jammed rolls removed after cooling down. Frequent checking should be done.

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

IMMEDIATE ACTION TO BE TAKEN IN CASE OF MISHAP IN LABORATORY

S.No.	Accident	First Aid
1	Combustible liquid	Don't run about, lie down and roll on the floor wrap the victim by blanket.
2	Large Heat burn	Treat with gauze, thoroughly soaked in normal saline.
3	Small heat burn	Treat with antibiotic cream.
4	Skin of eye effected with Caustic liquid	Immediately wash with clean water. Wash off Caustic liquid from the skin or Eye at the nearest tap
5	Skin affected by:	
	A. Acid	Apply sodium bicarbonate solution.
	B. Alkali	Apply dilute ammonium chloride solution.
	C. Bromide	Apply dilute ammonia as quickly as possible. Then apply a thick paste of Sodium Bicarbonate and water.
	D. Silver Nitrate	Apply normal saline solution.
6	Discomfort due to treating small quantities of chloride or Bromium	Cautiously sniff ammonia gas from bottle of dilute ammonia solution.
7	Chemical in mouth	Split chemical from mouth and wash mouth thoroughly with water.
8	Cuts	Apply Mentholated spirit and soft cream.

PRECAUTION TO BE OBSERVED WHILE PERFORMING JOBS AT HEIGHT

1. Use proper and strong ladder.
2. Put ladder in proper place.
3. Clean oil and grease from the floor or place.
4. Attach hook at the top of the ladder.
5. A slight mistake may cause fatal accident.
6. If required engage man to hold the ladder on the ground.
7. Check the site before work.
8. Tie up the tools in use to avoid failing.
9. Always use proper tools.
10. Fully understand the work to be done before going at Height.
11. Forget not that the safety belt is a life saving device for those who are working at High Level

USE THE PROPER TOOLS

1. Don't use improper tools
2. Tool should be in good working condition.
3. Take help of Supervisor for proper selection and use of particular tools.
4. Choose spanner of exact size.
5. Electrical tools must be tested first before use.
6. Tools must be used properly and only when their exclusive use is required do not use knife when screwdrivers is required.
7. Do not through the tools to pass it on to your fellow worker it is a wrong practice. It may hit or injure.

FIRE HAZARDOUS AND ITS PREVENTION

First form of energy known to human being is fire. Man has worshiped it but uncontrolled let fire cause HAVOC and can be damage to un extents.

FOR PREVENTION FIRE FOLLOWING POINT ARE SUGGESTED

1. Whenever highly inflammable goods are stored, electrical appliances should not be used continuously.
2. Do not kept waste papers, waste wooden piece along with inflammable goods at a place.
3. Store inflammable liquids, lubricants in proper container, tins with tight lid and also put label on it.
4. Knowledge of fire extinguisher should be provided to the employees where the equipment is places and not in use.
5. Keep open fires away from bedclothes.
6. All should be educated about the consequences of storing petrol, kerosene near store and tools room.
7. Inspect your strong room/area periodically and put inflammable items, clothes, etc. away from store/ tools rooms.
8. Alternative proves fruitful in fighting fire hazards and saving society from huge loss of person and property
9. Keep fire-fighting equipments in good working condition.
10. Train security personnel in fire fighting to face situation in mishap.

SAFE USE OF ELECTRICITY

To avoid Electric shocks it is very important to understand how to use electricity very safely. It is 100% possible to avert the electric shock at all times. A little alertness on the part of electricians, electrical supervisors and workers may 100% avoid any electrical shock accident. It is therefore advised that the electrician should always observe the following:

1. He must wear rubber-soled shoe.
2. He must use rubber gloves to attend electrical repair.
3. He should ensure to switch off the line before attending to work.
4. He should check the point of work by a Electric Tester, to ensure that there is no at point.
5. All the point of work should be properly earthed.

It has been observed that most of the Electricians know about the above but still from time to time news of accidents is heard. It is always due to negligence, over confidence or hurry to finish the work, carelessness in attending the works. It is therefore advised to always alert the electricians of these.

It is also advised that every equipment and cable must be properly isolated with suitable isolated device and each of this isolation is identified by proper marking.

The suitable isolators are installed, properly marked, locked and out point circuit should be suitable earthed.

It has also been observed that sometimes explosion occurs in Oil Circuit Breaker and in Oil filled Transformer. Such explosion takes place only when oil is overheated due to increase in the temperature of winding, which may be result of overloading. To prevent over loading safety devices and CONTROL equipments are properly installed. The current is constantly monitored and at the increase of current the load is reduced. Besides this oil temperature gauge is installed in transformer and a hotter is also installed the moment temperature increases that the specified limit the hotter get activated and then immediately load is reduced or is switched off to cool the transformer. Besides this periodical testing of transformer and cable and oil should be done to avoid explosion.

CABLES

Cables must secure properly. It must be protected from all physical hazards and damages. All junction boxes must be protected and well supported. Checking of earthling is necessary. All junction boxes should be fitted with compound.

TRANSFORMER

Distribution Transformer

Distribution Transformer shall be located in substation in free air and shall be mounted at Height on Girder to protect from physical damage. Temperature of oil should be continuously monitored and the quality of oil should be checked periodically.

SUB-STATION

Sub-Station must be properly fenced and to avoid entry of replies such as snakes etc., round rabbles must be properly and evenly distributed on ground.

THE FOLLOWING CHECK POINTS MUST BE CONSIDERED:

- a. Checking the quantity of oil.
- b. Checking of any leakage from transformer.
- c. Checking of gasket or radiator tube or transformer.
- d. Suitable extinguisher used must be installed nearer to the transformer.
- e. Checking of CONTROL CENTER switches, starters.
- f. All operating handles and reset buttons should be free for operation.
- g. Checking of all type of protection relay.
- h. Terminal of cables must be checked periodically.
- i. Checking of contacts and replacing them.
- j. Periodic checking of MOCB and ACB.

The electric supply of the factory comes from sub-station through 33 KV line substations with all facilities and protection such as drop out fuse to protect over current, earth fault relay, MOCB, SF6 etc. and lightening arrester, in the sub-station.

The Safety Operations in the sub-station are as follows:

- a. Before operations checking of all relays fixed in 33 KV lines
- b. If any relay or equipment found defective it must be immediately informed to Senior Officers and rectified.
- c. To attend to any work in sub-station from General Manager (Works) is taken and also CSEB is informed and shutdown is taken from CSEB sub-station. First of all the conductors and capacitor banks are discharged by earthing through a rod. They work is done. After completion of work information given to G.M. works and then to CSEB and then line is charged.

SUPPLY FAILURE

In case fails due to internal problem or due to fault in CSEB supply then:

- a. First of all MOCB is tripped and fault detected.
- b. Following safety equipments are provided to Electrician:
 - 1. Hand Gloves
 - 2. Goggles
 - 3. Safety Apron.

After detection of fault it is rectify and informed to General Manager (Works) before switching on the line. Then the line is switched on.

- a. In case of failure from CSEB side they are contacted immediately to rectify the fault.
- b. The following safety equipments are provided in CONTROL CENTER room for any emergency.
 - a. First Aid Box
 - b. Artificial Respiration Chart
 - c. Discharge rod
 - d. Hand Gloves
 - e. Asbestos apron
 - f. Goggles
 - g. Fire Extinguishers and Sand Buckets.

SPECIAL CARE FOR USE OF ELECTRICAL APPLIANCES:

We have seen that a number of accidents take place from time to time in any nation every year due to electro-quin. It may be surprising to note that carelessness and ignorance is the root cause in almost all such accidents.

TO AVOID SUCH ACCIDENTS, FOLLOWING SAFETY MEASURES ARE SUGGESTED:

1. Do not use damaged plugs, wires, switches etc.
2. Do not touch the electrical appliances with screwdrivers etc., until and unless the supply is cut off.
3. Do not touch the appliances with wet helmet when supply is there.
4. Do not connect a number of appliances in a single point. Risk of fire will be obvious.
5. Do not keep wires hanging or loose but fittings should be proper and safe.
6. Use of only three-pin plug is advised as one point has earthing facility.
7. In ceiling fans, nuts and safety pins fitted must be checked periodically
8. Connect the supply to appliances through plugs only do not insert naked wires, matchsticks or wooden stick.
9. Defective appliances should be immediately rectified through a competent person.
10. Supply should be cut off before attending a repair of equipment.
11. Keep heaters or room heaters away from the material, which are sensitive to fire.
12. Use the appliances as long as you actually require. After the job is done switch off the supply to save energy.
13. Fuse wire of proper size should be used.
14. Clean the dust etc. of appliances before using.
15. Do not rush to save electrocuted person without taking proper care.
16. Before touching the affected person switch off the main.
17. Use rubber insulated tools and rubber hand gloves for working during supply or in its line.
18. Where there is danger caution board or HT line, please keep yourself away from site.
19. Always prefer equipment of ISI marked. The above precaution certainly saves from the accidents in factory as well as at homes.

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

EMERGENCY CONTROL CENTER

EMERGENCY CONTROL CENTER (E.C.C.) is established at the chamber of Factory Manager' office.

The Chief Incident Controller in association with, the key personnel will manage the E.C.C. and Sr. Officers of outside agencies called in for assistance. No other personnel shall be allowed to access to the E.C.C.

FACILITIES AVAILABLE AT E.C.C.: The Emergency CONTROL CENTER is equipped with the following data/information:

- a. Safety data pertaining to the hazardous materials likely to cause emergency.
- b. Procedure of major and special fire fighting, rescue operations, first-aid, artificial respiration system, etc.

The following facilities are available at emergency

1. IMPORTANT PERSONAL PROTECTIVE EQUIPMENT

No. of emergency respirators kits available	No. of self contained breathing apparatus	No. of air line respirators	No. of canister respirators	Other ppe's	neutralization facility provided for Neutralising chemicals
1	1	1	1	Rubber Hand Gloves Listed Below	Lime Pit

Have been kept in emergency kit Glass cabinet at the following prominent locations:

CONTROL ROOM

Only in the event of any emergency, the personal protective equipment kept in the "Emergency Glass Cabinet" shall be used. Following Personal Protective Equipment will be readily available in the aforesaid "Emergency Kit". Self Breathing Apparatus with oxygen portable cylinder.

CONISTER WITH MASK

- | | |
|---|-----------|
| a. For Electrical works (Rubber Hand Gloves) | 250 Pairs |
| b. For hot works (Asbestos Hand Gloves) | 50 Pairs |
| c. For metal handling works (Leather hand Gloves) | 50 Pairs |
| d. Gumboot | 100 Pairs |
| e. Safety Belt (General purpose) | 20 Nos. |
| f. Safety Belt (General purpose) | 50 Nos. |
| g. Safety Belt for Electrical works. | 20 Nos. |
| h. Safety and chemical goggles | 100 Nos. |
| i. Helmet | 220 Nos. |
| j. Apron | 10 Nos. |

The above items shall be inspected and ensured serviceable by the concerned Shift In charge Engineers of the location on regular intervals.

Any damage/deterioration/defect noticed in any of the abovementioned personal protective equipment shall be highlighted in the record register to be maintained by the Shift In charge Engineer and accordingly, replacement of the same shall be ensured.

2. FIRE PREVENTION FACILITIES

As on date, we possess the following fire fighting system to combat with the fire.

- a. Fire extinguishers of various capacity and types.
- b. Fire buckets
- c. Hose Reel

The following fire fighting system is established for the plant:

- a. Hydrant system
- b. Sprinkler system.
- c. Fire water reservoir

FIRE PREVENTION AND FIRE CONTROL MANAGEMENT

The following fire fighting system is under process procurement/establishment for the plant

LIST OF FIRE FIGHTING FACILITY [A.]

S.No.	DESCRIPTION	QTY IN NO.
1	Dry chemical powder type 10 Kg. capacity fire extinguishers complete set with initial Refill.	01
2	Dry chemical powder type of 1Kg. capacity Fire extinguisher complete set with initial Refill.	01
3	Fire bucket 9 Lit. Capacity.	04
4	SIREN Hand operated	03
5	Fire Hydrant Points	10
6	Lighting Arrestors	02

Municipal Corporation has a Fire Fighting Brigade and is just 15 Kms. away in case of any major fire occurred and one Fire Fighting Brigade facility is also available at Railway Station through Station Master. In case of any emergency they can also called. In addition to above, arrangements are being made to send an officer to acquire requisite fire qualification.

3. EMERGENCY ALARMING SYSTEM

An Electronic Alarm Facility Is Available At Site Switch Is Kept In E.C.C/Time Office

S.No.	NATURE OF EMERGENCY	TYPE OF ALARM
1	Normal Factory Siren	Continuous Below for 15 Second (Once Only)
2	Fire Emergency Siren For And Other Emergency	Blow For 10 (Ten) Seconds And Off For 05 (Five) Seconds. To Be Repeated 03 (Three) Times.
3	All Clear Siren For Factory Workers	Blow For 15 (Fifteen) Seconds And Off For 05 (Five) Seconds. To Be Repeated 05 (Five) Times.
4	All Clear Siren For General Public	Blow For 20 (Twenty) Seconds And Off For 05 (Five) Seconds. To Be Repeated 05 (Five) Times.

Emergency call out list of persons drafted for emergency control i.e. key personnel and notified team members, security, police and state authorities.

WORK ENVIRONMENT QUALITY AS PER POLLUTION DEPTT.

Work Environment Quality is very nice, management try to give pollution free working atmosphere throughout the factory premises. Time-to-time we arrange monitoring for the pollution in and nearby the factories to know about the pollution contamination of atmosphere due to handling/processing of chemicals and other materials used for manufacturing. A report of monitoring about the Working Environment Quality is given as under:

S.No.	PARAMETERS	LIMITS
1	Ph	5.5 – 9.0
2	Suspended Solids	100 Milligram per Liter
3	BOD	30 Milligram per Liter
4	COD	250 Milligram per Liter
5	Oil and Grease	10 Milligram per Liter

Intercoms

- a. Telephones
- b. District Telephone directory.

ASSEMBLY POINT

EVACUATION

In an emergency it is almost certain to evacuate affected personnel from inside the factory to a safer place. It is also essential to evacuate non-essential workers to streamline Emergency Action Plan activities and ensuring safety of those people. The evacuation will be affected after getting information from Works Incident Controller soon after emergency arises. On evacuation, all works staff and employees other than notified members, shall be assembled at the assembly points for receiving further information etc.

INFORMATION TO GOVT. DEPARTMENT

CIC/WIC will inform to all govt. department as well as to factory inspector about the committed emergency and try to gather and implement the suggestion from them.

ASSEMBLY POINT:

The point near main gate has been ear marked as Assembly Point for the purpose defined above.

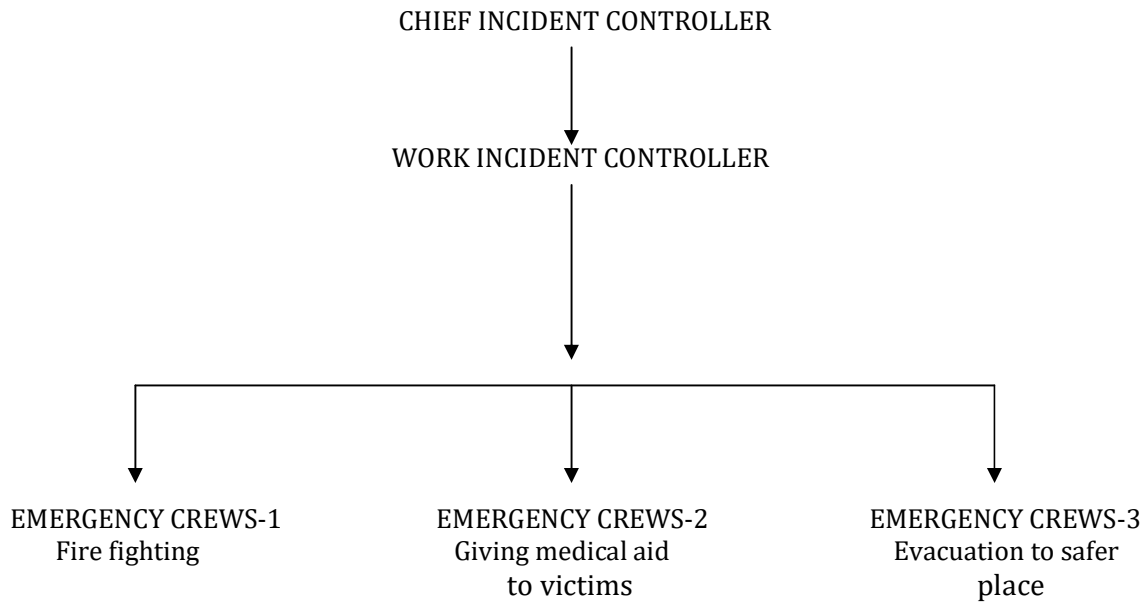
As soon as the non-essential staff and employees come to know about emergency, they shall reach to the assembly point without delaying further to ensure their safety and security.

ALTERNATIVE ASSEMBLY POINT:

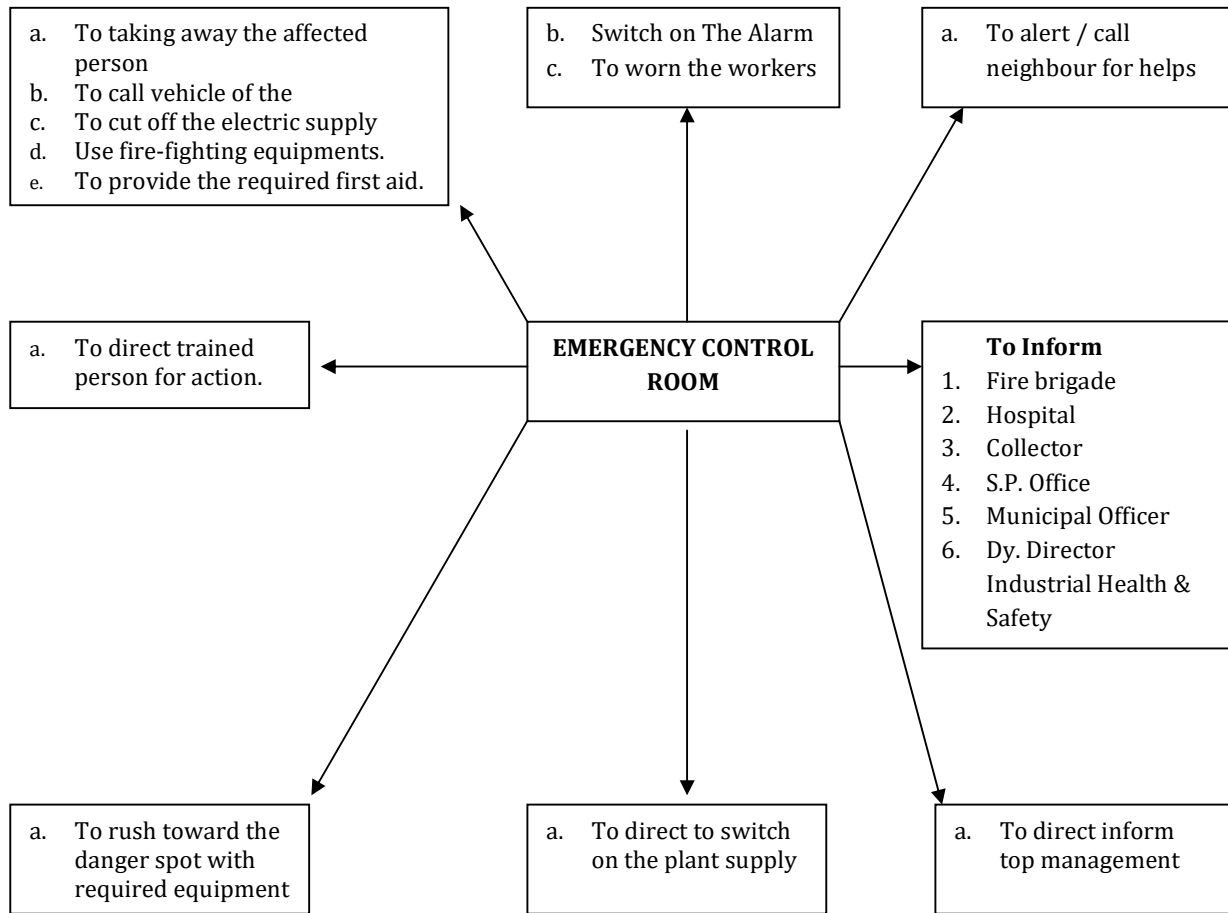
In the event of any problem, if arises so, to establish Assembly Point at plant, the Alternate Assembly Point has been ear marked in the site plan .All employees and work staff assembled at the Assembly Point shall abide to the information's and actions plan made known to them either by C.I.C. or W.I.C. or their representatives.

The non-essential work staff and employees shall not leave the assembly point unless and until asked for by the competent authority.

ACTION PLAN SET UP

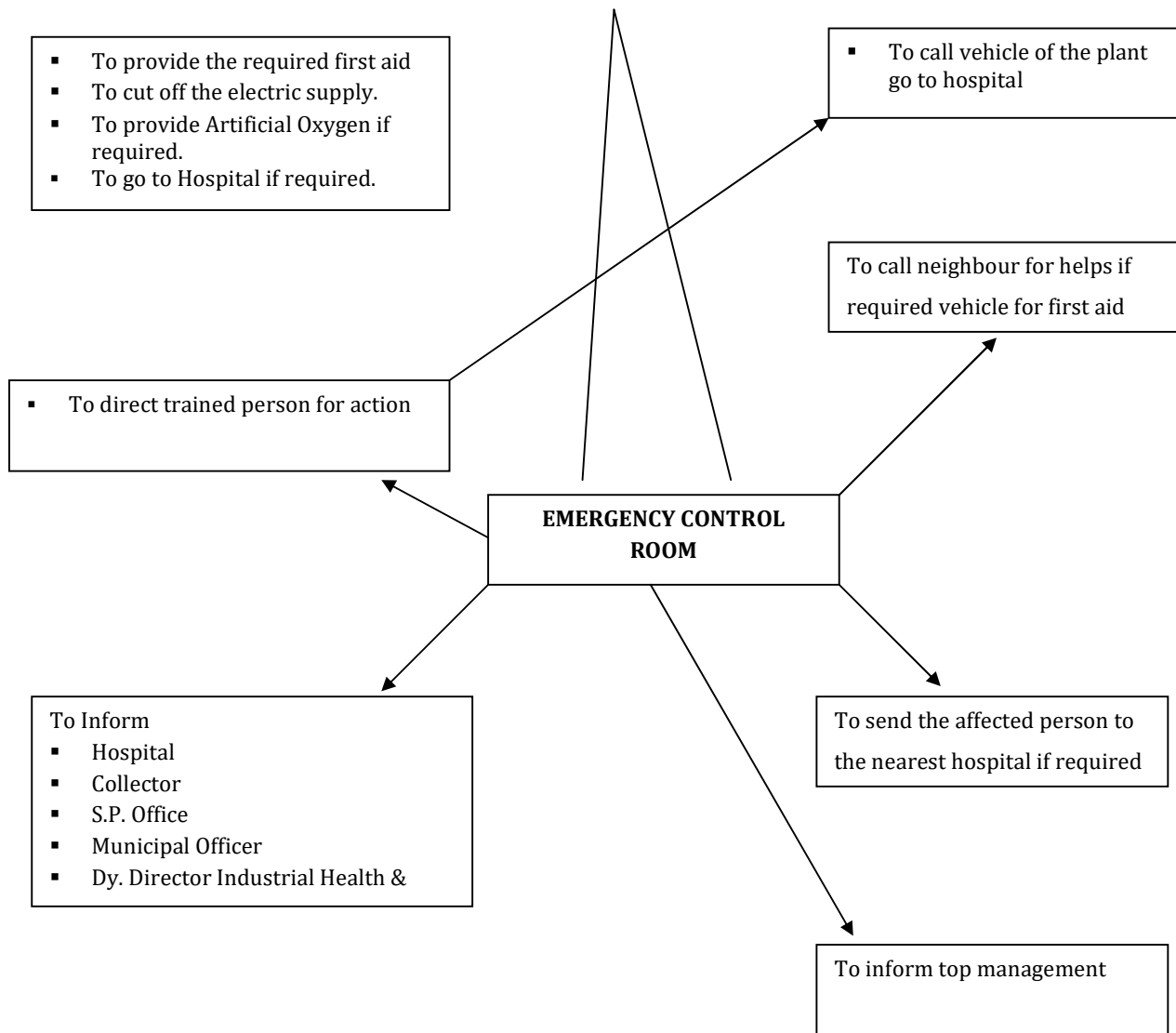


CALL OUT CHART IN CASE OF FIRE



EMERGENCY PLAN IN CASE OF ANY ACCIDENT EXPECT FIRE

INFORMATION RECEIVED



ACTION PLAN

FIRST INFORMATION OF EMERGENCY

As soon as an Emergency is noticed by any of the Staff, he shall shout “fire” “aag” “aag” to divert the attention of the people of the Emergency. And, subsequently informed of the emergency by telephone to the Shift Engineer and to the Security/Fire Officer./CIC/MANAGER.

The Shift Engineer and the Security/Fire Officer shall immediately inform of the Emergency to the Chief Incident Controller and the works Incident Controller. In addition to this, they shall also inform to the Telephone Operator so as to intimate to all notified team members and others accordingly. Emergency sirens should be sound to let the all persons know about the emergency. All the crewmembers should run to the E.C.C. All other workers/persons should run to the assembly point. CIC/WIC SHOULD ALSO VISIT THE SPOT OF FIRE OR OTHER EMERGENCY. BY assessing the situation CIC instructs all crewmembers to meet the emergency with available resources. The outside help like fire brigades, ambulances van and police assistance may be called by CIC if he wants

The Emergency Action Plan defines responsibilities of the following personnel:

1. Chief Incident Controller
2. Works Incident Controller
3. Key Personnel and Non-Key Personnel during the emergency.

In addition to above, the following actions will also be taken during the emergency period BY C IC:

1. Declaration Of Emergency
2. Giving All Clear Signal

Further, the responsibility of Emergency Control Centre has also been defined in the action plan.

RESPONSIBILITY OF CHIEF INCIDENT CONTROLLER.

The over all in charge **Rajesh Tiwari** shall be the Chief Incident Controller in case of emergency, if any, arises. The Chief Incident Controller (CIC) shall assume overall responsibility for the factory/storage site and its personnel.

THE C.I.C. SHALL BE RESPONSIBLE:

- a. To assess the magnitude of the situation and to decide if the affected staff needs evacuation from the assembly points to identify safer place.
- b. After consulting the WORKS INCIDENT CONTROLLER, to Declare EMERGENCY IN THE PLANT
- c. To exercise direct operational control over the Area other than those affected.
- d. To undertake a continuous review of possible developments and, assess in consultation with key personnel as to whether shut down the plant or any section thereof. And the need of evacuation of personnel.
- e. To liaise with Sr. Officials of Police, Fire Brigade, Medical Authorities and Factories Inspectorate. And provide advice on possible effects on area outside the factory premises as well as head of Personnel.
- f. To look after rehabilitation of affected personnel on discontinuation of Emergency.
- g. To issue authorized statements to news media and ensure that evidence is preserve for enquiries to be conducted by departmental as well as statutory authorities.

1) RESPONSIBILITY OF WORKS INCIDENT CONTROLLER (W.I.C.)

- a. **MANAGER** shall be the works Incident Controller (WIC). The W. I. C. shall immediately rush to the incident site as soon as he comes to know about the emergency and, shall take overall charge. He shall subsequently inform of the emergency to the chief Incident Controller.

He will assess the extent of the emergency and decide if major emergency exists and inform the Communication Officer accordingly.

HE SHALL BE RESPONSIBLE:

- a. To direct all operations to stop within the affected area taking in to consideration priorities for safety of personnel, minimum damage to the plant, property and environment and, minimum loss materials.
- b. To provide advice and information to the Fire. Security officer and the local fire service.
- c. To ensure that all non-essential workers/staff of the affected area are evacuated to assembly points and that the affected area are searched for casualties.
- d. To set-up communication points and establishes contact with Emergency Control in the event of area of electric supply causing disruption in Public Address System (PAS) and internal telephones.
- e. To report on all significant and developments to the Communication Officer, and
- f. To have regard to the need to preserve the evidence so as to facilitate any enquiry into the cause and circumstances this caused or escalated the emergency.

2) KEY PERSONNEL

Apart from the Chief Incident Controller and works Incident Controller, there shall be other key personnel who will be responsible to assist the C. I. C. and the W.I.C. as well as to carry-out the job assign to them in connection with combating with the emergency.

THE KEY PERSONNEL INCLUDES:

Shift Engineers for –

- a. Operation (Production)
- b. Mechanical Maintenance
- c. Electrical. Instrumentation
- d. Quality Control

Head of personnel and officers connected with I.R. and Labour Welfare, and Safety.

- Medical Officer
- In charge of Security and Fire.
- Transport Officer (administrative Officer) of Personnel. Administration Department.
- Public Relation Officer

A list of the key personnel along with their telephone numbers and their residential address shall be made available to all concerned suitably.

Wherever and wherever required, the key personnel in addition to their job assigned, shall assist the Chief Incident controller and works Incident controller.

3) ESSENTIAL STAFF

To streamline the activities in connection with combating the Emergency, personnel selected shall be known as Essential Staff. This may include Steno/Typist, Attendants, Messengers, Drivers, and Supervisors etc. depending upon the services required by either. C.I.C. or W.I.C. or the key Personnel.

It will be the responsibility of works Incident Controller to identify the essential staff from work Task Force and ask them to report at the define control centre so as to ensure their availability.

It will be the responsibility of Works Incident Controller to remove all employees and other personnel (other than the notified team members, key personnel, and the essential staff) from their work place to the Assembly Points.

5.Post-Emergency Activities:

As soon as the emergency is over the CIC /WIC will go to the incident site to check whether everything is o.k. After their satisfactions normal factory siren will be sound **GIVING ALL CLEAR SIGNAL** and work will again start as usual.

POST-EMERGENCY OPERATION

After the fire is extinguished from entire place / area the concerning team in charge will inform to the CIC/WIC about the situation so that the all clear signal will be sounded on the electric siren by the consultation with CIC and WC.

All clear signal

After overcoming of emergency arise, works incident controller will communicate to CIC about it. After verification of status, the CIC will communicate and announce the all-clear instruction to sound the all-clear signal.

Action of Salvage Team

After overcoming the emergency occurred in factory. The salvage team will act to clean/normalize and to decontaminate the affected area/section, so that working / production can be restarted. The action taken by Salvage teams is as follows:

- Clean / remove the vapour of toxic materials present in atmosphere by means of exhaust / sucking equipment.
- Proper checking / maintenance of all plant and machineries of affected section and to maintain them in working condition.
- Find out the reason due to which emergency has occurred and after analyzing develop corrected plan that it will not be repeated in future.
- Inform to CIC after making affected area as well as it was, for restarting the production / taken in use.

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

EMERGENCY CREWS

Following team shall be notified for deployment in case of any emergency. The responsibilities of this team will be defined in next-pages: They will work as per roll given to them. They will follow the instruction of C.I.C/W.I.C.

EMERGENCY CREW-1 FIRE FIGHTING

SL.NO.	NAME /POST	ADDRESS	PHONE NUMBERS
1	Samresh Kumar (MD)	M/s SAMBHAVI ISPAT PRIVATE LIMITED Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)	+91 99389-53704
2	Rajneeti Paswan (GM)	M/s SAMBHAVI ISPAT PRIVATE LIMITED Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)	+91 95836-80294

EMERGENCY CREW-2 GIVING MEDICAL AID TO VICTIMS

SL.NO.	NAME /POST	ADDRESS	PHONE NUMBERS
1	Subala Pradhan (Mill In charge)	M/s SAMBHAVI ISPAT PRIVATE LIMITED Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)	+91 80857-50121
2	Shankar Baghel (Store In charge)	M/s SAMBHAVI ISPAT PRIVATE LIMITED Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)	+91 91319-79641

EMERGENCY CREW-3 EVACUATION TO SAFER PLACE

SL.NO.	NAME /POST	ADDRESS	PHONE NUMBERS
1	Ranajit Bhowmik (Office Head)	M/s SAMBHAVI ISPAT PRIVATE LIMITED Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)	+91 96472-66472
2	Satish Yadav (Office Executive)	M/s SAMBHAVI ISPAT PRIVATE LIMITED Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)	+91 72538-99332

RESPONSIBILITIES OF THE CREWS

EMERGENCY CREW-1 Fire fighting

- a. To identify the source of hazard and to neutralize contain it according to Prevailing circumstances.
- b. To isolate remaining plant and keep that in safe condition.
- c. To organize safe shut down of the plant, if necessary.
- d. To organize all support services like operation of fire pumps, sprinkler system, etc.
- e. Attend to all emergency maintenance jobs on top priority.
- f. To take steps to contain or reduce the level of hazard created due to disaster.
- g. To organize additional facilities as desired:
- h. To rush the fire spot and extinguish the fire.
- i. To seek help from outside fire fighting agency through the notified. Officers, if the fire is out of control under the existing system.
- j. To evacuate persons affected due to whatever reasons.
- k. To maintain the communication network in working condition.
- l. To attend urgent repairs in the communication system, if required.
- m. To arrange messengers for communicating urgent messages to relatives of victims when needed so.
- n. To help authorities to communicate with external or internal authorities/officials.
- o. To OPEN all gates.
- p. To bar entry of unauthorized persons.
- q. To permit, with minimum delay, the entry of authorized personnel and outside agencies, vehicles, etc all who have come to extend their help in emergency.

EMERGENCY CREW-2 medical aid

- a. To allow the ambulance/evacuation vehicles, etc, to go through gates without normal checks
- b. To rescue the casualties on priority basis.
- c. To transport casualties to First-aid post, safe place, or to Medical Centres.

EMERGENCY CREW-3 evacuation

- (a) To account the personnel.
- (b) To help in search of missing personnel.
- (c) To pass information to the kith and kid of fatal or serious injured persons.
- (d) To arrange required safety equipment.
- (e) To record accidents.
- (f) To collect and preserve evidences in connection with accident enquiries.
- (g) To guide authorities on all safety related issues.

ROLL CALL SYSTEM OTHER ACTION / INFORMATION

The time office will maintain the all register for attendances of all workers as per act. The gate pass will be issued to each Labor. Proper record of visitors will also keep.

OUTSIDE DANGEROUS:

The outside danger will be taking up with the help of police and safety guards. Proper record of visitors will also keep. Outside emergency includes earthquake, storm, and lightening air crash, collapse of infra structure/building(s), deliberate acts to cause sabotage etc.

Earthquake and flood:

- Earthquakes present unique problems as they upset the complete infrastructure necessary for rescue and restoration of normalcy. For example, it could prevent emergency personnel from reaching victims,. It increases the risk of fire and electrical shock, could result in complete failure of the telephone and other communication systems, disruption of water for fire fighting / other reasons, and increases the possibility of burst pipelines carrying petroleum oils. It could, in addition, prevent ambulances evacuating victims, fire personnel from reaching the fire incident areas result in major structural debris causing secondary damage and most importantly, could affect the entire emergency organization that is geared up for fire emergencies. Damage from falling structural debris could signal an end to conventional plans.
- The main actions for earthquake incidents include preventive (pre incident), during incident and post incident actions. Each earthquake, depending upon its intensity (as measured on the modified Mercalli Scale) would have different extent of damage. Some mild earthquakes could result in minor tremors felt within and perhaps outside the administration building, major ones could result in complete destruction of storage tanks, rupture of pipelines and complete collapse of admin block building. Some of the precautions that are important include.
- Basic earthquake related training to staff (behaviour during earthquake, how to recognize, dos and don'ts etc.)
- As blackout is possible, a kit containing flashlights, portable radio, basic tools etc should be available for emergency.
- Basic precautions such as sitting away from wall hanging items, bolting of alamedas to the wall rather than loosely lying cupboards, pasting tape to the glasses to avoid excessive shattering.
- Actions during an earthquake would depend upon the severity of the quake and the extent of damage – however, the basic steps for safeguarding the safety (top most criterion) include:
- Activation of the fire orders, as fires is likely in case of major earthquakes. Pipelines would be expected to rupture, as too would storage tanks- this would result in a large-scale spillage and possible fire of the oil. The fire fighting system is likely to be incapacitated. In addition, power supply may be (most likely) cut off. Most likely, therefore, the Off Site Plan would need to be activated, as fatalities beyond the depot boundary wall are likely to be affected.
- The main action would involve:
- Cutting off the power supply (if not cut off on its own already) to avoid electrical shocks, fires etc.

- Halting any unloading / loading operations if in progress by emergency stoppage of pumps.
- Sending away road tank-trucks to safe zones for further instructions.
- Any major oil spillage could also overflow the dyke walls and spread around. Halting or minimizing this flow of oil may be attempted where practical and if possible without endangering human life.
- For personnel, important instructions include:
 - Drop, cover and hold.
 - Get under a heavy table or desk and hold on, or sit or stand against an inside wall if inside the admin block and unable to come out. If possible to come out without difficulty, assemble outside the admin block to avoid fatality due to structural collapse.
 - Keep away from windows as these may shatter / crack resulting in possible injury.
 - If indoors in admin block, stay there.
 - If outdoors, stay outdoors away from fall a object (lighting poles, pipe racks, structural roofs etc.), falling debris, trees, and power lines.
 - TT drivers should drive to a clear spot and stay in the tanker. They must avoid stopping on or under pipe racks.
- Post earthquake actions are extremely important and these include:
 - Expect aftershocks. They are just as serious as the main earthquake. Many Earthquakes in the past were multiple tremor ones, not a single quake
 - Put on shoes to protect from broken glass. Chapels etc. are to be avoided at any cost
 - Check for injuries and fires (secondary fires could be raging).
 - Use a flashlight to inspect for damage.
 - Do not go into damaged areas unless specifically trained to do so.
 - Do not use telephone except in emergencies.
 - Do not use vehicles except in emergencies.
 - Use a portable radio for information.
 - Assist in rescue of co-workers and other persons who could be present at the terminal as per the Fire orders.

Floods:

Floods are natural calamities that have the potential to cause widespread damage to human being and property. Flood planning is perhaps the best protection against flood damage. Floods however occur after pre-warming, enabling advance action. Flood could completely submerge process equipment, buildings, pipelines and damage storage tanks. Most importantly, floods could result in drowning deaths and injury. Main actions during flood revolve around the following:

- Cut-off electrical supply to prevent electrocution.
- Switch off / discontinues all operations at the installation.
- Establish contact with the flood control room (Government) for up to date status.
- Flood damage control methods include.
 - Keep Insurance papers, important documents, and other valuables in a safe deposit box at a safe location.
 - Have a flood kit containing portable radio, flashlight, and emergency supplies.
 - Move furniture and other items to higher levels in advance.

- Listen to portable radio for up-to-the minute information.
- Use telephones only for life-threatening emergencies.
- Evacuate, if necessary and follow instructions.
- Do not walk or drive through floodwaters.
- Stay off bridges where water is covering them.
- Keep out of storm drains and irrigation ditches.
- Use a flashlight to check for damage.
- Stay out of the disaster area.
- Do not use vehicles except in emergencies

Bomb Hoax/Threat

In case of receiving a bomb threat at the depots, the following actions are advised:

- Be calm and composed and do not show signs of panic.
- Try and gain the trust of the caller by simple method (may be given your first name (If comfortable only), say you are new to the depot etc.). Be polite and courteous on the phone.
- Engage the caller for as long as possible as it may help later to trace the call or could help the caller give away critical hints. Do not ever let the caller hang up quickly.
- Try and note down (on a piece of paper) attributes of the caller such as accent, any background noise (station, airport, busy highway, hotel, TV in living room etc.). This evidence could be crucial.
- Do not show any signs of sarcasm on the phone (could set off the undesired reaction) or that you do not consider the call to be of a serious nature.
- Let the caller think you are fully convinced that his / her threats are genuine.
- Try and gain the confidence of the caller by engaging in serious conversation.
- Try and find out from the caller the location of the bomb, what type of bomb and other information, which could be useful.
- In case of threats by some terrorist organizations, try and engage in conversation (if confident) on ideological causes, how this move would realize their objective etc. However, only trained staff should do this.

SURROUNDING DANGEROUS FACTORY/PETROL PUMP:

There is no hazardous factories are located near us.

Accident History:

Nil

EMERGENCY LIGHT SYSTEM:

In Case Of Failure Of Current From C.S.E.B. **DG Generator** Is Installed To Start Emergency Meeting Systems Like Pumps, Emergency Lights Etc.

Reporting Method:

The CIC and WIC will inform by telephone/in writing to Sr. officials of police, fire brigade, medical authorities and factories inspectorate and provide advice on possible effects on areas outside the factory premises as well as head of Personnel.

INFORMING FAMILIES OF VICTIMS:

There is record register in which address of each labor/staff is recorded persons will be send to address of victims to inform about the injured members. Injured person family will be immediate inform by telephone.

METROLOGICAL DATA

The direction of wind of as there this area is generally from south west north east as there is no sea surrounding to this place the ambient wind is calm and stern. A windbag is fixed on the top floor of the unit to see the wind flow and direction. During extreme summer due to atmospheric pressure wind velocity is observed as high

A chart is fixed in E.C.C. main gate and prominent points giving details about air direction and its probable speed, gas detector is provided near manufacturing plant

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

FUNCTIONING OF EMERGENCY PLANNING EVACUATIONS OF FULL MOCK DRILL MONITORING COMMITTEE

For effective functioning of the Emergency Planning during the need of hours, full Mock Drill shall be carried out once in a six month time period.

The Full Mock Drill Monitoring Committee shall be comprised of the following personnel:

HEAD OF THE PLANT	Director
-------------------	----------

The committee may invite any other official/expert, if considered necessary.

The committee shall supervise the following activities:

1. Functioning of Emergency Control Center very effectively. Especially, to ensure availability of all facilities, etc. as mentioned in the plan and to make the function healthiness’.
2. In evaluate communication of the Emergency Plan to all segments of employees to familiarize them about their responsibilities in case of any disaster. Including evaluation of behaviors of employees and others.
3. To ensure that the necessities under material assistance scheme is properly documented and the concerned employees are fully aware in this regard.

EMERGENCY PLANNING MOCK DRILL

Mock Drill is the exercise to ascertain effectiveness and proper implementation of the EMERGENCY PLANNING to counter with any probable disaster with full resources fully and properly utilized to minimize the loss to lives and properties as well as to the environment.

The MOCK DRILL exercise shall have the following motive to work out the existing system related to EMERGENCY PLANNING.

1. Effectiveness of the emergency planning.
2. Availability of all facilities as per system laid down in the on-site emergency-planning book.
3. Constraint being faced to meet with the requirements.
4. Any shortcoming encountered while doing the Mock Drill exercise.
5. Improvement(s) needed to make the Mock Drill more effective and more fruitful.

The outcome of each Mock Drill Exercise shall be reported to the head of Plant by the Chairman of Efficacy Monitoring committee in a written report covering above mentioned and any other important points related to the on-site emergency planning and its Mock Drill Exercise, with the assistance of the committee members.

Suggestions, recommendations submitted by the committee, if any for improvement of the plan shall be rigorously worked out considering all pros and cons to arrive at a feasible and more effective working system. The decision so taken and amendment if so made in the plan/system shall be intimated to the Directorate of Factories, Chhattisgarh Government for obtaining approval thereof.

MOCK DRILL EXERCISE:

It is imperative that the procedure laid down in the On-site Emergency Plan are put to the test by conducting Full Mock Drill outlast once in a three months time period.

The Mock Drill shall be carried out step by step as stated below to ascertain its effectiveness and to obtain the desired result thereof.

FIRST STEP

Test the effectiveness of the communication system.

SECOND STEP

Test the speed of the mobilization of the plant.

THIRD STEP

Test effectiveness of search, rescue and treatment of casualties.

FOURTH STEP

Test emergency Isolation and shut down as well as the remedial measures taken on the system.

FIFTH STEP

Conduct a full rehearsal of the actions to be taken during an emergency.

FINAL STEP

Prepare the Mock Drill Exercise report covering all points related to deficiencies, deviations, and short comes. Lacunas constraint, etc. encountered during the exercise. Recommended suitable measures to counter with above mentioned evils and also suggest, if there is anything to add for improvement of the system.

EMERGENCY PLANNING EFFICACY DRILL

The Emergency planning efficacy drill shall be carried out once in every three months.

The E.P. efficacy drill shall be carried out under the supervision of E.P. Efficacy Drill Monitoring Committee.

The committee may invite any other Official(s)/Expert(s) to assist its functioning.

The requirement given below related to the drill activities shall be necessarily supervised by the committee for its being effectiveness. The committee shall also ensure meeting with these requirements to make the drill useful and result oriented.

1. All members are trained about their responsibilities/duties. All of them are well aware of the evacuation routes, direction of evacuation and the equipments to be used during evacuation or the evacuation.
2. All employees are fully trained to rescue their colleagues, who are affected due to cause of disaster. In case they are unable to rescue their colleagues, they should know to whom they are to inform about such person(s).
3. All employees are fully trained in First-Aid use of desired equipments including breathing apparatus. First-Aid box, etc. And that, all these First-Aid appliances, etc. are available at the desired locations.
4. All warning alarms are functional.
5. All Telephone lines / communication systems are provided in the control room.
6. All employees to be made aware of the authority-declaring **EMERGENCY**.
7. Concerned official(s) authorized to inform the District Authorities, State Authorities and Corporate Center in the state of EMERGENCY are well aware of their role.

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

MUTUAL AID PROGRAM

We have arranged mutual aid understanding with our neighbors' factory .In case of any emergency situation following nearby factory management may be called for help. They will help us with their resources

S.N.	Name of Factory	Facility Shared During Emergency	Mobile No.
1	M/S Singhal Enterprises Private Limited	Fire tender Fire Extinguisher, Firefighting water hose reel as per requirement, trained staff for Firefighting, 01 Nos. of Vehicle for evacuation procedure, medical first aid box and emergency vehicle.	07762-261405
2	M/s Raigarh Ispat & Power Private Limited	Fire tender Fire Extinguisher, Firefighting water hose reel as per requirement, trained staff for Firefighting, 01 Nos. of Vehicle for evacuation procedure, medical first aid box and emergency vehicle	07752-246501
3	M/s Anjani Steels Private Limited	Fire Extinguisher, trained staff for Firefighting, medical first aid box.	94255-71227

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

MEDICAL FACILITIES AVAILABLE NEAR SITE

Distance of hospital from factory	Bedded capacity	First aider available (give names)	Antidotes available (give names of Antinodes) s	Ambulance Van/ Alternative Arrangement		
				Equipments Available in Ambulance	Capacity of Ambulance / Van	Facilities available e.g. Safety Equip. Immobilization, emergency medicines etc. in the van.
Jindal First Aid Center, Punji Pathra	05	Doleshwar Bhasar	Ampoxin, Crocin, Bactrim D.S., Sorbitrate, Neosprin Powder & Oint. Locula Eye Drop. Dettol, Betadin, Cough Syrup, Strepsil, Lasix	All Stretcher Emergency, First Aid, Oxygen system, Saline with stand, Injection	Govt. Hospital NayaGanj, Raigarh, (C.G.)	All Emergency, First Aid, Oxygen system, Saline, Injection, Sorbitrate, Aten-10, Burnol.
ESIS Hospital Taraimal	02	Sandip Sidar	Tab, Decodran, Aten-10, Tetanus Toxide Inj. Bandage, Cotton Scissors		Sanjeevni Express Ph. No. 108 5 person	

Following medical facilities are available at factory

1. First-aid (situated closely to PA Office)
2. Ambulance Van may be called as and when required (Provided by J.S.P.L.)
3. First-Aid related medicines and injections. With cotton, scissors, ointment, smelling salt, tincher, antiseptic spray, burnol, bandage& band- aid
4. Sterilizers
5. Emergency Oxygen System
6. First-aid injuries treatment facilities.
7. Stretcher - 01 No. (Excluding available with Ambulance)
8. Other medical items covered under C.G. Factories Rules-1962.

Following facilities have established:

- 1) Bed facilities - 02 Nos.

All cases other than of First-aid natures are referred to Medical College Hospital that is around 15 Km. from the plant However; patients are sometimes referred to private Nursing Homes

FIRST AID BOX:

First-aid Boxes are kept in all-important locations of the plant numbering to 08 (Eight) to cater the needs of the employees at the spot.

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

HOSPITALISATION FACILITIES NEAR SITE

S.No.	Name	Number of beds At least	Address/ Phone No.	OHS expert, antidote for hazardous materials
1.	Jindal First Aid Center	05	Punjipathara	YES
2.	Fortis O.P. Jindal Hospital & Research Centre	100	Patrapali, Near JSPL Plant, Kharsia Road, Near O.P. Jindal School, Raigarh (C.G.) Phone No. 07762-227033	YES
3.	Mission hospital	100	Chiranjeev Das Nagar, Kelo Vihar Colony, Raigarh (C.G.) Phone No. 07762-223097	YES
4.	Govt. Hospital	100	NayaGanj, Raigarh, (C.G.) Phone No. 07762-222979	YES
5.	RED CROSS SOCIETY	50	NayaGanj, Raigarh, (C.G.) Phone No. 07762-225750	YES
6.	JMJ Morning Star Hospital	100	Chiranjeev Das Nagar, Raigarh (C.G.) Phone No. 07762-223097	YES
7.	Balaji Metro Hospital	50	Near Pahad Mandir Road, Kouhakunda, Chakradhar Nagar, Raigarh (C.G.) Phone No. 94255-70727	YES

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

LIST OF IMPORTANT STATE/LOCAL AUTHORITY

S.No.	Description	Place	Phone No.
01	Collector	Raigarh	07762-222102 222101-R
02	Supdt. of Police / Control Room	Raigarh	100,223333 222244-R
03	Nearest Police Thana	Punjipathara	100
04	Chief Inspector Of Factories, Labor Commissioner.	Block 3 rd Second Floor, Indrawati Bhawan New Raipur (C.G.)	0771 2443515
05	Dy. Chief Inspector Of Factories (I.H.& Safety) - Raigarh	Chakradharnagar Chowk, Raigarh	07762-223035
06	Fire Brigade	Raigarh JSPL	101,222911 227001
07	Hospitals	Fortis O.P. Jindal Hospital Kirodimal Govt. Hospital Shri Balaji Metro Hospital Sanjeevani Nursing Home	79473 43038 07762-222979 077622 20222 94252 75365
08	Ambulance	Rotary Club of Raigarh Steel City Sanjivani Nursing Home Balaji Metro Hospital Maa Mangala Ambulance	231021 79473 43038 79471 29640 79473 43126

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

VERIFICATION

This is to certify that. The documents and information incorporated in the On-Site Emergency Plan manual of **M/s SAMBHAVI ISPAT PRIVATE LIMITED** Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.) have been personally verified and signed on each page by me.

The On-Site EMERGENCY PL AN manual is submitted herewith to the Director/CIF, Industrial Health & Safety, and Govt. of C.G. Seeking his kind approval and Permission to implement the same **M/s SAMBHAVI ISPAT PRIVATE LIMITED** Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.) We hereby acknowledge revising and updating the On Site Emergency Plan manual In the event of any change (s) in the technology, infrastructure, plant process, Machinery (s). Building (s). Storage and manufacturing process and or deletion or Addition made on account of the above. And shall submit the same to the C.I.F./Director, Industrial Health & Safety, Govt. of C.G. for his approval.

We further undertake that in the event of closure of the factory shall be disposed-off In a safe and sound manner without affecting risk and danger to the human beings and To the environment and, shall intimate the action taken in this regard, to the C.I.F/Directorate of Industrial Health & Safety, Govt. of C.G.

Sign of Occupier

M.S.D.S. OF LIQUEFIED PETROLEUM GAS (L.P.G.)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LPG

Synonyms: Liquefied Petroleum Gases; Olefins; Alky Feed; Stabilizer Bottoms, 888100004454

MSDS Number: 888100004454 **Versions:** 1.2

Product Use Description: Fuel, Refinery intermediate Stream

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Regulatory status: This material is considered hazardous by the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200).

Signal Word: DANGER

Hazard Summary:

High concentrations may exclude oxygen and cause dizziness and suffocation. Contact with liquid or cold vapor may cause frostbite or freeze burn. Simple asphyxiate. Reduces oxygen available for breathing. Exposure to concentrations above 10% of the LEL may cause a general central nervous system (CNS) Depression typical of anesthetic gases or intoxicants. Aliphatic hydrocarbon gases may build up in confined spaces and may cause dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in narcosis, unconsciousness, and possibly lead to death.

Potential Health Effects

Eyes: May cause mild, short-lasting discomfort to eyes. Rapid release of gases which are liquids under pressure may cause frost burns of exposed tissues (skin, eye) due to evaporative cooling.

Skin: Negligible irritation to skin at ambient temperatures. Rapid release of gases which are liquids under pressure may cause frost burns of exposed tissues (skin, eye) due to evaporative cooling.

Chronic Exposure: Chronic Effects and/or Target Organ Data: May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Exposure to rapidly Specific Hazard

Reactivity Health

NFPA: Flammability

0

FLAMMABILITY PHYSICAL

4

0

1

HMIS III:

0 = Insignificant, 1 = Slight, 2 = Moderate,

3 = High, 4 = Extreme

Expanding gas or vaporizing liquid may cause frostbite (cold burn). Simple asphyxiate: Acts by displacing oxygen in the lungs thereby diminishing the supply of oxygen available to the blood and tissues. Symptoms include shortness of breath, rapid heart rate, in coordination, lethargy, headaches, nausea, vomiting, and disorientation. Continued lack of oxygen may result in convulsions, loss of consciousness and death. Oxygen in enclosed spaces should be maintained at normal atmospheric percentage (about 21 percent by volume).

Target Organs: Eyes, Skin

Physical and chemical hazards: Flammable Gas. Material can release vapors that readily form flammable mixtures. Vapor accumulation could flash and/or explode if ignited. Frostbite hazard - rapidly expanding gas or liquid may cause frostbite Material can accumulate static charges which may cause an incendiary electrical discharge.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component CAS-No. Weight

% Propane 74-98-6 60 - 90%

Butane 106-97-8 10 - 30%

Propane; Propylene 115-07-1 1 - 5%

Isobutene 75-28-5 1 - 5%

SECTION 4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Give oxygen. Seek medical attention immediately.

Skin contact: For exposure to liquid, immediately warm frostbite area with warm water not to exceed 105°F (41°C). In case of massive exposure, remove contaminated clothing while showering with warm water. Obtain medical attention.

Eye contact: Immediately flush eyes thoroughly with warm water for at least 15 minutes. Remove contact lenses. Rinse with water. Take victim immediately to hospital. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. If eye irritation persists, seek medical attention.

Ingestion: Ingestion is considered unlikely. If swallowed, obtain medical attention.

Notes to physician: Symptoms: Dizziness, Headache, Nausea, Frostbite, Vomiting, and Discomfort
Hazards: This material may be a cardiac sensitizer; avoid the use of epinephrine.

Treatment: Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5. FIRE-FIGHTING MEASURES

Form: Liquefied gas

Flash point: -104 °C (-155 °F)

Lower explosive limit: 2.1 %

(V) Upper explosive limit: 9.5
% (V)

Suitable extinguishing media: Water spray, Dry chemical, Foam, Carbon dioxide (CO₂), Fire should not be extinguished unless flow of gas can be immediately stopped.

Specific hazards during fire fighting: Flammable Gas. Vapours are heavier than air and may travel long distances to a point of ignition and flash back.

Special protective equipment for fire-fighters: Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA-approved pressure demand self-contained breathing apparatus with full face piece and full protective clothing.

Further information: Allow the fire to burn under controlled conditions. Fire should not be extinguished unless flow of gas can be immediately stopped. Stop leak if you can do it without risk. Evacuate area. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop a leak. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Use water to cool equipment, surfaces and containers exposed to fire and excessive heat. For large fire the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Warn or evacuate occupants in surrounding and downwind areas if required due to toxicity or flammability of the material. Emergency eye wash capability should be available in the vicinity of any potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Consider disposal of contaminated clothing rather than laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

Environmental precautions: Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up: Land Spill: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). CAUTION: When in contact with refrigerated/cryogenic liquids, many materials become brittle and are likely to break without warning. Allow liquid to evaporate from the surface. All equipment used when handling the product must be grounded. Do not direct water at spill or source of leak. Do not touch or walk through spilled material. If possible, turn leaking containers so that gas escapes rather than liquid. Isolate area until gas has dispersed. Prevent spreading of vapors through sewers, ventilation systems and confined areas. Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Water Spill: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Allow liquid to evaporate from the surface.

SECTION 7. HANDLING AND STORAGE

Handling: Keep away from fire, sparks and heated surfaces. No smoking near areas where material is stored or handled.

Advice on protection against fire and explosion: Hydrocarbon liquids including this product can act as a non-conductive flammable liquid (or static accumulators), and may form ignitable vapor-air mixtures in storage tanks or other containers. Precautions to prevent static-initiated fire or explosion during transfer, storage or handling, include but are not limited to these examples: (1) Ground and bond containers during product transfers. Grounding and bonding may not be adequate protection to prevent ignition or explosion of hydrocarbon liquids and vapors that are static accumulators. (2) Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil or diesel) is loaded into tanks previously containing low flash point products (such as gasoline or naphtha). (3) Storage tank level floats must be effectively bonded.

For more information on precautions to prevent static-initiated fire or explosion, see NFPA 77, Recommended Practice on Static Electricity (2007), and API Recommended Practice 2003, Protection against Ignitions Arising out of Static, Lightning, and Stray Currents (2008).

Dust explosion class: Not applicable

Requirements for storage

Areas and containers: Keep away from flame, sparks, excessive temperatures and open flame. Use approved containers. Keep containers closed and clearly labeled. Empty or partially full product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose containers to sources of ignition. Store in a well-ventilated area. The storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks in Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks".

Advice on common storage: Keep away from food, drink and animal feed. Incompatible with oxidizing agents. Incompatible with acids.

Other data: Keep in a dry place. Keep away from heat. No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

List Components CAS-No. Type: Value

OSHA Z1 Propane 74-98-6 PEL 1,000 ppm 1,800 mg/m³

ACGIH Propane 74-98-6 TWA 1,000 ppm

Butane 106-97-8 TWA 1,000 ppm

Isobutane 75-28-5 TWA 1,000 ppm

Protective measures: Avoid contact with skin. When using do not smoke. Keep out of reach of children. Keep away from heat and flame.

Engineering measures: Use only intrinsically safe electrical equipment approved for use in classified areas.

Eye protection: Goggles and face shield as needed to prevent eye and face contact.

Hand protection: Neoprene gloves any specific glove information provided is based on published literature and glove manufacturer data. Work conditions can greatly affect glove durability; inspect and replace worn or damaged gloves. If product is hot, thermally protective gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves.

Skin and body protection: Where contact with liquid may occur, wear apron and face shield.

Respiratory protection: NIOSH/MSHA approved positive-pressure self-contained breathing apparatus (SCBA) or Type C positive-pressure supplied air with escape bottle must be used for gas concentrations above occupational exposure limits, for potential of uncontrolled release, if exposure levels are not known, or in an oxygen-deficient atmosphere. Refer to OSHA 29 CFR 1910.134, ANSI Z88.2-1992, and NIOSH Respirator Decision Logic and the manufacturer for additional guidance on respiratory protection selection.

Work / Hygiene practices: Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquefied gas

Appearance: Colorless gas. Cold vapor cloud may be white but the lack of visible gas cloud does not indicate absence of gas. A colorless liquid under pressure.

Odor : Odourless

Flash point: -104 °C (-155 °F)

Thermal decomposition: Heating may cause a fire or explosion., Material does not decompose at ambient temperatures. Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke) are possible hazardous decomposition products. **Lower explosive limit:** 2.1 % (V)

Upper explosive limit: 9.5 % (V)

pH: Not applicable

Freezing point: No data available

Boiling point: -40 °C(-40 °F)

Vapour Pressure: 23 to 132 psig at 21.1 °C (70 °F)

Liquid Density: 1.6 g/cm³

Water solubility: Negligible

Viscosity, kinematic: No data available

Percent Volatiles: 100 %

Conductivity

(Conductivity can be reduced by environmental factors such as a decrease in temperature)

Hydrocarbon liquids without static dissipater additive may have conductivity below 1 picoSiemens per meter (pS/m). The highest electro-static ignition risks are associated with "ultra-low conductivities" below 5 pS/m. See Section 7 for sources of information on defining safe loading and handling procedures for low conductivity products.

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid: This product is stable at ambient temperature and atmospheric pressure. Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources.

Materials to avoid: Strong acids. Copper. Explosion hazard when exposed to nickel carbonyl/oxygen mixture. Strong Oxidizers.

Hazardous decomposition

Products: Hydrocarbons. Smoke. Carbon oxides.

Thermal decomposition: Heating may cause a fire or explosion. Material does not decompose at ambient temperatures. Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke) are possible hazardous decomposition products.

Hazardous reactions: Vapors may form explosive mixture with air. Hazardous polymerization does not occur. Note: No decomposition if used as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Carcinogenicity

NTP: No component of this product which is present at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product which is present at levels greater than or equal to 0.1 % is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product which is present at levels greater than or equal to 0.1 % is identified as a carcinogen or potential carcinogen by OSHA.

CA Prop 65: This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

Skin irritation: Irritating to skin.

Rapid release of gases which are liquids under pressure may cause frost burns of exposed tissues (skin, eye) due to evaporative cooling.

Eye irritation: slight irritation Rapid release of gases which are liquids under pressure may cause frost burns of exposed tissues (skin, eye) due to evaporative cooling.

Further information: Chronic Effects And/Or Target Organ Data: May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite (cold burn). Simple asphyxiant: Acts by displacing oxygen in the lungs thereby diminishing the supply of oxygen available to the blood and tissues. Symptoms include shortness of breath, rapid heart rate, incoordination, lethargy, headaches, nausea, vomiting, and disorientation. Continued lack of oxygen may result in convulsions, loss of consciousness and death. Since exercise increases the tissue need for oxygen, symptoms will occur more quickly during exertion in an oxygen-deficient environment. Oxygen in enclosed spaces should be maintained at normal atmospheric percentage (about 21 percent by volume).

Component:

Propane 74-98-6 Skin irritation: Classification: Irritating to skin. Result: Skin irritation

Eye irritation: Classification: Irritating to eyes. Result: Mild eye irritation

Propane; Propylene 115-07-1 Acute inhalation toxicity: LC50 rat Dose: 658 mg/l

Exposure time: 4 h

Eye irritation: Classification: Irritating to eyes. Result: Mild eye irritation

SECTION 12. ECOLOGICAL INFORMATION

Bioaccumulation : Inherently biodegradable. Accumulation in terrestrial organisms is unlikely.

Toxicity to fish : Not expected to be harmful to aquatic organisms.

Additional ecological Information : Liquid release is only expected to cause localized, non-persistent environmental damage, such as freezing. Biodegradation of this product may occur in soil and water. Volatilization is expected to be the most important removal process in soil and water. This product is expected to exist entirely in the vapor phase in ambient air.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal : Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14. TRANSPORT INFORMATION CFR

Proper shipping name: PETROLEUM GASES,

LIQUEFIED UN-No. : 1075

Class : 2.1

Packing group: **TDG**

Proper shipping name : PETROLEUM GASES,

LIQUEFIED UN-No. : UN1075

Class : 2.1

Packing group : **IATA Cargo Transport**

UN UN-No. : UN1075

Description of the goods : PETROLEUM GASES,

LIQUEFIED Class : 2.1

ICAO-Labels : 2.1

Packing instruction (cargo aircraft) : 200

IATA Passenger Transport

UN-No. : UN1075

Class : 2.1

Not permitted for transport

IMDG-Code

UN-No. : UN 1075

Description of the goods : PETROLEUM GASES, LIQUEFIED Class : 2.1

IMDG-Labels : 2.1

EmS Number : F-D S-U Marine pollutant : No

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Flammable gas Moderate skin irritant

Moderate eye irritant

TSCA Status : On TSCA Inventory

DSL Status : All components of this product are on the Canadian DSL list. SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard

PENN RTK US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

Components CAS-No.

Propane 74-98-6

Butane 106-97-8

Propane; Propylene 115-07-1

Isobutene 75-28-5

MASS RTK US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of
Massachusetts Regulations Section 670.000)

Components CAS-No.

Propane 74-98-6

Butane 106-97-8

Propane; Propylene 115-07-1

Isobutene 75-28-5

NJ RTK US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section
34:5A-5)

Components CAS-No.

Propane 74-98-6

Butane 106-97-8

Propene; Propylene 115-07-1

Isobutane 75-28-5

SARA III US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic
Chemicals (40 CFR 372.65) - Supplier Notification Required

Components CAS-No.

Propane; Propylene 115-07-1

California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer,
birth, or any other reproductive defects.

CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil.
Fractions of crude oil, and products (both finished and intermediate) from the crude oil refining process and
any indigenous components of such from the CERCLA Section 103 reporting requirements. However **CERCLA**

SECTION 103 and SARA SECTION 304 (RELEASE TO THE ENVIROMENT)

The, other federal reporting requirements, including SARA Section 304, as well as the Clean Water Act may
still apply.

SECTION 16. OTHER INFORMATION

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and
belief at the date of its publication. The information given is designed only as guidance for safe handling, use,
processing, storage, transportation, disposal and release and is not to be considered a warranty or quality
specification. The information relates only to the specific material designated and may not be valid for such
material used in combination with any other materials or in any process, unless specified in the text.

M.S.D.S. OXYGEN

Product Name: Oxygen **CAS:** 7782-44-7

Oxygen; Oxygen, compressed (D.O.T.) **DOT I.D No.:** UN 1072

Chemical Name and Synonyms:

Oxygen **DOT Hazard Class:** Division 2.2

Formula: O₂ **Chemical Family:** Oxidizer

HEALTH HAZARD DATA

Time Weighted Average Exposure Limit:

None established (ACGIH 1994-1995). Oxygen is the “vital element” in the atmosphere in which we live and breathe.

Symptoms of Exposure:

Breathing high concentrations (greater than 75 molar percent) causes symptoms of hyperoxia which includes cramps, nausea, dizziness, hypothermia, amblyopia, respiratory difficulties, bradycardia, fainting spells, and convulsions capable of leading to death. For additional information on hyperoxia, see Compressed Gas Association’s Pamphlet P-14.

Toxicological Properties:

- The property is that hyperoxia which leads to pneumonia. Concentrations between 25 and 75 molar percent present a risk of inflammation of organic matter in the body.
- Oxygen is not listed in the LARC, NTP or by OSHA as a carcinogen or potential carcinogen.
- Persons in ill health where such illness would be aggravated by exposure to oxygen should not be allowed to work with or handle this product.

Recommended First Aid Treatment:

Prompt medical attention is mandatory in all cases of overexposure to oxygen. Rescue personnel should be cognizant of extreme fire hazard associated with oxygen-rich atmosphere.

Product Name: Oxygen **CAS:** 7782-44-7

Oxygen; Oxygen, compressed (D.O.T.) **DOT I.D No.:** UN 1072

Chemical Name and Synonyms:

Oxygen **DOT Hazard Class:** Division 2.2

Formula: O₂ **Chemical Family:** Oxidizer

Material Safety Data Sheet: Oxygen

Conscious persons should be assisted to an uncontaminated area and breathe fresh air. They should be kept warm and quiet. The physician should be informed that the victim is experiencing hyperoxia.

Unconscious persons should be moved to an uncontaminated area and given assisted respiration. When breathing has been restored, treatment should be as above. Continues treatment should be symptomatic and supportive.

Hazardous Mixtures of other Liquids, Solids or Gases:

Oxygen vigorously accelerates combustion. Contact with all flammable materials should be avoided. Some materials that are not flammable in air will burn in pure oxygen or oxygen enriched Atmospheres. **PHYSICAL DATA**

Boiling Point: -297.3°F (-182.9°C) **Liquid Density at Boiling Point:** 71.23 lb/ft³ (1141 kg/m³)

Vapor Pressure @ 70°F (21.1°C) = Above the critical temperature of -181.1°F (-118.4°C)

Gas Density at 70°F, 1 atm .0725 lb/ft³ (1.161 kg/m³)

Solubility in Water: Slightly **Freezing Point:** -361.8°F (-218.8°C) **Evaporation Rate:** N/A (Gas) **Specific Gravity (AIR=1) @ 70°F (21.1°C)** = 1.11

Appearance and Odor: Colorless, odorless gas **FIRE AND EXPLOSION HAZARD DATA**

Flash Point (Method used): N/A Gas

Auto Ignition Temperature: N/A

Flammable Limits % by Volume: LEL N/A, UEL N/A

Extinguishing Media: Copious quantities of water for fires with oxygen as the oxidizer. 1

Electrical Classification: Non hazardous

Special Fire fighting Procedures: If possible, stop the flow of oxygen, which is supporting the fire. If cylinders are involved in a fire, safely relocate or keep cool with water spray.

Unusual Fire and Explosion Hazards: Vigorously accelerates combustion. REACTIVITY DATA

Stability: Stable

Incompatibility (Materials to Avoid): None

Hazardous Decomposition Products: All flammable materials

Hazardous Polymerization: Will not occur

Conditions to Avoid: None SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

Evacuate all personnel from affected area. Use appropriate protective equipment. If leak is in user's equipment, be certain to purge piping with an inert gas to attempting repairs. If leak is in container or container valve, contact your closest supplier location or call the emergency telephone number listed herein.

Waste disposal methods:

Do not attempt to dispose of waste or unused quantities. Return in the shipping container properly labeled, with any valve outlet plugs or caps secured and valve protection cap in place to your supplier. For emergency disposal assistance, contact your closest supplier location or call the emergency telephone number listed herein.

SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify type): Positive pressure air line with mask or self-contained breathing apparatus should be available for emergency use.

Ventilation: See Local Exhaust

Local Exhaust: To prevent accumulation above 25 molar percent.

Protective Gloves: As required; any material

Eye Protection: Safety goggles or glasses

Other Protective Equipment: Safety shoes, safety shower SPECIAL PRECAUTIONS

Special Labeling Information:

DOT Shipping Name: Oxygen, Compressed DOT Hazard Class: Division 2.2

DOT Shipping Label: Nonflammable Gas

I.D. No.: UN 1072

Special Handling Recommendation:

Use only in well-ventilated areas. Valve protection caps and valve outlet threaded plugs must remain in place unless container is secured with valve outlet piped to use point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure-reducing regulator when connecting cylinder to lower pressure (<3,000 psig) piping or systems. Do not heat cylinder by any means to increase the discharge rate of product from the cylinder. Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder. For additional handling recommendations, consult Compressed Gas Association's Pamphlets P-1, P-14, and G-4

Special Storage Recommendations:

Protect cylinders from physical damage. Store in cool, dry, well-ventilated area away from heavily trafficked areas and emergency exits and away from full or empty stored cylinders which contain flammable products. Do not allow the temperature where cylinders are stored to exceed 125F (52C). Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Use a "first in -first out" inventory system to prevent full cylinders being stored for excessive periods of time. For additional storage recommendations, consult Compressed Gas Association's Pamphlets P-1, P-i4, and G-4.

Other Recommendations or Precautions:

Oxygen should not be used as a substitute for compressed air in pneumatic equipment since this type generally contains flammable lubricants. Equipment to contain oxygen must be "cleaned for oxygen service." See Compressed Gas Association Pamphlet G- 4.1. Compressed gas cylinders should not be refilled except by qualified producers of compressed gases.

SSpecial Packaging Recommendations:

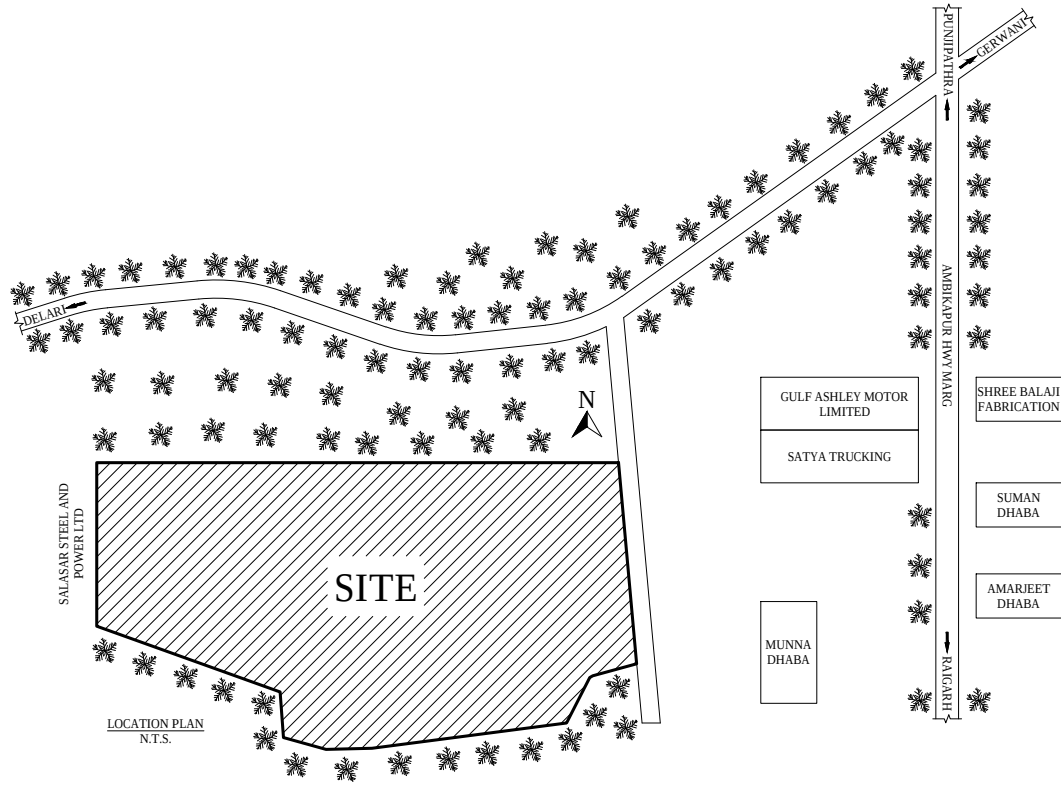
Carbon steels and low alloy steels are acceptable for use at lower pressures. For high pressure applications use stainless steels, copper and its alloys, nickel and its alloys, brass, bronze, silicon alloys, Monel®, Inconel®, or beryllium. Lead and silver or lead and tin alloys are good casketing materials. Teflon® and Kel-F® are the preferred nonmetal gaskets. Special Note: It should be recognized that the ignition temperature of metals and nonmetals in pure oxygen service decreases with increasing oxygen pressure.

www.isocinfo.com

M.S.D.S. OF FURNACE OIL (FO)

Trade Name	:	Furnace Oil (FO)
Hazardous Ingredient	:	No any (only combustible Ingredient are there)
Health	:	Normally no health hazard.
Fire	:	Moderate Fire Hazard flammable but not much volatile.
1. Physical properties:		
Characteristic Nature	:	It is in thick liquid form.
Appearance, Colour & Odour	:	It is black colour liquid with non perceptible odour.
Flash point	:	62° C - 720° C
Specific Gravity	:	0.945 at 20° C
Miscibility	:	Not soluble in water.
2. Fire and Explosive Hazard:		
Flammable limits in air by vol.	:	Upper 8.7 and Lower 1.5
Extinguishing Media	:	Foam/DCP/Halon.
Special Fire Fighting	:	Containers keep cool by spraying with water if exposed to fire, do not use water jet. Extinguish fire by foam DCP or Halon, never by water spray.
Unusual Fire & Explosion:	Confirm	explosive mixture with air particularly in empty Unclean receptacles.
Miscibility	:	Not soluble in water
3. Health Hazard Information.		
Routes of exposure inhalation	:	Normally irritating at normal Temp.
Skin	:	Possible.
Skin absorption	:	Possible.
Eye contact	:	Possible.
Ingestion	:	Possible.
Effects of overexposure or acute over exposure	:	Remove to fresh air and remove soaked clothing. Wash the affected part.
Specific Gravity	:	0.945 at 20° C
Miscibility	:	Not soluble in water
M.S.D.S. OF FURNES OIL CCONTINUE		
4. Emergency and First Aid Procedure.		
Eyes	:	Wash with plenty of water.
Skin	:	Wash with plenty of water.
5. Reactivity Data.:		
Conditions contributing to Instability	:	Nil.
Incompatibility	:	Nil.
Hazardous decomposition products	:	Nil.
Conditions contributing to hazardous Polymerization.	:	Nil.
6. Leakage spillage:		
Steps to be taken if material is released or spilled.		
• No naked, light, no smoking. • Mark road and warn other road users. • Keep public away from danger area. • Use explosion proof electrical equipment. • Keep unwind. • Shut off leaks without risk. • Contain leaking liquid with sand or earth.		
7. Disposal of Tank Waist:		
Tanks are generally be cleaned after the period of 1 or 2 year the waist in the form of mud, this waist will carry to the remote place and if possible burnt and be merged deep in earth.		

INDEX	
HAZARDOUS AREA	
HYDRANT POINT	
ASSEMBLY POINT	
EMERGENCY CONTROL CENTER	
FIRE EXTINGUISHER POINT	
ESCAPE ROUTE	

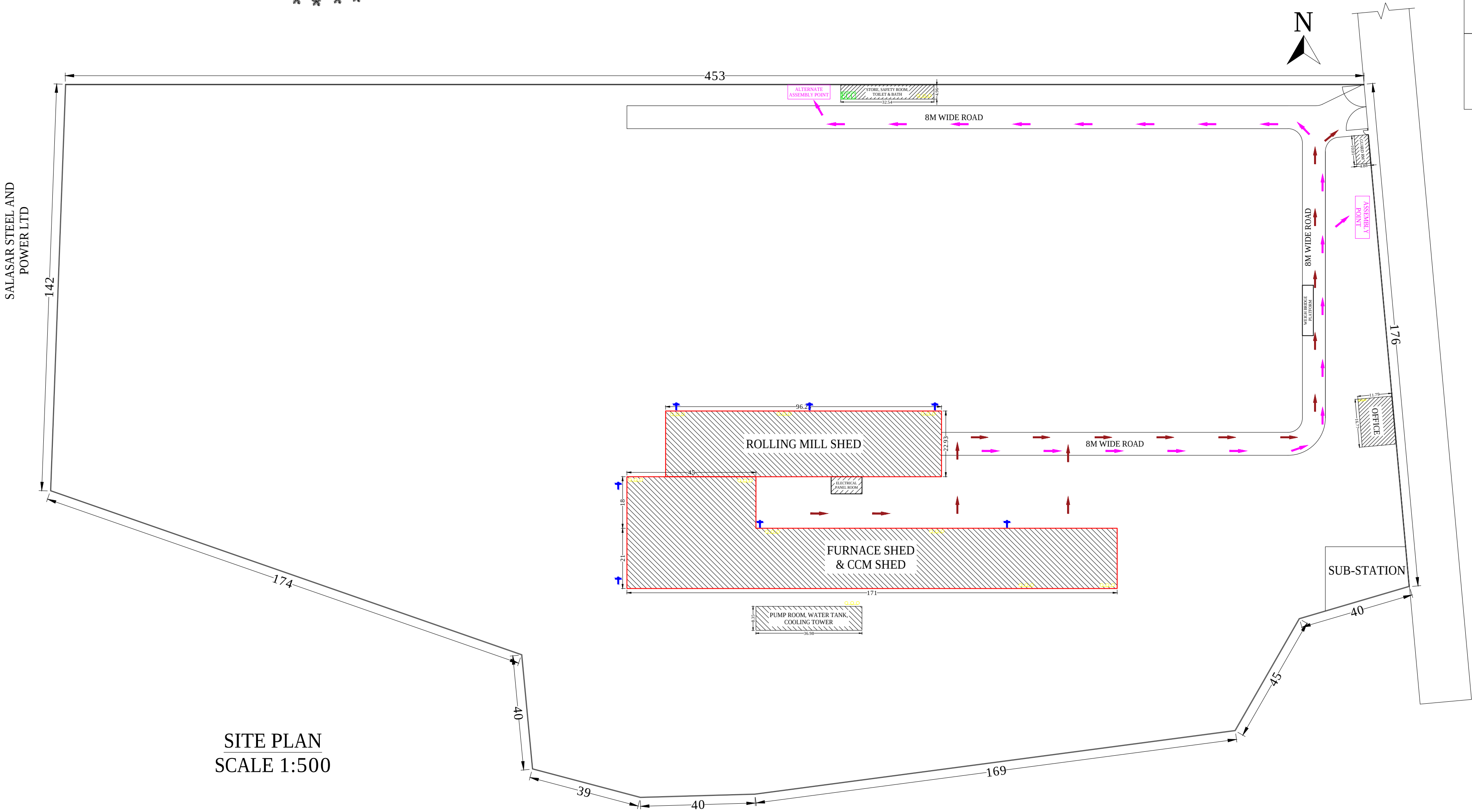


SITE / LAYOUT PLAN OF
M/s SHAMBHAVI ISPAT PRIVATE LIMITED
AT : Village - Gerwani, Tehsil - Gharghoda,
Distt. - Raigarh (C.G.)
KH. No. $\frac{32}{1, 2}$
Total Rakaba (3.58Hect.)

AREA STATEMENT	Area (Sqm)
TOTAL PLOT AREA	35800.00
ROLLING MILL SHED	2205.96
ADMIN OFFICE	197.21
GUARD ROOM	48.77
SAFETY, STORE, FIRST AID, TOILET ROOM & BATH	161.39
WEIGH BRIDGE, CONTROL ROOM & STORE	48.80
ELECTRICAL PANEL ROOM	64.50
FURNACE SHED & CCM SHED	4401.00
PUMP ROOM, WATER TANK & COOLING TOWER	308.78

SIGNATURE APPROVING AUTHORITY INDUSTRIAL
HEALTH AND SAFETY

SIGNATURE
FACTORY OCCUPIER



SITE PLAN
SCALE 1:500

ANNEXURE – XIV: PHOTOGRAPH OF CSR ACTIVITIY
WITH EVIDENCE

PHOTOGRAPH OF CSR ACTIVITY WITH EVIDENCE



कार्यालय ग्राम पंचायत गेरवानी

जनपद पंचायत- रायगढ़, जिला - रायगढ़ (छ.ग.)

मुकेश अग्रवाल

सरपंच

ग्राम पंचायत- गेरवानी



पता - ग्राम पंचायत गेरवानी

जिला - रायगढ़ (छ.ग.)

मो.नं. - 9993484004

क्र.

दिनांक

प्रमाण पत्र

यह प्रमाणित किया जाता है कि ग्राम पंचायत गेरवानी, जिला रायगढ़ के अंतर्गत इंद्रा नगर क्षेत्र में सी.सी. रोड / ढलाई सड़क निर्माण कार्य कराया गया है।

उक्त सड़क निर्माण कार्य में आर्थिक सहयोग / पूर्ण व्यय **Shambhavi Ispat Pvt Ltd** द्वारा किया गया है। इस कार्य से क्षेत्र के आम नागरिकों को आवागमन में सुविधा प्राप्त हुई है तथा ग्राम विकास में महत्वपूर्ण योगदान मिला है।

ग्राम पंचायत गेरवानी की ओर से **Shambhavi Ispat Pvt Ltd** को इस जनहित एवं सामाजिक सहयोग हेतु धन्यवाद एवं प्रशंसा प्रदान की जाती है।

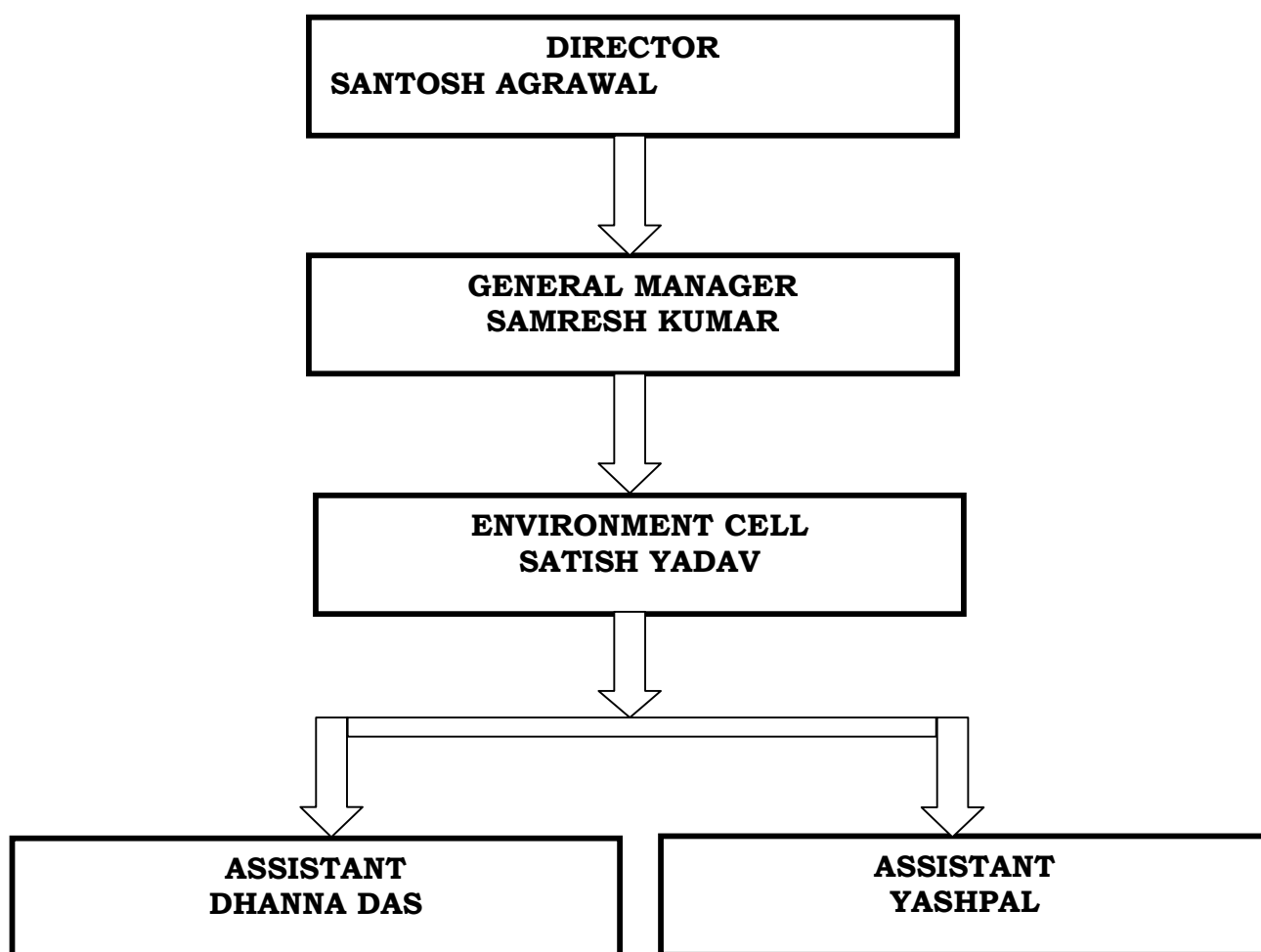
स्थान: गेरवानी

जिला: रायगढ़ (छ.ग.)


मुकेश अग्रवाल
सरपंच
ग्राम पंचायत-गेरवानी
जनपद पंचायत-रायगढ़ (छ.ग.)

**ANNEXURE – XV: DETAILS OF ENVIRONMENT
MANAGEMENT CELL**

ENVIRONMENT MANAGEMENT CELL



ANNEXURE – XVI: THIRD PARTY ENVIRONMENT
AUDIT REPORT

ENVIRONMENTAL AUDIT REPORT

OF

M/s. Sambhavi Ispat

Located At

**Khasra No. 31/1, 31/2, 32/1, 32/2, 32/3,
Village – Gerwani, Tehsil – Raigarh, District – Raigarh
State - Chhattisgarh**



Prepared By

Bhoomi Envirotech Pvt. Ltd.

Accredited in Accordance with Standard ISO/IEC-17025:2017

By NABL (A Constituent Board of Quality Council of India)

**Address -D-1, Sector 3, Priyadarshini Nagar,
Raipur, Chhattisgarh – 492006**

Environmental Audit Period – 14.10.2025 to 15.10.2025	
Document No. – EAR/SI-2025	
Issue No.: 01	Issue Date: 22.10.2025
Rev. No.: 0	Rev. Date: Nil

TABLE OF CONTENT

1.0	INTRODUCTION.....	1
2.0	NEED OF ENVIRONMENTAL AUDIT	1
3.0	ABOUT NABL ACCREDITED COMPANY.....	1
4.0	IMPORTANCE OF ENVIRONMENTAL AUDIT	3
5.0	GENERAL APPROACH OF ENVIRONMENTAL AUDIT.....	3
6.0	LIST OF ENVIRONMENTAL LAWS, REGULATIONS ETC.....	3
7.0	PROJECT SITE.....	4
8.0	BRIEF DESCRIPTION ABOUT THE EXISTING PLANT	5
9.0	EXISTING PRODUCTION CAPACITY	5
10.0	ENVIRONMENT AUDIT FINDINGS/OBSERVATIONS	6
11.0	AREAS OF IMPROVEMENT.....	16
12.0	CONCLUSION AND RECOMMENDATIONS.....	16



LIST OF ANNEXURES

SR. NO.	ANNEXURES
1.	COPY OF ISO CERTIFICATION
2.	THIRD PARTY PHYSICAL VERIFICATION OF TREE PLANTATION REPORT
3.	TEST REPORT OF STACK MONITORING FOR VERIFICATION
4.	TEST REPORT OF AAQ MONITORING FOR VERIFICATION
5.	COPY OF AUTHORIZATION OF HAZARDOUS AND OTHER WASTES
6.	SITE PLAN
7.	COPY OF ON-SITE EMERGENCY PLAN & DISASTER MANAGEMENT PLAN
8.	RECORD OF PERIODICAL MEDICAL EXAMINATION (COPY OF FORM-21)
9.	COPY OF RECENTLY SUBMITTED HALF YEARLY EC COMPLIANCE REPORT
10.	COPY OF PUBLIC LIABILITY ACT



1.0 INTRODUCTION

M/s. Sambhavi Ispat has obtained Environment Clearance for the production of Induction Furnace (8x15 Ton) (M.S. Billet/Steel Ingots), Capacity - 3,96,000 Ton/Year, Rolling Mill (2x500 Ton/Day) (TMT Bars / Wire Rods / Angle / Channel / Patra & Other Re-Rolled Product), Capacity - 30,000 Ton/Year - 3,60,000 Ton/Year, New Coal Gasifier (Producer Gas), Capacity - 19,800 normal cubic meter per hour at Khasra No. 31/1, 31/2, 32/1, 32/2, 32/3, Village - Gerwani, Tehsil & District - Raigarh, State - Chhattisgarh from S.E.I.A.A. Chhattisgarh, Govt. of India, Environment, Forest and Climate Change, Paryavas Bhavan, Sector-19, Nawa Raipur Atalnagar, Raipur vide their letter no. 1166/SEIAA., C.G. /Udhyog/1167, Naya Raipur Atal Nagar dated 19th October 2022. Further Renewal of CTO has obtained for Induction Furnace (4x15 Ton) (M.S. Billet/Steel Ingots), Capacity - 1,98,000 Ton/Year, Rolling Mill (Through Hot Charging) Capacity - 1,95,000 MTPA respectively vide letter no. 9965/TS/CECB/2024, Nava Raipur, Atal Nagar, dated 12/03/2024 from Chhattisgarh Environment Conservation Board, Raipur (C.G.).

2.0 NEED OF ENVIRONMENTAL AUDIT

As per the obtained environment clearance condition No. (vi) of (IX) Corporate Environment Responsibility, the industry is required to carry out third-party environmental audit in every three years. Accordingly the M/s Sambhavi Ispat has appointed Bhoomi Envirotech Pvt. Ltd. to carry out Environmental Audit Report.

3.0 ABOUT NABL ACCREDITED COMPANY

BHOOMI ENVIROTECH PVT. LTD.

Bhoomi Envirotech Pvt. Ltd. (BEPL) address D-1, Sector-3, Behind Vijeta Complex, Priyadarshini Nagar, Raipur, Chhattisgarh which has been registered under the Companies Act, 2013 (18 of 2013) and having accreditation in accordance with Standard ISO/IEC-17025:2017 by NABL (A Constituent Board of Quality Council of India, (NABL Accreditation No. TC-13412) under Discipline of Atmospheric Pollutions, Pollution & Environment, Water and Ore & Minerals. Details of accreditation Certificate is as under;





National Accreditation Board for
Testing and Calibration Laboratories

NABL

CERTIFICATE OF ACCREDITATION

BHOOMI ENVIROTECH PRIVATE LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

D-1, SECTOR-3, PRIYADARSHINI NAGAR, RAIPUR, CHHATTISGARH, INDIA

in the field of

TESTING

Certificate Number: TC-13412

Issue Date: 01/04/2024

Valid Until: 31/03/2026

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: BHOOMI ENVIROTECH PVT. LTD.

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



4.0 IMPORTANCE OF ENVIRONMENTAL AUDIT

Environmental Audit is a management tool comprising a systematic, documented, periodic and objective evaluation of how well environmental organization, management systems and equipments are performing with the aim of:

1. Waste prevention and reduction,
2. Facilitating management control of environmental practices,
3. Compliance with company policies, including meeting regulatory requirements,
4. Placing environmental information in the public domain.

5.0 GENERAL APPROACH OF ENVIRONMENTAL AUDIT

The general approach followed for environmental audit studies cover three main phases namely collection of information, evaluation of information collected, and formulation of conclusion, including identification of aspects needing improvement. These phases cover, pre-audit preparation, a site visit normally involving interviews with personnel and inspection of facilities and post visit activities.

6.0 LIST OF ENVIRONMENTAL LAWS, REGULATIONS ETC.

The Environmental Audit generally covers, but would not be limited to, following environmental laws, regulations etc:

SR. NO.	ENVIRONMENTAL LAWS, REGULATIONS ETC.
1.	AIR (PREVENTION AND CONTROL OF POLLUTION) ACT, 1981 AND RULES, 1982
2.	WATER (PREVENTION AND CONTROL OF POLLUTION) ACT, 1974 AND RULES, 1975
3.	ENVIRONMENT PROTECTION ACT, 1986 AND RULES, 1986
4.	HAZARDOUS AND OTHER WASTES (MANAGEMENT, HANDLING TRANS - BOUNDARY MOVEMENT) RULES, 2016
5.	PLASTIC WASTE (MANAGEMENT & HANDLING) RULES, 2016
6.	OZONE DEPLETING SUBSTANCES (REGULATION AND CONTROL) RULES, 2000
7.	MUNICIPAL SOLID WASTES (MANAGEMENT & HANDLING) RULES, 2016/MANAGEMENT OF NON HAZARDOUS WASTE
8.	CONSTRUCTION & DEMOLITION WASTE MANAGEMENT RULES, 2016
9.	E-WASTE (MANAGEMENT & HANDLING) RULES, 2022

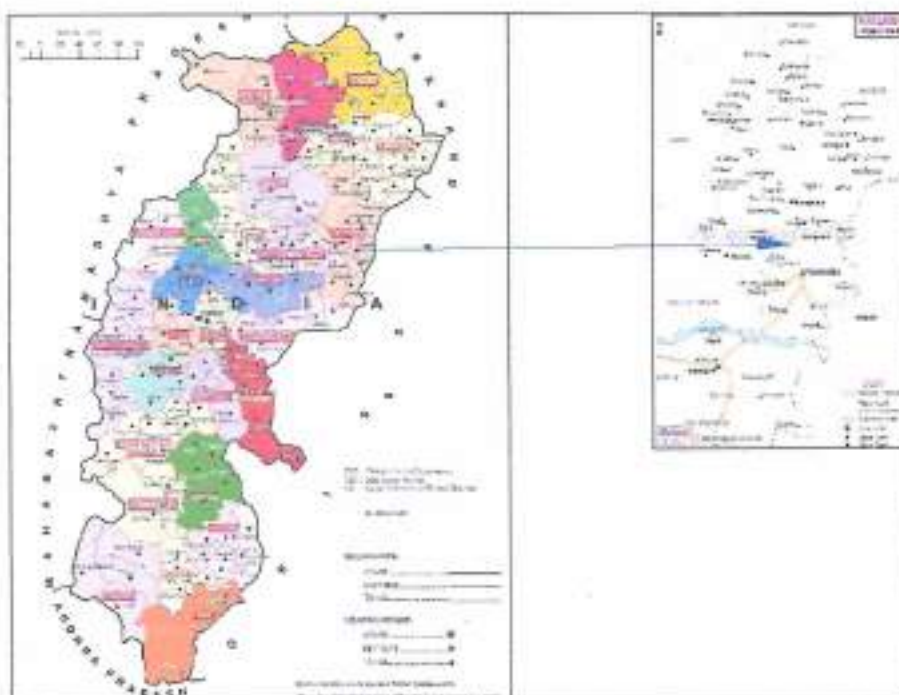


ENVIRONMENTAL AUDIT REPORT

10.	BATTERIES (MANAGEMENT AND HANDLING) RULES, 2022
11.	BIO-MEDICAL WASTE (MANAGEMENT) RULES, 2016
12.	NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000
13.	CONDITIONS PRESCRIBED IN CONSENT/ AUTHORISATION/ ENVIRONMENTAL CLEARANCE/ REGISTRATION OR PRESCRIBED OTHERWISE BY THE CECB/CPCB
14.	DIRECTIVES OF NATIONAL GREEN TRIBUNAL/ANY OTHER COURT OF LAW
15.	WORKING OF ONLINE CONTINUOUS EMISSION/ EFFLUENT MONITORING SYSTEM AND CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM
16.	ISSUES RAISED IN ANY COMPLAINT/NEWS ITEMS, REFERENCE, ETC

7.0 PROJECT SITE

M/s. Sambhavi Ispat, is situated at Khasra No. 31/1, 31/2, 32/1, 32/2, 32/3, Village – Gerwani, Tehsil & District – Raigarh, State – Chhattisgarh. The company bounded by latitude $21^{\circ}59'33.52''\text{N}$, longitude $83^{\circ}22'11.81''\text{E}$. The area falling in the Survey of India Toposheet No. 64 O/5. It is well connected to road network, and located near Ambikapur Highway (SH-01).



LOCATION MAP



8.0 BRIEF DESCRIPTION ABOUT THE EXISTING PLANT

Name of Company/Organization	of	M/s. Sambhavi Ispat
Name of Project		Environmental Audit Report
Location of Project		Khasra No. 31/1, 31/2, 32/1, 32/2, 32/3, Village - Gerwani, Tehsil & District - Raigarh, State - Chhattisgarh
Category (as per EIA Notification)		B
EC Identification No. & Date		letter no. 1166/SEIAA., C.G. /Udhyog/1167, Naya Raipur Atal Nagar dated 19 th October 2022.
Consent To Operate		Current CTO No. 9965/TS/CECB/2024, Nava Raipur, Atal Nagar, dated 12/03/2024 which is valid till 31.01.2027.
Project Cost		Rs. 1075 Lakh (Based on CA Certificate)
Total Project Land		8.223 Hectare
Latitude and Longitude		Latitude - 21°59'33.52"N Longitude - 83°22'11.81"E

9.0 EXISTING PRODUCTION CAPACITY

Sr. No.	Name of Unit	Name of Product	Production Capacity
1.	Induction Furnace	MS billets/Steel Ingots	3.96.000 TPA
2.	Rolling Mill (Through Hot Charging)	TMT Bars / Wire Rods / Angle / Channel / Patra & Other Re-Rolled Product	3,60,000 TPA
3.	Coal Gasifier	Producer Gas	19,800 Nm ³ /Hr



ENVIRONMENTAL AUDIT REPORT

10.0 ENVIRONMENT AUDIT FINDINGS/OBSERVATIONS

The findings and observations of this audit are presented below, based on documentation reviewed following site inspection and interviews with relevant personnel.

A. GENERAL

1.	Name of the Industry	M/s Sambhavi Ispat																				
2.	Location	Khasra No. 31/1, 31/2, 32/1, 32/2, 32/3, Village – Gerwani,Tehsil & District – Raigarh, State – Chhattisgarh																				
3.	Registered Office Address	Khasra No. 31/1, 31/2, 32/1, 32/2, 32/3, Village – Gerwani,Tehsil & District – Raigarh, State – Chhattisgarh																				
4.	Number of Worker employed	Total 75 nos. of employee																				
5.	Electricity Details	19750 KVA <i>(Source: Details provided by project proponent)</i>																				
6.	D.G. Set details (Nos. with Capacity)	<table><tr><th>Nos. of DG Set</th><th>Details</th></tr><tr><td>1</td><td>JC/KHD/320/TP/28K372-41.5 V</td></tr></table>			Nos. of DG Set	Details	1	JC/KHD/320/TP/28K372-41.5 V														
Nos. of DG Set	Details																					
1	JC/KHD/320/TP/28K372-41.5 V																					
7.	Name/Residential address of all directors/partners	<table><tr><th>Full Name</th><th>Present Residential Address</th><th>Designation</th></tr><tr><td>Amit Kumar Agrawal</td><td>Gandhiganj,Raigarh-496001 (C.G.)</td><td>Director</td></tr><tr><td>Anil Kumar Agrawal</td><td>Laltanki, Near Kewdabadi Bus Stand, Raigarh-496001 (C.G.)</td><td>Director</td></tr><tr><td>Pawan Kumar Agrawal</td><td>Laltanki, Near Kewdabadi Bus Stand, Raigarh-496001 (C.G.)</td><td>Director</td></tr><tr><td>Santosh Agrawal</td><td>Park City Colony, Kabir Chowk, Raigarh-496001 (C.G)</td><td>Director</td></tr><tr><td>Shyamlal Agrawal</td><td>Laltanki, Near Kewdabadi Bus Stand, Raigarh-496001 (C.G.)</td><td>Director</td></tr></table>			Full Name	Present Residential Address	Designation	Amit Kumar Agrawal	Gandhiganj,Raigarh-496001 (C.G.)	Director	Anil Kumar Agrawal	Laltanki, Near Kewdabadi Bus Stand, Raigarh-496001 (C.G.)	Director	Pawan Kumar Agrawal	Laltanki, Near Kewdabadi Bus Stand, Raigarh-496001 (C.G.)	Director	Santosh Agrawal	Park City Colony, Kabir Chowk, Raigarh-496001 (C.G)	Director	Shyamlal Agrawal	Laltanki, Near Kewdabadi Bus Stand, Raigarh-496001 (C.G.)	Director
Full Name	Present Residential Address	Designation																				
Amit Kumar Agrawal	Gandhiganj,Raigarh-496001 (C.G.)	Director																				
Anil Kumar Agrawal	Laltanki, Near Kewdabadi Bus Stand, Raigarh-496001 (C.G.)	Director																				
Pawan Kumar Agrawal	Laltanki, Near Kewdabadi Bus Stand, Raigarh-496001 (C.G.)	Director																				
Santosh Agrawal	Park City Colony, Kabir Chowk, Raigarh-496001 (C.G)	Director																				
Shyamlal Agrawal	Laltanki, Near Kewdabadi Bus Stand, Raigarh-496001 (C.G.)	Director																				
8.	Telephone Nos. (Residential & Industrial) Email of Industry: Email of Partner/Director:	Tel. No. - 9647266472 E-mail – shambhaviispat@gmail.com																				
9.	No. of shifts & timings	A - SHIFT TIME 6.00 AM TO 2.00PM, B - SHIFT TIME 2.00PM TO 10.00 PM, C - SHIFT 10.00PM TO 6.00AM GENERAL - SHIFT 9.30 AM TO 5.30 PM																				



ENVIRONMENTAL AUDIT REPORT

10.	Name & Address of the in-charge Environment/Safety Division/Cell/Unit:	Mr. Ranjeet Bhowmic Add. - Village - Gerwani, Tehsil & District - Raigarh, State -Chhattisgarh								
11.	No. of days during which production activities were in operation during the Audit period covered	<table><tr><th>Name of Unit</th><th>No. of production activity days</th></tr><tr><td>Induction Furnace</td><td>330</td></tr><tr><td>Rolling Mill (Through Hot Charging)</td><td>330</td></tr><tr><td>Coal Gasifier</td><td>Not yet installed</td></tr></table> <i>(Source: Details provided by Project Proponent)</i>	Name of Unit	No. of production activity days	Induction Furnace	330	Rolling Mill (Through Hot Charging)	330	Coal Gasifier	Not yet installed
Name of Unit	No. of production activity days									
Induction Furnace	330									
Rolling Mill (Through Hot Charging)	330									
Coal Gasifier	Not yet installed									
12.	Has the industry obtained ISO9000/ ISO14000/ OSHAS18000/ Any other EM accreditation/Certification recognition?	Yes, the Industry has obtained BIS certification. The certificate is enclosed as Annexure-01 .								
13.	Whether the industry has adopted cleaner production/cleaner technology /Clean Development Mechanism	Yes, the industry has adopted a cleaner production mechanism. The industry has installed pollution control systems in all production and processing units Bag House, mechanical collectors, etc. The industry has developed green belts on the plant premises. Third party physical verification of tree plantation report is enclosed as Annexure-02.								

B. PRODUCT DETAILS

1.	Name of Production& Capacity with Yield/purity per day:			
Sr. No.	Name of Unit	Name of Product	Production Capacity	Production during FY - 2024-25
1.	Induction Furnace	MS billets/Steel Ingots	3.96.000 TPA	38954.28 TPA
2.	Rolling Mill (Through Hot Charging)	TMT Bars / Wire Rods / Angle / Channel / Patra & Other Re-Rolled Product	3,60,000 TPA	86082.38 TPA
3.	Coal Gasifier	Producer Gas	19,800 Nm ³ /Hr	Not yet installed

(Source: Details provided by Project Proponent)



ENVIRONMENTAL AUDIT REPORT

2. Name of all by-products and its quantity per day:

Sr. No.	Name of Unit	Name of Product	Name of by-product	Quantity During FY-2024-25
1.	Induction Furnace	MS billets/Steel Ingots	Nil	Nil
2	Rolling Mill (Through Hot Charging)	TMT Bars / Wire Rods / Angle / Channel / Patra & Other Re-Rolled Product	Miss Roll & Mill Scales	1083.69 TPA

(Source: Details provided by Project Proponent)

3. Date of commencement of production for each product. Whether production is as per consented quantity:

Sr. No.	Name of Unit	Year of Commencement
1.	Induction Furnace	2020
2.	Rolling Mill (Through Hot Charging)	2020
3.	Coal Gasifier	Not Yet Installed

4. Name of raw material required per MT of the products

Sr. No.	Name of Unit	Name of Product	Name of Raw Material	Consumption of Raw Material per unit of Output During FY -2024-25
1.	Induction Furnace	MS billets/Steel Ingots	Sponge Iron	123004.670 Ton
			Pig Iron	19672.22 Ton
			MS Scrap	786.48 Ton
			Silico Manganese	1041.56 Ton
			Slag Metal	6281.77 Ton
2.	Rolling Mill (Through Hot Charging)	TMT Bars / Wire Rods / Angle / Channel / Patra & Other Re-Rolled Product	Hot MS Billets	87166.07 TPA

(Source: Details provided by Project Proponent)

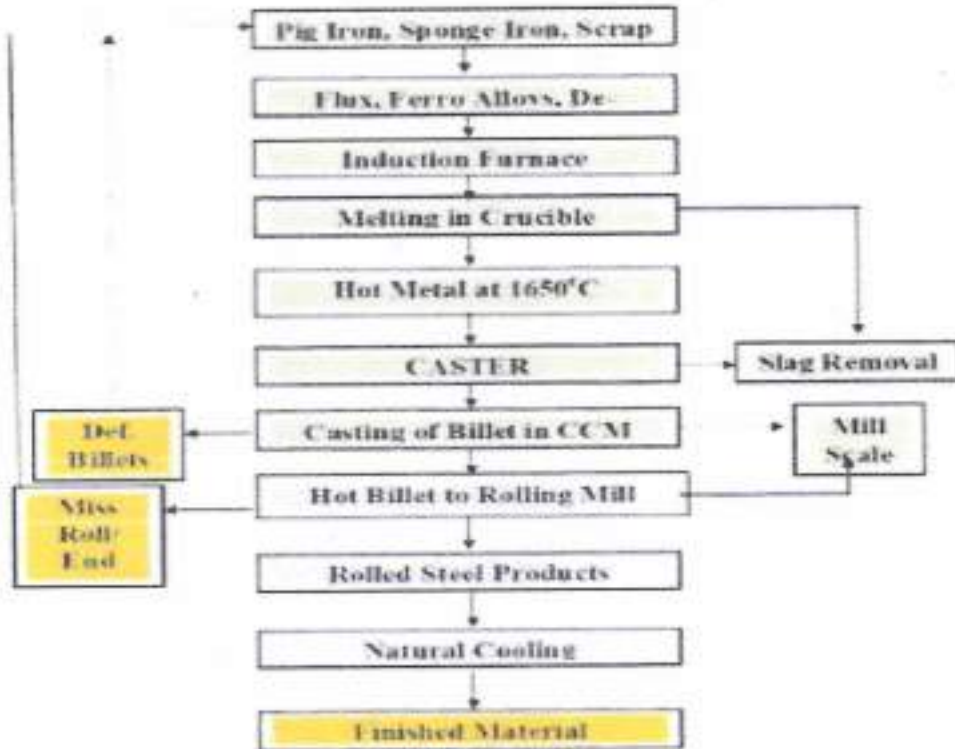
5. Whether the manufacturing process is continuous or batch wise – continuous

6. a. Details manufacturing process with schematic flow diagram



ENVIRONMENTAL AUDIT REPORT

Manufacturing Process in Steel Melting Shop along with hot Charging Rolling Mill:



7.

MATERIAL BALANCE OF RAW MATERIAL

Sr. No.	Name of Unit	Production Capacity	INPUT		OUTPUT	
			Name of Raw Material	Consumption of Raw Material During FY - 2024-25 in MT	Name of Product	Quantity during FY - 2024-25 in MT
1.	Induction Furnace	3,96,000 TPA	Sponge Iron	123004.670	MS Billet/Ingot	126120.35
			Pig Iron	19672.22	Slag	24666.33
			MS Scrap	786.48		
			Silico	1041.56		
			Manganese	6281.77		
			Slag Metal			
			Total	150786.7	Total	150786.7
2.	Rolling Mill (Through Hot Charging)	3,60,000 TPA	Hot MS Billet	87166.07	TMT Bar	86082.380
					Defective and Miss Roll	481.290
					Mill Scale	602.400
			Total	87166.07	Total	87166.07

(Source: Details provided from account department of company)



C. WATER

1. Water consumption quantity (FY-2024-25)

Sr. No.	Particular	Water Consumption Quantity (In KLD)
1.	Steel Melting Shop	12
2.	Rolling Mill	20
3.	Domestic	5

(Source: Details provided by Project Proponent)

2. The quantity of waste water generated

Sr. No.	Particular	Waste Water Generated Quantity (In KLD)
1.	Steel Melting Shop	Nil
2.	Rolling Mill	Nil
3.	Domestic	2

(Source: Details provided by Project Proponent)

3. Is effluent treatment plant (ETP) installed (Yes/No) No, effluent treatment plant (ETP) is not installed. PP informed that there is no any effluent generated in SMS division and Rolling Mill.

If yes, provide details thereof:

- Capacity - NA
- Flow Diagram - NA

4. Method of disposal of treated effluent Not applicable as no any effluent generated in SMS division and Rolling Mill.

5. Is sewage treatment plant (STP) installed (Yes/No) No, sewage treatment plant (STP) is not installed. PP informed that domestic effluent so generated from the plant is being treated in septic tank followed by soak pit.

If yes, provide details there of:

- Capacity - Nil
- Flow Diagram - Nil

6. Whether the quality of treated effluents meet the specific norms (Yes/No) Not applicable as there is no any effluent generated in SMS division and Rolling Mill.

If no, the extent of deviation and reason thereof:

NA

7. Details of the operator/chemist responsible for operation and maintenance of ETP/STP

- Name of Operator/Chemist - NA
- Qualification & experience - NA

8. The current status of consent under the Water Act - 1974 Updated, PP has shown updated consent copy during site visit.



D. AIR

1. No. of the flue gas stack, their height from ground level, nature and consumption of fuel:

S. No.	Flue Gas Stack Details	Height from ground level (m)	Material of Construction	Type of Fuel used
1	Stack (Attached to induction furnace)	30	Mild Steel (MS)	Electricity

(Source: As per the filed visit and details provided by PP)

2. The details pertaining to the stack monitoring facility:
- The industry has installed a continuous emission monitoring system for conduct stack emission quality monitoring regularly which is connected to CECB and CPCB server. The industry also has been conducting third-party monitoring work by NABL accredited laboratory from time to time.
- Details of CEMS are as under;
 Link: <http://www.pollution-monitor.com/>
 User ID : SIPL
 Password: sipl@123

3. No. of the process stack, their height from ground level, source: Not Applicable

(Source: Details provided by Project Proponent)

4. The quality of emission from each flue gas stack & the process stack & the extent of deviation from them:
- The monitoring of emission from stack is being done through continuous emission monitoring system as well as sample has been collected and test have been done by Bhoomi Envirotech Pvt. Ltd.
- The quality of emission from stack comes under limits specified as per the consent on the basis of the analysis results of samples taken from stack during site visit for verification.
 Test report of stack collected sample for verification is attached as **Annexure-03**.
5. The ambient air quality within the factory premises meets the specific norms, if no, the extent of deviation and reasons thereof:
- The monitoring of ambient air quality monitoring is being done through continuous ambient air quality monitoring system as well as sample has been collected and test have been done by Bhoomi Envirotech Pvt. Ltd.
- The ambient air quality within the factory premises comes under limits as per the National Ambient Air Quality Standards (NAAQS) on the basis of the analysis results of samples taken from four different locations within premises during site visit for verification.
 Test report of ambient air quality monitoring



ENVIRONMENTAL AUDIT REPORT

		collected sample for verification is attached as Annexure-04 .
6.	The current status of consent under the Air Act - 1981	Updated, PP has shown an updated consent copy during the site visit.

7. Details of air pollution control measures for all flue gas stack and process stack:

A. Pollution control measures details of flue gas stack

S. No.	Flue Gas Stack Details	Air Pollution Control Device
1	Stack (Attached to Induction Furnace)	Bag House

• Bag House

S. No.	Particular	Bag House (Attached to Induction Furnace)
1	Gas Flow (m ³ /hr.)	70000 m ³ /hr
2	Bag Dimensions D x L (mm)	160 x 3660 mm
3	Inlet Dust Load (g/m ³)	50 g/ m ³
4	Design Pressure (mm WG)	500 mm WG
5	Service Temperature	120°
6	Max Design Temperature	150°
7	Dust Density for Discharge (kg/m ³)	3500 kg/m ³
8	Air to Cloth Ratio (m ³ /min./m ²)	1.4 m ³ /min./m ²
9	Pressure Drop across Bagfilter (Flange to Flange) (mm WG)	150 mm WG
10	Number of Bags	576 Nos

(Source: Details provided by Project Proponent)

B. Pollution control measures details of process stack – Nil

8.	Whether the production is as per consented quantity	Yes, (Source: Details provided by account department of company)
----	---	---

E. HAZARDOUS (SOLID) WASTE:

1. The Quantity of Hazardous Waste/ Solid waste

• Hazardous Waste

Sr. No.	Name of Hazardous Waste	During the current FY-2024-25
1.	Nil	Nil

(Source: Details provided by Project Proponent)



ENVIRONMENTAL AUDIT REPORT

• Solid Waste

Sr. No.	Name of the Solid Waste	Name of Waste	Total Quantity During the FY-2024-25
1.	From Process	Induction Furnace Slag	24666.330 Ton
		Mill Scales	602.400 Ton
		Miss Roll	481.290 Ton
2.	Quantity recycled or reutilized within the unit.	Mill Scales	602.400 Ton
		Miss Roll	481.290 Ton

(Source: Details provided by Project Proponent)

2	The method of storage, treatment & disposal of hazardous/ solid waste	It was found during site visit that the solid waste stored under covered shed and made impervious (pucca). PP informed that the Slag is being crushed and iron ore is being recovered & remaining non magnetic material is being used as sub base material in road construction and is also being given to brick manufactures. Mill scales so generated from the rolling mill are being given to nearby Ferro alloys manufacturing units or casting units. End Cutting is being recycled back as raw material in own induction furnace.
	The quantity of Hazardous waste sent to TSDF.	PP informed that there is no any Hazardous waste sent to treatment, storage, and disposal facilities (TSDFs).
3	The status of authorization under EPA-86 for hazardous and other waste	During site visit PP informed that there is no any hazardous and other waste generated in the plant.

F. SITE PLAN:

1.	The site plan showing the location of effluent treatment plan, final point of disposal of effluent, sampling point, drainage line, stacks, solid waste storage, disposal area and green belt.	PP has shown the site plan during the site visit. The site plan is attached as Annexure-05 .
----	---	--

G. RESOURCES RECOVERY:

1.	The details regarding resources recovery of treated effluent for recycle/reuse.	Nil
----	---	-----



ENVIRONMENTAL AUDIT REPORT

H. HEALTH:

1.	Whether any hazard is involved in the manufacturing or from the work environment (Yes or No)	Yes
	If yes, provide details thereof:	Normal industrial accidental (i.e. fire/accident etc) hazard. These "Onsite Emergency Plan" & "Disaster Management Plan" have been prepared and approved by the Health and Safety Department Government of Chhattisgarh. A copy of Onsite Emergency Plan & Disaster Management Plan is attached as Annexure-06 .
2.	Whether industry has pre-employment and periodical medical examination facilities (Yes or No.)	It was found that the industry has medical examination facilities.
	If yes, provide details thereof:	The record of the periodical medical examination (Form-21) is attached as Annexure-07 .
3.	Whether health record are maintained regarding adverse effect on the health of workers (Yes or No)	Health records are maintained and PP informed that no adverse effect is found on workers' health.
	If yes, provide details thereof:	N.A.
4.	Whether industry has appointed a factory medical officer (Yes or No)	Yes
	If yes, Full time or part time: Full Time Name of Medical Officer: Dr. Aharnish Agrawal (As on date) Qualification: Bachelor of Medicine & Bachelor of Surgery	
5.	Details of medical facility available: Dispensary : Yes Ambulance : No First Aid Box: Yes	
6.	Whether sanitary facility like water closets, uninals, bathroom are provided and are satisfactory: Yes,	

I. ACCIDENTS:

1.	The details of accidents in the factory, if any and remedial measures taken:	PP informed that there is no major accidents happened as on date in the factory. All the precaution and measure as prescribed in Onsite Emergency Plan prepared by industry is being complied.
----	--	--



J. SAFETY MEASURES:

1.	General Environment of the factory. Please tick (✓) the appropriate column.		
a.	House Keeping	Good	Fair ✓
b.	Dustiness	High	Medium ✓
c.	Lighting	Good ✓	Fair
d.	Ventilation	Good ✓	Fair
2.	Whether the following protective appliance are provided to all the persons:		
	Appliances	Yes/No	If Yes, How many?
	Googles	Yes	150 Nos.
	Gloves	Yes	250 Nos.
	Helmet	Yes	225 Nos.
	Ear Plug	Yes	67 Nos.
	Face Masks	Yes	80 Nos.
	Fire Suit	Yes	01 Nos.
<i>(Source: Details provided by Project Proponent)</i>			
3.	The details of facilities for disaster management/gas leakage:	The industry has shown an On-Site emergency plan. On Site emergency plan is attached as Annexure-06.	
4.	Whether on site/off site emergency plans are prepared and are being implemented/ upgraded regularly; please give details:	The industry has shown an On-Site emergency plan. On Site emergency plan is attached as Annexure-06.	
5.	Whether records of occupational hazards are maintained?	Yes	
6.	Prevention measures adopted to minimize occupational hazards.	Yes	

K. REMEDIAL MEASURES:

1.	The details of sources; monitoring & measures taken for control of noise pollution in & around the industrial premises:	It was observed that the noise was generating from SMS Floor in plant premises. To control of noise pollution the industry has provided Ear Plugs for employees who worked in noise source area also developed plantation around plant premises.
2.	The details in respect of cases/complaints under the Water Act-1974, the Air Act-1981 & the EPA 1986:	Project Proponent informed that there are no cases/complaints pending under the Water Act 1974, the Air Act 1981 & the EPA 1986.
3.	The Compliance report with respect	During site visit, PP informed that the industry has



ENVIRONMENTAL AUDIT REPORT

	to all the conditions of NOC/Consent (Under all the Acts):	been submitted Half Yearly Environmental Clearance condition compliance report regularly. Recently submitted Half Yearly EC Compliance report is attached as Annexure-8 .
4.	Incidents of spillages, leakages etc. and remedial measures thereof:	It was observed that no Incidents of spillages, or leakages found during site visit.
5.	Whether insurance policy obtained under PLI Act. Yes/No	No,
	If Yes, provide details	-

11.0 AREAS OF IMPROVEMENT

1. Industry need to improve green belt density and carry out physical verification of tree plantation by a third party.
2. Industry need to improve housekeeping in an organized manner and require much improvement.
3. Industry need to improve the sprinkler system so fugitive dust minimize further in better way.
4. Industry need to improve rain water harvesting system and maintain time to time.
5. Industry need to take necessary action for storage of raw materials in scientific manner at specified area only.
6. Need to submit EC /CTE/ CTO Compliances/Renewals in time time-bound manner to concern authority.

12.0 CONCLUSION AND RECOMMENDATIONS

During the environmental legal compliance audit conducted at M/s. Sambhavi Ispat facility located in the state of Chhattisgarh, some good practices were observed during the auditing while some numbers of partial/non-compliances were also observed/found. In some cases, these partial/non-compliances may be followed up with documentation.

We suggest to the industry that, whatever non-compliance or partial compliance work has been done during auditing should be completed within the stipulated time.

A compliance management system should be implemented which will have proper forms and formats along with a reminder system.



ENVIRONMENTAL AUDIT REPORT

Name of the responsible person of the industry:

Mr. Ranajit Bhowmik
(Environment Engineer)

Prepared by:

BHOOMI ENVIROTECH PRIVATE LIMITED

(Accredited in Accordance with Standard ISO/IEC-17025:2017 by NABL (A Constituent
Board of Quality Council of India, NABL Accreditation No. TC-13412)

Address - D-1, Sector - 3, Priyadarshini Nagar, Behind Vijeta Complex, Raipur - 492006



Site Visit Photographs

Photograoh of Green Belt



Photograph of Covered Vehicles



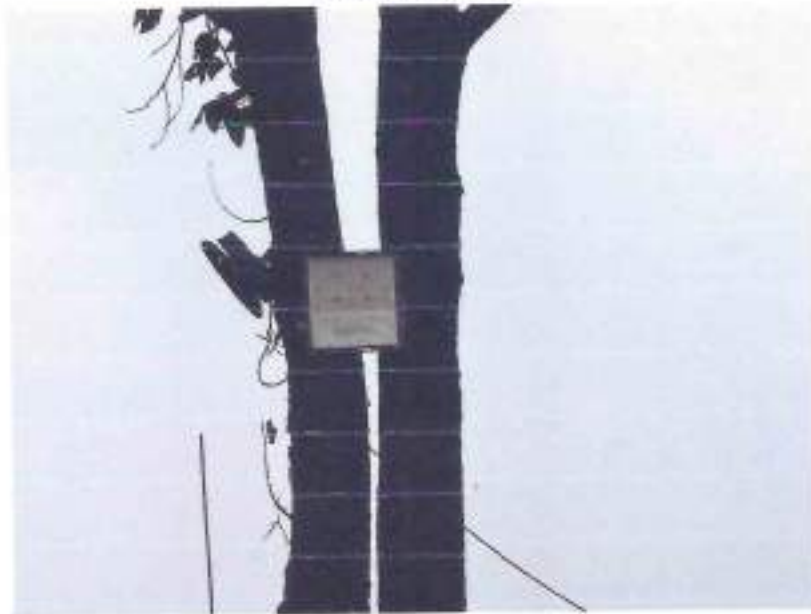
Photograph of Garland Drain



CEQM & CAAQM DISPLAY BOARD



LED Light



Internal Pucca Road



Covered Raw Material Shed



ANNEXURES

-----हिंदी लेटर अभी उपलब्ध नहीं है-----

भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

Attachment to Licence No. CM/L- 5900106784

सीएम/एल संख्या CM/L- No.	लाइसेंसधारी का पता सहित नाम Name of the Licensee with the Factory Address	उत्पाद का नाम Name of the Product	भा मा संख्या IS No.
5900106784	M/S SHAMBHAVI ISPAT VILL & POST: GERWANI, GERWANI, RAIGARH, DISTRICT: RAIGARH, CHHATTISGARH - 496001	Carbon Steel Cast Billet Ingots, Billets, Blooms and Slabs for Re-Rolling into Steel for General Structural Purposes - Specification	IS 2830: 2012

Endorsement No. 02 Dated 12/06/2025

Consequent upon the revision of IS 2830:2012 as IS 14650: 2023, the Indian Standard number specified in the schedule of the licence stands revised as under with effect from 30.09.2024.

IS 14650: 2023

Unalloyed and Alloyed Steel Ingot and Semi-finished Products for Re-Rolling Purposes -Specification

Consequent upon the above changes, the revised scope of licence in Column (3) of the table in schedule of the Licence along with the Standard Mark in Column (1) of schedule is amended as follows:

**Unalloyed and Alloyed Steel Ingot and Semi-finished Products for Re-Rolling Purposes -Specification;
Continuously Cast Billets and Blooms,**

**IS 14650 CPS IS 10748 Grade 1 / 2 / 3 / 4 / 5 / 6, IS 14650 CPS IS 2062 E - 250 / E -275 / E - 300 / E - 350 in
Quality A / B0 / BR /C, IS 14650 CPS IS 1079 Grade HR0 / HR1 / HR2 / HR3/ HR4 / ISH 270C / ISH 270D
/ ISH 270E, IS 14650 CPS IS 11513 Grade CR0/ CR1 / CR2 / CR3 / CR4 / CR5 / CR6 / CR7 / CR8 / CR9 /
CR10 / CR11 /CR12 / CR 13 / CR14 / CR 15, IS 14650 CPS IS 1786 Fe - 415 / Fe - 415D /Fe - 415S / Fe -**

500 / Fe - 500 D / Fe - 500S / Fe - 550 / Fe - 550 D / Fe - 600 / Fe - 650 / Fe 700, IS 14650 CPS IS 7887 in Grade 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 4M / 6M / 7M / 8M / 10M, Without optional Requirements (Low Carbon Only).

Other terms and conditions of licence remain same.

(Suman Kumar Gupta)
Scientist E/Director & Head

BUREAU OF INDIAN STANDARDS

Attachment to Licence No. CM/L- 5900070314

CM/L-No	Name of the Licensee with the Factory Address	Name of the Product	Indian Standard No.
5900070314	Shambhavi Ispat -Village Gerwani , , Raigarh : 496001	High strength deformed steel bars and wires for concrete reinforcement-	IS 1786 : 2008

Endorsement No. 6 Dated 25-Oct-2025

Whereas, the licence was valid upto Twenty Seventh October Two Thousand Twenty Five.

Now, consequent upon renewal, the validity of the licence given in schedule of the Licence Dated 26-OCT-2025 has been extended from Twenty Seventh October Two Thousand Twenty Five to Twenty Sixth October Two Thousand Twenty Six

Other terms and conditions of licence remain same.

Branch Head (Raipur Branch Office)

M/s Shambhavi Ispat Pvt. Ltd.
PLANTATION EVALUATION & MONITORING REPORT

PHYSICAL VERIFICATION, MONITORING & EVALUATION OF PLANTATION

M/s Shambhavi Ispat Pvt. Ltd.

Vill -Gerwani, Tah & Distt Raigarh (C.G.)

Year – 2025



Evaluation & Verification done by: -

ARIF ALI

Rtd. Dy. CF. (SFS) CONSULTANT
(ENVIRONMENT AND FOREST) RAIPUR

**EVALUATION & VERIFICATION OF
GREEN BELT**

M/s Shambhavi Ispat Pvt. Ltd.

Vill -Gerwani, Tah & Distt Raigarh (C.G.)

Year 2025



Evaluation & Verification by: -

ARIF ALI

**Rtd. Dy. CF. (SFS) Consultant
(Environment and Forest) Raipur**

Executive Summary

M/s Shambhavi Ispat Pvt. Ltd. located at Vill -Gerwani, Tah & Distt Raigarh (C.G.) The company is having fifteen ton Induction Furnaces with a production capacity of 198,000 MTPA and having a Rolling Mill (through hot charging) having a capacity of 195,000 MTPA and main products are steel Ingots and MS billets

The permitted land of the factory is 10.417 hectares / 25.8 acres and company has developed green belt in an area around 8.514 acres / 3.45 hectares of land which is around 33% of total factory area.

The environment clearance and permission granted by CECB Raipur and also direction received from the regional office from time to time requires that plantation should be done by the industrial units within plant premises and nearby areas with local species covering 33% or 1/3rd of area. The green belt helps to capture the fugitive emission and attenuate the noise apart from improving the aesthetics of the region. Trees are also helpful in improving ecological condition as well as bio diversity status of the area. Of total project area 10.417 hectares / 25.8 acres, 33% area i.e. around 8.514 acres / 3.45 hectares is covered as green belt within the plant premises.

Physical verification and evaluation work has been done by our team in terms of number, girth of trees, height and survival percentage density and quality of plantation on 1st week of September 2025.

INTRODUCTION

M/s Shambhavi Ispat Pvt. Ltd. located at Vill -Gerwani, Tah & Distt Raigarh (C.G.) The company is having fifteen ton Induction Furnaces with a production capacity of 198,000 MTPA and having a Rolling Mill (through hot charging) having a capacity of 195,000 MTPA and main products are Steel Ingots and MS billets

S. No.	Products	Capacity
01	Induction Furnace (4*15 T) (MS Billets/ Steel Ingots)	1,98,000 MTPA
	Rolling Mill (Through hot Charging)	1,95,000 MTPA

Area Statement:

Total plant Area : - 10.417 hectares / 25.8 Acres

Existing Green Belt Area : - 3.45 hectares / 8.514 acres

Plantation Sites: -

1. Near crusher
2. Near main gate
3. Near store
4. Around the garden
5. Near admin office
6. Near tower
7. Near sub station
8. Near furnace
9. Around the boundary wall
10. Near parking area
11. Near weigh bridge

Need of Green Belt

Greenbelts are an effective mode of pollution and forming a sink of pollutants. Leaves with their vast area in a tree crown, sorbs pollutants on their surface, thus effectively reduce pollutants concentration in the ambient air, often the absorbed pollutants are incorporated in the metabolic pathway and the air is purified. Plant grown to function as pollution sink are collectively referred as green belts. An important aspect of a greenbelt is that the plants are living organisms with their varied tolerance limit towards the air pollutants. A green belt is effective as a pollutants sink only within the tolerance limit of constituent plants. Planting few, known pollutant sensitive species along with the tolerant species within a green belt however, do carry out an important function of indicator species.

Apart from function as pollution sink, green belt would provide the benefit like aesthetic improvement of the area and providing suitable habitats for animal and birds

Choosing Plants for Green Belts: - The main limitations for plants to function as scavenger of pollutants are plant interaction to air pollutants, sensitivity to pollutants, climate condition and soil characteristics. While making choice of plant species for cultivation in greenbelts. Due consideration has to be given to the natural factors of bioclimate, Xerophytes plants are not necessary good for greenbelts they with their sunken stomata can with stand pollution by avoidance but are poor absorber of pollutants.

Character of plants mainly considered for affecting absorption of pollutants gases and removal of dust particles are as follows.

For Absorption of Gases: -

1. Tolerance towards pollutants in question, of concentration that are not high to be instantaneously lethal.
2. Longer duration of foliage.
3. Freely exposed foliage.
4. Adequate height of crown.
5. Openness of foliage in canopy.
6. Big leaves (long and broad laminar surface).
7. Large number of stomatal apertures.

For removal of suspended particulate matter: -

1. Height and spread of crown.
2. Leaves supported on firm petiole.
3. Abundance of surface on bark and foliage.
4. Roughness of bark.
5. Abundance of axillary hairs.
6. Hairs of scales on laminar surface

MoEFCC (Ministry of Environment Forest and Climate Change) guidelines regarding green belt for industries –

The environmental factors related to green belt with economic, social consideration are given below

Land acquired shall be sufficiently large to provide space for appropriate treatment of waste water, the treated waste water left after maximum possible reuse and recycle should be used to raise green belt and to create water body for aesthetic, recreation and if possible for agriculture.

No forest land shall be converted into non forest activity for the sustenance or the industries.

The green belt between to adjoining large scale industries shall be 1km.

The green belt shall be 500 meters wide around the boundary limit of industry, for industry having odour problem it shall be 1 km wide.

In some environmental clearance issued for various types of projects by concerned regulatory authorities of central and state level, conditions reflected to green belt development of industrial projects mention that green belts of adequate width and density shall be provided 38% area to mitigate the effects of fugitive emission all around the plant with local species in consultation with the DFO as per the CPB guidelines.

Development of green belt consisting of three tier along the periphery of the project with native species is most important. Guideline for any type of industry, green vegetation is beneficial many ways leading to conservation of biodiversity, retention of soil moisture, recharge of ground water and maintaining pleasant climate of the area. Providing possible habitat for birds and animal. Green belt minimizes the builds up pollution level in urban/industrial areas by acting as pollution sinks. The three tier green belt will absorb pollutant release from industrial activity into atmosphere helps in effective pollution control. The main advantages of green belt in and around the industry are to control air and noise pollution. Trees helps in trapping particulate matter, removing CO_2 and other pollutants from air and by release O_2 into the air there by improving the air quality. Green belt reduce the intensity or should be reflect, refract or by absorb sound, if will function as barrier between industry and neighbourhood. The intensity reduction depends on the distance sound has to travel from source and width as the green belt.

Green belt also helps in soil erosion control through improvement of soil, quality and binding soil particles. It also contain water run offs and improve ground water infiltration and improving ground water recharge capacity. The green belt species should be selected based on the type/category of the industry and climatic conditions. Setting trees around and industry may not serve the purpose of green belt without considering the above elements.

Physical Verification and Evaluation of Green Belt

For assessing the quality and quantity of green belt developed by **M/s Shambhavi Ispat Pvt. Ltd.** Our team visited the site on 1st week of September 2025 and conduct all the necessary procedure to evaluate the green belt.

Tree Enumeration – Counting of all the trees and saplings carried out by direct field observation casualties were also recorded to calculate the survival percentage.

Assessment of Health of Plantation – Generally health of plantation is assessed by measuring height and grith of trees. Height is measuring approximately and grith is measuring on following basis

HEALTH	GIRTH
1.Upto 3year old tree	Girth is measuring 50 cm above the ground level
2.Upto 5year old trees	100 cm above the ground level
3.Older than 5 year	150 above the ground level

Survival percentage – The survival percentage of plantation is calculated on the basis of the formula i.e.

$$\frac{\text{No. of living plants}}{\text{Total no. of plant planted}} \times 100$$

Density - $\frac{\text{No of trees}}{\text{Area}}$

Grading of Plantation: -

A. Grading of project plantation on scale of 1 to 10

Qualitative	Survival	8.00
	Health of plantation	8.50
	Maintenance	7.50
	Sustainability	7.75

B. Grading of project plantation on scale of 1 to 10

Overall grading of plantation	Excellent	Very good	Good	Poor
	(8<10)	(5<8)	(3-5)	(>3)
		8.00		

Suggestion for Improvement

1. It is advice to adopt some fruit bearing and broad leaf trees.
2. Dust deposited in the leaves should be removed by washing the plants regularly.
3. Plant should be planted after one year age, Minimum 3' to 4' height.
4. Space between plants 2mx2m, 3mx3m and maximum 4mx4m according to maximum girth of trees after maturity.
5. Given priority to broader leaves plants.
6. Species – fast growing Species to be planted
7. Manure – Cow dung compost, Vermi compost for good edge
 Urea, DAP, Enzyme can be used.

M/s Shambhavi Ispat Pvt. Ltd.
PLANTATION EVALUATION & MONITORING REPORT

Enumeration Details of Tree Plantation in Premises of

M/s Shambhavi Ispat Pvt. Ltd.

Vill -Gerwani, Tah & Distt Raigarh (C.G.)

Year – 2025

1. Total area of the factory :- 10.417 Hectares / 25.8Acres
2. Total Green belt area :- 3.45 Hectares / 8.514 Acres
3. Total No. of Living Plants :- 8,467 Numbers
4. Survival percentage :- 85%
5. Site suitability :- Medium
6. Density :- 994 Trees / Acres

S.no.	Name of plant	Girth Class In CM			Total No. of plants
		0-20	21-40	41-60	
01	Peltaphorum	1,193	65	18	1,276
02	Neem	492	00	00	492
03	Gulmohar	2,092	88	12	2,192
04	Jamun	441	35	00	476
05	Cassia siamia	1,827	32	38	1,897
06	Ashoka	600	00	00	600
07	Karanj	679	00	00	679
08	Guava	345	00	00	345
09	Mango	383	00	06	389
10	Kathal	76	00	00	76
11	Palm	27	00	18	45
	Total	8,155	220	92	8,467

Arif Ali
Arif Ali
Retd. DY. C.F. (SFS)
Consultant Env. & Forest
Raipur (C.G.)



ARIF ALI

Consultant Environment and Forest

K-6 Anupam Nagar Raipur Chhattisgarh (492001)

Ref. No: - RPR/114/2025

Date: - 09.09.2025

CERTIFICATE

Name of Industry:

M/s Shambhavi Ispat Pvt. Ltd.

Location: Vill -Gerwani, Tah & Distt Raigarh (C.G.)

1. Total Area of the Factory:

- 10.417 hectares (25.8 acres)

2. Green Belt Development Details:

- **Area under Green Belt:** 8.514 acres
- **Percentage of Total Area:** Approximately 33%
- **Total Number of Live Trees:** 8,467
- **Plantation Density:** 994 trees per Acres
- **Location of Green Belt:** Inside the plant premises

3. Compliance Status:

- The green belt developed by the company has been reviewed.
- It has been found to be **satisfactory** and in **full compliance** with the prescribed **environmental norms and guidelines**.

Place: Raipur (C.G.)

11-9-2025
Arif Ali
Retd. DY. C.F. (SFS)
Consultant Env. & Forest
Raipur (C.G.)

Plantation Photographs



M/s Shambhavi Ispat Pvt. Ltd.

PLANTATION EVALUATION & MONITORING REPORT

Plantation Photographs





Bhoomi Envirotech Pvt. Ltd.

D-1, Sector-3, Priyadarshini Nagar,
Behind Vijeta Complex, Raipur-492006
Email- info.bhoomienvirotech@gmail.com
Web Site: www.bhoomienvirotech.co.in



TC-13412

Format No. - BEPL/QF/7.8/04

TEST REPORT

ULR	TC	1	3	4	1	2	2	5	0	0	0	0	0	1	4	4	4	F
Report No.: BEPLTR20251021ST005										Date of Issue: 21.10.2025								
Name and Address of Customer*		Shambhavi Ispat, Village - Gerwani , Tehsil & Dist- Raigarh (C.G.)																
Lab Sample ID.	BEPL/ST/2025101601/005								Customer Sample ID*		ST-01							
Sample Description*	Stack								Sampling Done By		BEPL Staff							
Sampling Location*	SMS Division								Date of Sampling		15.10.2025							
Environment Condition During Teating	Temp. (°C) - 24.9°C								Environment Condition During Sampling		Temp. (°C)							
	Humidity (% RH) - 52 %										Min.- 24°C Max.- 31°C							
											Humidity (% RH)							
											Min.- 56 % Max.- 88 %							
Sample Quantity Received	PM (Thimble. x 01 Nos.), SO ₂ x 02 PVC Bottle , NO _x as NO ₂ x 01 Nos.																	
Sampling Method	As Per CPCB Guideline (LATS/80/2013-2014)																	
Date of Sample Received	16.10.2025								Analysis Duration		16.10.2025 to 17.10.2025							

ANALYSIS RESULT

Stack Attached to : Induction Furnace
Type of fuel used : Electrically operated
Stack height above the ground : 40 mtr.
Stack Inner dia at Port Hole : 1.2 mtr
Material of construction : MS
Time of Sampling (in Minute) : 36 Minute
Attached APCS : Bag Filter
Ambient Temperature : 31°C
Flue Gas Temperature : 67°C
Velocity of Flue Gas : 7.5 m/s
Volume of Flue Gas Flow Rate : 26653.2 Nm³/hr

Sr. No	Parameter	Unit	Result	Limits as per Consent	Test Method
1	Particulate Matter (PM)	mg/Nm ³	12.86	30	IS 11255 (P-1), RA 2019
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	5.57	--	IS 11255 (P-2), RA 2019
3	Oxides of Nitrogen (NO _x as NO ₂)	mg/Nm ³	10.26	--	IS 11255 (P-7), RA 2022

Note:

- The results given above are related to the tested sample, as received & mentioned parameters.
- The customer asked for the above tests only.
- When the information is supplied by the customer these can affect the validity of results.
- Asterisk mark(*) provided by the customer
- This test report shall not be reproduced without the permission of Bhoomi Envirotech Pvt. Ltd. (BEPL)
- The test report will not be used for any publicity/legal purpose.
- Responsibility of the BEPL is limited to the invoiced amount only.



21/10/25
(Ritesh Kurhade)
Reviewed By



For, Bhoomi Envirotech Pvt. Ltd.

M. Singh
21-10-25
(Meman Kumar Sinha)
Authorized Signatory

End of test report.



Bhoomi Envirotech Pvt. Ltd.

D-1, Sector-3, Priyadarshini Nagar,
Behind Vijeta Complex, Raipur-492006
Email- info.bhoomienvirotech@gmail.com
Web Site: www.bhoomienvirotech.co.in

ANNEXURE-4



TC-13412

Format No. - BEPL/QF/7.8/02

TEST REPORT

ULR	TC	1	3	4	1	2	2	5	0	0	0	0	0	1	4	4	0	F		
Report No.: BEPLTR20251021AAQ001										Date of Issue: 21.10.2025										
Name and Address of Customer*		Shambhavi Ispat, Village - Gerwani , Tehsil & Dist- Raigarh (C.G.)																		
Lab Sample ID.	BEPL/AAQ/2025101601/001										Customer Sample ID*	AAQ-01								
Sample Description*	Ambient Air Sample										Sampling Done By	BEPL Staff								
Sampling Location*	Near Admin Office										Date of Sampling	15.10.2025								
Sampling Method	As Per CPCB Guideline (Vol.1)										Duration of Sampling	24 hr.								
Environment Condition During Testing	Temp. (°C) - 24.9°C Humidity (% RH) - 52 %										Environment Condition During Sampling		Temp. (°C)							
													Min.- 24°C				Max.- 31°C			
													Humidity (% RH)							
													Min.- 56 %				Max.- 88 %			
Sample Quantity Received	PM10 (F.P. x 03 Nos.), PM 2.5 (F.P. x 01 Nos.), SO2 x 01 PVC Bottle , NO2 x 01 PVC Bottle,																			
Date of Sample Received	16.10.2025										Analysis Duration	16.10.2025 to 17.10.2025								

ANALYSIS RESULT

Sr. No.	Parameter	Unit	Result	Limit (As per NAAQS)	Method Reference
1	Particulate Matter (PM ₁₀)	µg/m ³	67.46	100	IS 5182 (P-23) RA 2022
2	Particulate Matter (PM _{2.5})	µg/m ³	30.90	60	IS 5182 (P-24) RA 2024
3	Sulphur Dioxide (SO ₂)	µg/m ³	10.09	80	IS 5182 (P-2/Sec 1) RA 2023
4	Nitrogen Dioxide (NO ₂)	µg/m ³	17.26	80	IS 5182 (P-6) RA 2022

Note:

- The results given above are related to the tested sample, as received & mentioned parameters.
- The customer asked for the above tests only.
- When the information is supplied by the customer these can affect the validity of results.
- Asterisk mark(*) provided by the customer
- This test report shall not be reproduced without the permission of Bhoomi Envirotech Pvt. Ltd. (BEPL)
- The test report will not be used for any publicity/legal purpose.
- Responsibility of the BEPL is limited to the invoiced amount only



1-4
21/10/25
(Ritesh Kurhade)
Reviewed By



For, Bhoomi Envirotech Pvt. Ltd.

MSinhg
21-10-25
(Meman Kumar Sinha)
Authorized Signatory

.....End of test report.....



Bhoomi Envirotech Pvt. Ltd.

D-1, Sector-3, Priyadarshini Nagar,
Behind Vijeta Complex, Raipur-492006
Email- info.bhoomienvirotech@gmail.com
Web Site: www.bhoomienvirotech.co.in



TC-13412

Format No. - BEPL/QF/7.8/02

TEST REPORT

ULR	TC	1	3	4	1	2	2	5	0	0	0	0	0	1	4	4	1	F	
Report No.: BEPLTR20251021AAQ002										Date of Issue: 21.10.2025									
Name and Address of Customer*	Shambhavi Ispat, Village - Gerwani , Tehsil & Dist- Raigarh (C.G.)																		
Lab Sample ID.	BEPL/AAQ/2025101601/002								Customer Sample ID*				AAQ-02						
Sample Description*	Ambient Air Sample								Sampling Done By				BEPL Staff						
Sampling Location*	Near Main Gate								Date of Sampling				15.10.2025						
Sampling Method	As Per CPCB Guideline (Vol.1)								Duration of Sampling				24 hr.						
Environment Condition During Testing	Temp. (°C) - 24.9°C Humidity (% RH) - 52 %								Environment Condition During Sampling				Temp. (°C)						
													Min.- 24°C			Max.- 31°C			
													Humidity (% RH)						
													Min.- 56 %			Max.- 88 %			
Sample Quantity Received	PM10 (F.P. x 03 Nos.), PM 2.5 (F.P. x 01 Nos.), SO2 x 01 PVC Bottle , NO2 x 01 PVC Bottle,																		
Date of Sample Received	16.10.2025								Analysis Duration				16.10.2025 to 17.10.2025						

ANALYSIS RESULT

Sr. No.	Parameter	Unit	Result	Limit (As per NAAQS)	Method Reference
1	Particulate Matter (PM ₁₀)	µg/m ³	79.94	100	IS 5182 (P-23) RA 2022
2	Particulate Matter (PM _{2.5})	µg/m ³	37.55	60	IS 5182 (P-24) RA 2024
3	Sulphur Dioxide (SO ₂)	µg/m ³	14.74	80	IS 5182 (P-2/Sec 1) RA 2023
4	Nitrogen Dioxide (NO ₂)	µg/m ³	24.16	80	IS 5182 (P-6) RA 2022

Note:

- The results given above are related to the tested sample, as received & mentioned parameters.
- The customer asked for the above tests only.
- When the information is supplied by the customer these can affect the validity of results.
- Asterisk mark(*) provided by the customer
- This test report shall not be reproduced without the permission of Bhoomi Envirotech Pvt. Ltd. (BEPL)
- The test report will not be used for any publicity/legal purpose.
- Responsibility of the BEPL is limited to the invoiced amount only



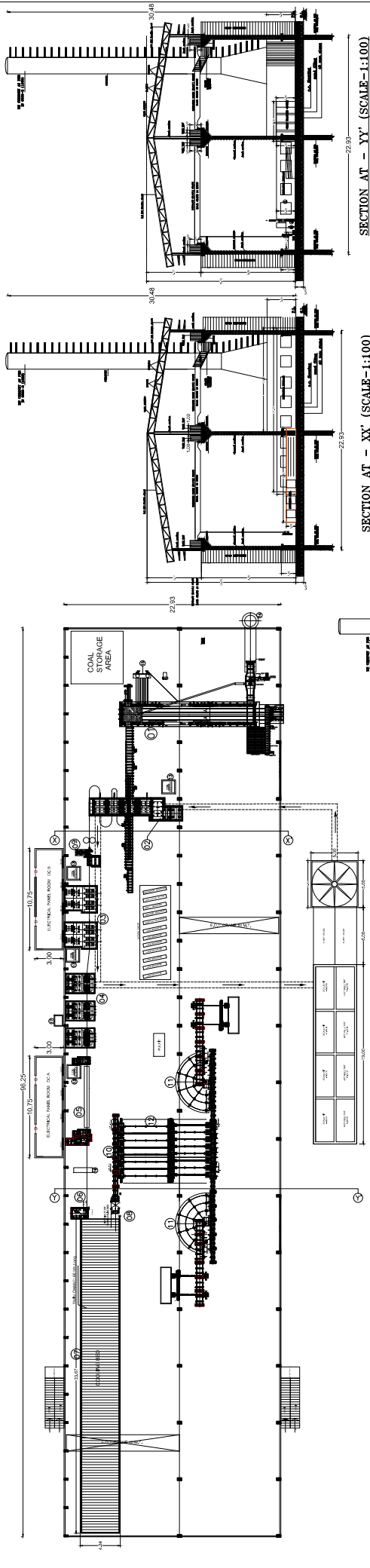
Ritesh Kurhade
(Ritesh Kurhade)
Reviewed By



For, Bhoomi Envirotech Pvt. Ltd.

M. Singh
21-10-25
(Meman Kumar Sinha)
Authorized Signatory

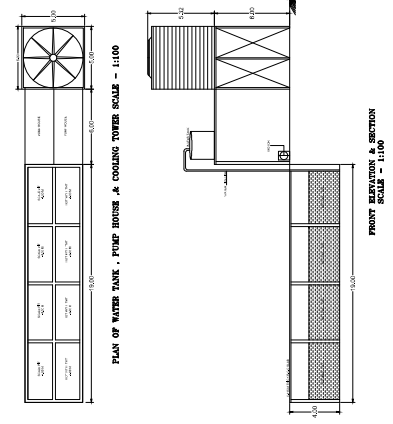
.....End of test report.....



SECTION AT - XX' (SCALE-1:100)

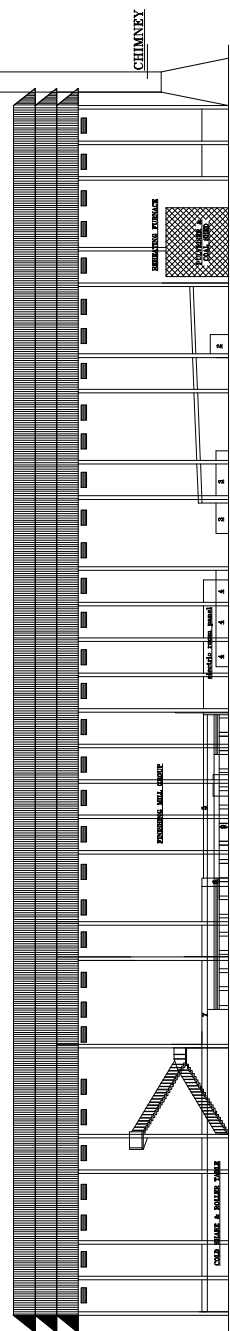
SECTION AT - YY' (SCALE-1:100)

PLANT SHED (SCALE-1:100)



PLAN OF WATER TANK, PUMP HOUSE & COOLING TOWER SCALE - 1:100

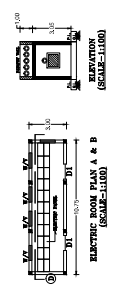
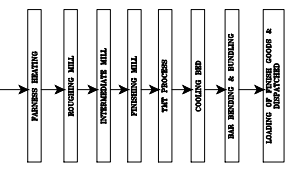
FRONT ELEVATION & SECTION SCALE - 1:100



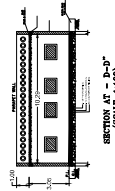
ELEVATION (SCALE-1:100)

PROCESS FLOW CHART

RAW MATERIAL RECEIVING & FEEDING



ELECTRIC ROOM PLAN A & B (SCALE-1:100)



SECTION AT - D-D' (SCALE-1:100)

- LEGEND**
- ① REHEATING FURNACE - 22.45THP; ELECTRIC
 - ② CHARGING BED & ROLLER TABLE
 - ③ AC. MOTOR 1500 H.P. x 740 RPM - 01 Nos.
 - ④ FLYWHEEL 67 MT. 1500 RPM
 - ⑤ 460 mm PCD - 34 PINION STAND
 - ⑥ 460 - 2H MILL STAND (FIBRE BRG.) - 1 No.
 - ⑦ 460 - 2H MILL STAND (FIBRE BRG.) - 1 No.
 - ⑧ D.C. MOTOR 300 & N/A x 6700-1500 RPM < 4 Nos.
 - ⑨ RED. GEAR BOX CUM PINION STAND 330 mm PCD
 - ⑩ 330 mm PCD - 2H MILL STAND - 4 Nos.
 - ⑪ NO. CHIMNEY
 - ⑫ FINISHING MILL GROUP - D.C. MOTOR 300 K.W. (0-1000-1800 RPM) 6 Nos.
 - ⑬ CROSS OVER
 - ⑭ SCALE PIT
 - ⑮ COAL PULVERIZER

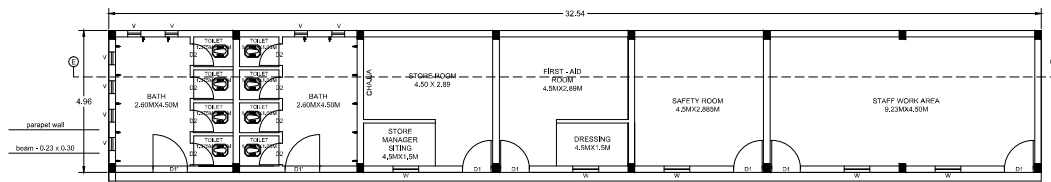
- ⑯ COAL PULVERIZER
- ⑰ CROSS OVER
- ⑱ SCALE PIT

ENGINEER SIGNATURE

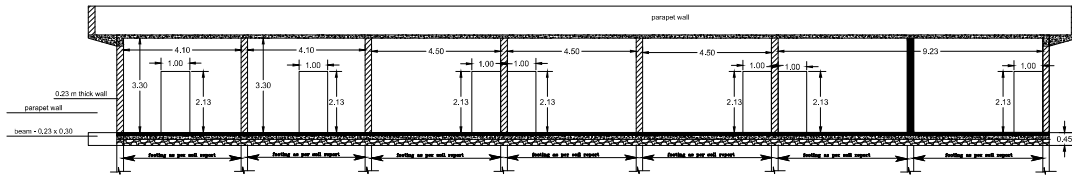
ORIENTATION

AS PER SITE PLAN

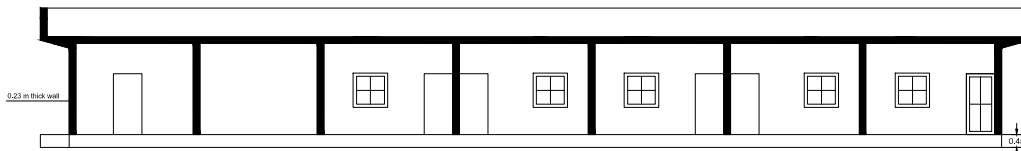
SANTOSH Agrawal
 Digitally signed by SANTOSH AGRAWAL
 Date: 2021.07.05 11:09:26 +05'30'



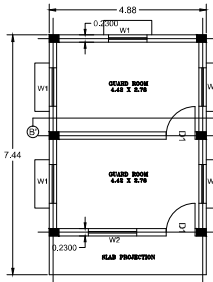
STORE & SAFETY
(SCALE-1:100)



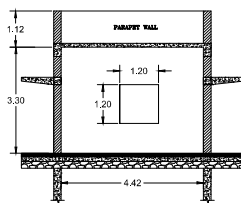
SECTION AT - EE'
(SCALE-1:100)



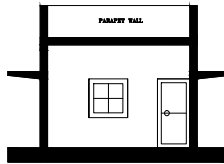
FRONT ELEVATION
(SCALE-1:100)



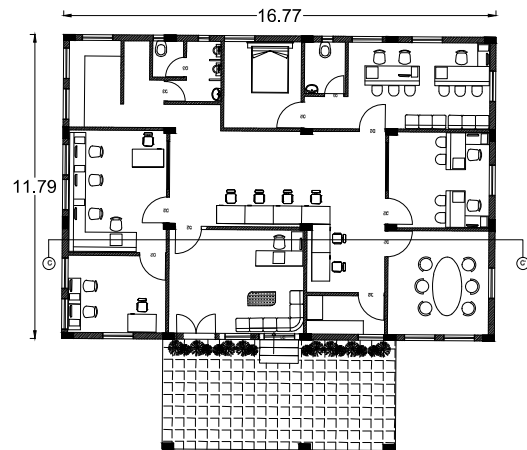
GUARD ROOM PLAN
(SCALE-1:100)



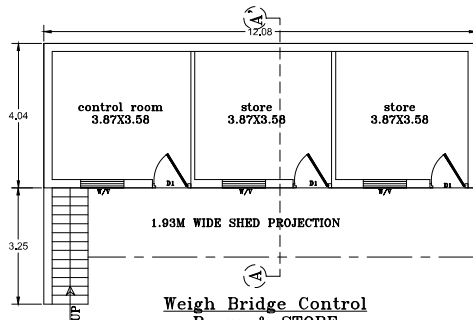
SECTION AT - BB'
(SCALE-1:100)



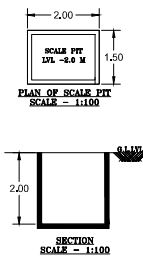
FRONT ELEVATION
(SCALE-1:100)



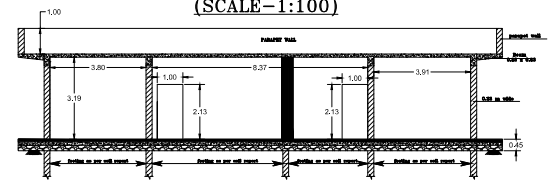
PLAN
(SCALE-1:100)



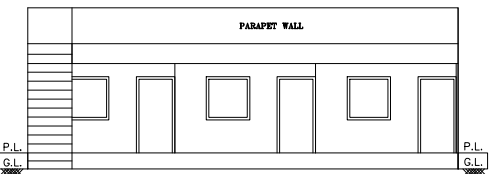
Weigh Bridge Control Room & STORE
(SCALE-1:100)



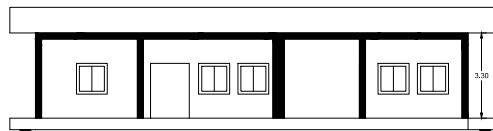
SECTION AT - A-A'
(SCALE-1:100)



SECTION AT - CC'
(SCALE-1:100)



ELEVATION
(SCALE-1:100)



FRONT ELEVATION
(SCALE-1:100)

SANTOSH AGRAWAL

Digitally signed by
SANTOSH AGRAWAL
Date: 2021.07.05
11:10:33 +05'30'

DRAWING OF ROILING MILL INDUSTRIAL UNIT
PLAN FOR-

M/S SHAMBHAVI ISPAT

PARTNER -

1. AMIT AGRAWAL
2. PAWAN AGRAWAL
3. SANTOSH AGRAWAL
4. ANIL AGRAWAL
5. SHYAM AGRAWAL

VILLAGE AT - GERWANI ,
TEHS. - GHAGHODA , DISTRICT - RAIGARH (C.G.)

PLANNING AREA ON KHASRA

S.NO.	KH.NO.	HECT.	SQ.M.
1.	32/1	1.920	19200.00
2.	32/2	1.660	16600.00
TOTAL		3.58	35800.00

AREA STATEMENT - COVERAGE

S.NO.	DESCRIPTION	AREA IN SQ.M.	AREA IN SQ.FT.
1	TOTAL PLOT AREA	35800.00	385547.99
2	PLANT SHED	2205.96	23744.76
3	ADMIN & OFFICE	197.21	2122.75
4	GUARD ROOM	48.77	524.96
5	SAFETY - STORE - FIRST-AID	161.39	1737.19
6	WEIGH BRIDGE CONTROL ROOM & STORE	48.8000	525.28
7	ELECTRIC PANEL ROOM (E.C.)	64.5000	694.27
8	TOTAL CONSTRUCTION AREA	2726.63	29349.20
9	PERCENTAGE OF COVERAGE	7.6163	81.98
10	OPEN AREA	92.3837	994.41

ENGINEER SIGNATURE



Office add: +1 V, Tower Road Bt Front,
Chakrabarti Colony, Raigarh (C.G.) (696001)
902964999, 902967071, 902961071
santosh14114@gmail.com
santosh14114@gmail.com

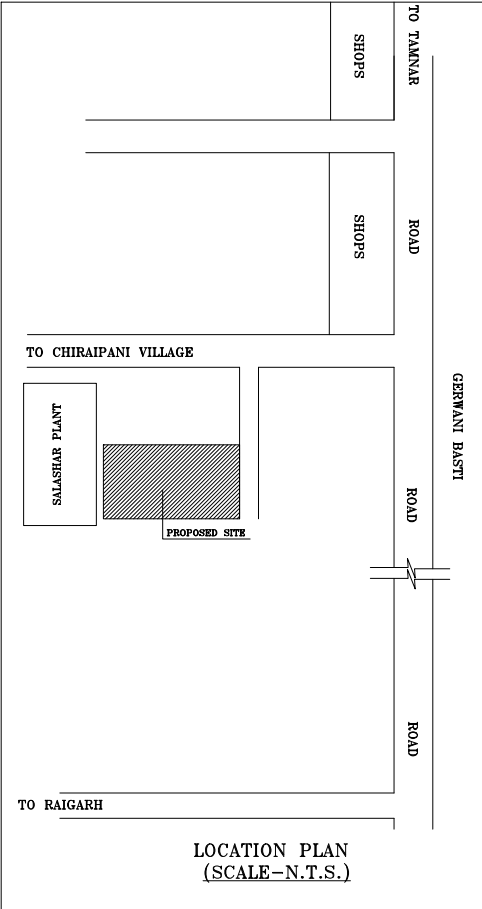
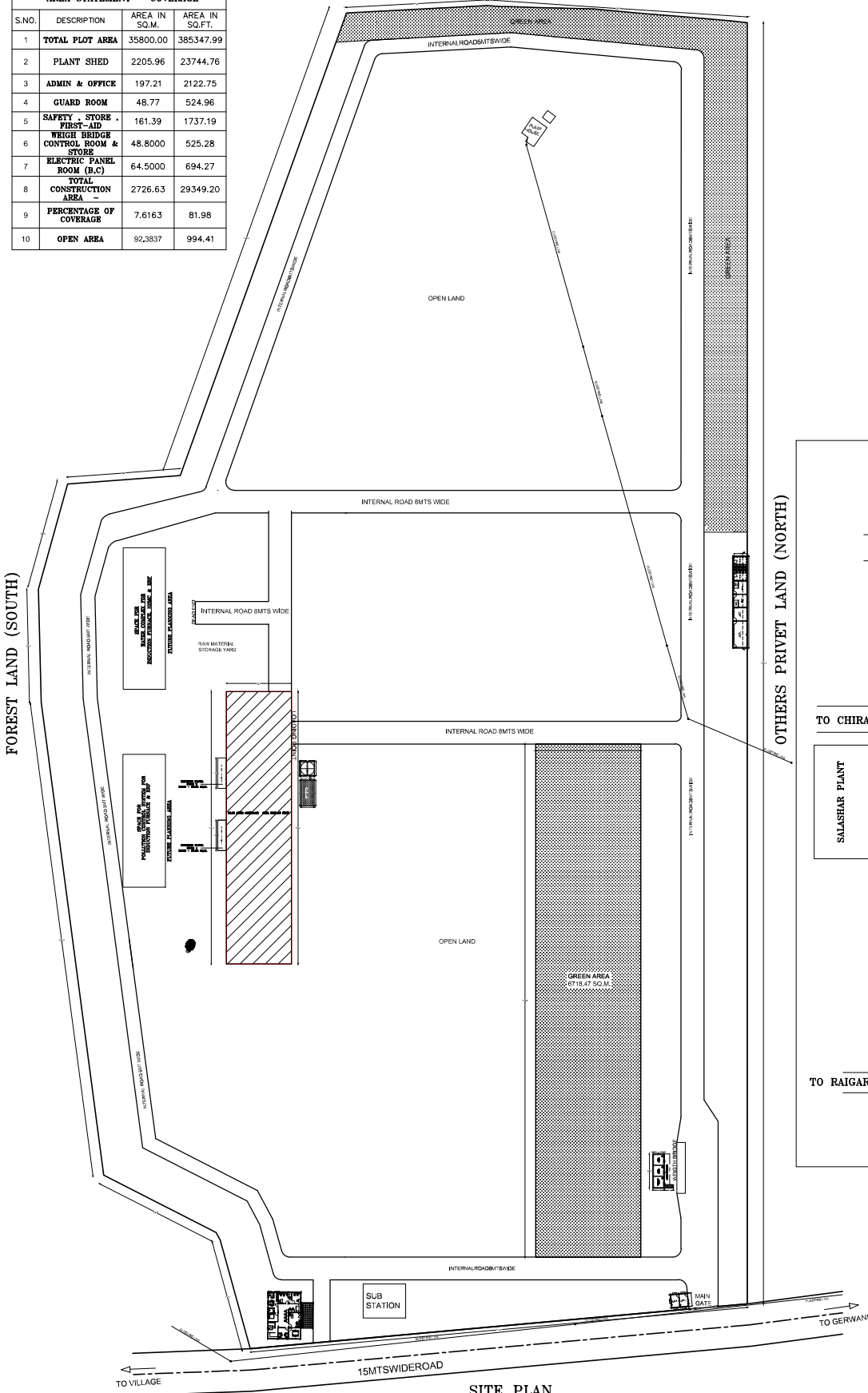
ORIENTATION



AS PER SITE PLAN

AREA STATEMENT - COVERAGE			
S.NO.	DESCRIPTION	AREA IN SQ.M.	AREA IN SQ.FT.
1	TOTAL PLOT AREA	35800.00	385347.99
2	PLANT SHED	2205.96	23744.76
3	ADMIN & OFFICE	197.21	2122.75
4	GUARD ROOM	48.77	524.96
5	SAFETY STORE FIRST-AID	161.39	1737.19
6	WEIGH BRIDGE CONTROL ROOM & STORE	48.8000	525.28
7	ELECTRIC PANEL ROOM (E.P.R)	64.5000	694.27
8	TOTAL CONSTRUCTION AREA	2726.63	29349.20
9	PERCENTAGE OF COVERAGE	7.6163	81.98
10	OPEN AREA	92.3837	994.41

SALASHAR PLANT (WEST)



Alex V. F. Paul
Menon.V

Digitally signed by Alex V. F. Paul Menon.V
Date: 2021.08.03 16:00:09 +05'30'

SITE PLAN
(SCALE-1:500)

DRAWING OF ROILING MILL INDUSTRIAL UNIT
PLAN FOR-

M/S SHAMBHAVI ISPAT

PARTNER -

- AMIT AGRAWAL
- PAWAN AGRAWAL
- SANTOSH AGRAWAL
- ANIL AGRAWAL
- SHYAM AGRAWAL

VILLAGE AT - GERWANI ,
TEHS. - GHAGHODA , DISTRICT - RAIGARH (C.G.)

OWNER SIGNATURE

SANTOSH AGRAWAL

Digitally signed by SANTOSH AGRAWAL
Date: 2021.07.05 11:11:14 +05'30'

ENGINEER SIGNATURE

Alex V. F. Paul
Menon.V

Digitally signed by Alex V. F. Paul Menon.V
Date: 2021.08.03 16:00:09 +05'30'

ORIENTATION

AS PER SITE PLAN

PLANNING AREA ON KHASRA			
S.NO.	KH.NO.	HECT.	SQ.M.
1.	32/1	1.920	19200.00
2.	32/2	1.660	16600.00
TOTAL		3.58	35800.00

Log on to -
"santosh14menon.blogspot.com"
for more plans & designs.

Office add - E-1, Tower Road, Front
Of S-14, colony Raigarh c.p. (906001)
8106446219 , 7000819073 , 8106113121

santosh14@gmail.com
menon.v.santosh14@gmail.com

ON SITE EMERGENCY PLAN 2025

Presented by

M/s SHAMBHAVI ISPAT PRIVATE LIMITED

Village – Gerwani, Block – Raigarh, Distt. – Raigarh (C.G.)

Name & Address Occupier

Samresh Kumar (M.D.)

Goh, Dhodhi, Belabarish,

Aurangabad (Bihar) - 824203

Mobile No. +91 99389-53704

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil – Raigarh, Distt. – Raigarh (C.G.)

INDEX

S.No.	Description	Page No.
1	COVER PAGE	01
2	INDEX	02
3	FOREWARD, NAME & ADDRESS OF OCCUPIER	03
4	SALIENT FEATURES	04
5	INTRODUCTION OF PLANT LOCATION LAYOUT	05 - 06
6	KEY PLAN, MAP SHOWING E.C.C., ASSEMBLY POINT & DANGEROUS AREA, FLOW CHART	07
7	OBJECTIVE OF ON SITE PLAN	08
8	MANUFACTURING PROCESS M.S. BILLETS	09
9	PROCESS FLOW CHARTS	10
10	FIRE HAZARDOUS SUBSTANCES	11
11	RISK ANALYSIS AND POSSIBLE HAZARDS	12 - 14
	IMMEDIATE ACTION TO BE TAKEN IN CASE OF MISHAP IN LABORATORY	15
	PRECAUTION TO BE OBSERVED AT JOBS AT HEIGHT	16
	FIRE HAZARDS AND PREVENTION	17
	SAFE USE OF ELECTRICITY	18 - 20
12	EMERGENCY CONTROL CENTER	21 - 23
13	ASSEMBLY POINT	24
14	EMERGENCY ACTION PLAN SET-UP CHART	25 - 27
15	ACTION PLAN	28 - 30
16	POST EMERGENCY OPERATION	31
17	EMERGENCY CREWS	32
18	RESPONSIBILITIES OF THE EMERGENCY CREWS	33
19	ROLL CALL SYSTEM OTHER / ACTION PLAN	34 - 37
20	MOCK DRILL, REHARSAL TRAINING SCHEDULED	38 - 40
21	MUTUAL AID PROGRAM	41
22	MEDICAL FACILITIES AT NEAR SITE	42
23	HOSPITALISATION FACILITIES NEAR SITE	43
24	LIST OF IMPORTANT STATE/ LOCAL AUTHORITY	44
25	VERIFICATION	45
26	M.S.D.S	46-54

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

FOREWARD, NAME & ADDRESS OF OCCUPIER

On-site Emergency plan of **M/s SAMBHAVI ISPAT PRIVATE LIMITED** Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.) in a book form is released herewith for all employees concerning with handling of the Emergency if arises any, due to reasons whatsoever, related to operations, maintenance and functioning of the plant.

The plan is a statutory requirement under the Indian factories act 1948 with an intention to arrange and gear – up the facilities to combat the emergency if any, in an effective way to ensure minimum possible loss to the human beings and to the properties involved and to make the situation in order within minimum possible time period.

As such, I request all employees to actively participate in the action plan of On-site Emergency plan as per role given to them. To make ourselves operational at any stage of emergency.

Sign. Of Occupier

Name & Address Occupier

Samresh Kumar (M.D.)

Goh, Dhodhi, Belabarish,
Aurangabad (Bihar) - 824203
Mobile No. +91 99389-53704

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

SALIENT FEATURES

1.1 Name of Occupier/Director

S.No.	Name of Members	Address	Mobile No.
1	Samresh Kumar (M.D.)	Goh, Dhodhi, Belabarish, Aurangabad (Bihar) 824203	+91 99389-53704
2	Amit Kumar Agrawal (Director)	Gandhiganj, Near Railway Station, Raigarh (C.G.)	+91 97550-34298
3	Anil Kumar Agrawal (Director)	Laltanki, Near Kewdabadi Bus Stand, Raigarh (C.G.)	+91 94252-50093
4	Pawan Kumar Agrawal (Director)	Laltanki, Near Kewdabadi Bus Stand, Raigarh (C.G.)	+91 99932-91414
5	Santosh Agrawal (Director)	Park City, Kabir Chowk, Raigarh (C.G.)	+91 93002-55000
6	Shyamlal Agrawal (Director)	Dhimrapur Chowk, Raigarh(C.G.)	+91 99811-70665

- | | | |
|-----|----------------------------|-------------------------------|
| 1.2 | D.I.C. Regd. No. | 11302025084705 |
| 1.3 | Factory License No | 58604/2021/2(cb)CG13/381/5513 |
| 1.4 | Connected Load From CSPDCL | 19750 KVA |
| 1.5 | Max No. Of employees | 110 |

S.No.	Name of Product	Production Capacity/ Year
1	Induction Furnace (4x15 T) (MS Billets/Steel Ingots)	1,98,000 TPA
2	Rolling Mill (Through Hot Charging)	1,95,000 TPA

- | | | |
|-----|-------------------|------------------------------------|
| 1.6 | Email | shambhaviispat@gmail.com |
| 1.7 | Pollution Consent | |
| | Air | 9965/TS/CECB/2024 Dated 12/03/2024 |
| | Water | 9965/TS/CECB/2024 Dated 12/03/2024 |

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

INTRODUCTION OF PLANT LOCATION LAYOUT

Developments and advancement in science have made impossible. A few decades back the thoughts and ideas of human being, which were dreams, have now become reality. Man has been continuously conquering over nature. This advancement in science will continue and shall continue to bring more and more comforts and amenities to human being by adding new and unknown dimension to technology. Similarly in Industrial Development man has made tremendous Advancement since the first day of inventing to generate and use FIRE and several other source of energy like: Petrol, Gas, Electricity, Nuclear Fuel has been invented. All these source of Technology Science and Energy on one side brings happiness and comforts, when used properly and wisely, but on the other hand to create agonies and Disasters if misused, mishandled, neglected, indiscriminately used or carelessly used.

In view of the above facts the of **M/s SAMBHAVI ISPAT PRIVATE LIMITED** Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.) is setup for manufacturing of **Ingot/Billet & TMT Bar** on Site Emergency plan on properly studying through the process of manufacturing, types of Raw Materials. Energy required development of human personal, types of plant and machinery and plant location etc. This site emergency plan has been prepared in brief to provide all information.

Regarding dangers, including health hazard and the measures to overcome such Hazards arising from the exposure to or handling of the material or substances in the manufacture, transportation storage and other process, workers engaged in the factory and to the general public living in the vicinity of the factory the safety measures required to be taken in the event of an accident taking place, It is hoped that this emergency plan shall further help to safeguard health.

PLANT LOCATION

The Factory of **M/s SAMBHAVI ISPAT PRIVATE LIMITED** Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.) it is well connected with Raigarh - Ambikapur Road line. The site is not located at densely populated area at the plant is scattered in around 3.58Hect.

HUMAN HABITATION & AMENITIES:

The plant of **M/s SAMBHAVI ISPAT PRIVATE LIMITED** Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.) in about 15 Km away from Raigarh the nearest human habitation is –Village - Pali, Police Station, Petrol Pump, Hospital, Market, and school building is situated Within 8 Km range from factory.

HUMAN HABITATION NEAR PLANT:

S.No	Name of The Village	Population	Distance From Plant
1	Delari	855	0.5 Km.
2	Gerwani	2219	0.8 Km.
3	Taraimal	3951	4.0 Km.
4	Pali	567	2.0 Km.

NEAR HAZARDOUS FACTORY

S.N.	Name of person of Management	Factory Address	Distance from factory	Mobile No.
1	Shri Ajay Singal	M/s SALASAR STEEL AND POWER LIMITED Village – Chiraipani, Tehsil & Distt. – Raigarh (C.G.)	1.00 Km	98933-08272
2	Shri Ashok Agrawal	M/s S.S. STEEL & POWER Village – Pali, Tehsil & Distt. – Raigarh (C.G.)	1.80 Km	91793-74497
3	Uttam Kumar Agrawal	M/s AGROHA STEEL AND POWER PVT. LTD. Village – Pali, Tehsil & Distt. – Raigarh (C.G.)	1.20 Km	98931-23453
4	Sanjeev Kumar Upadhyay (Director)	M/s CHANDRAHASNI ISPAT PVT LTD Village – Gerwani, Tehsil & Distt. – Raigarh (C.G.)	1.20 Km	91747-68383

AMENITIES

1	Petrol Pump	1.0 Km.
2	Market / Local Bazar	0.6 Km.
3	Jindal First Aid Center	8.5 Km.
4	Kirodimal Government Hospital	15.0 Km.
5	Police Station - Punjipathara	10.0 Km.

PLANT LAYOUT

The overall plant layout is divided into two parts viz.

(A) MAIN PLANT AREA.

(B) ADMINISTRATION OFFICE

Since the areas mentioned at (B) above is not engaged with any manufacture process of staking of raw materials and finished products, there is no risk and danger in these areas: Yet, the impact of any emergency, if arises at main plant, may effects these areas. Hence, these areas are also incorporated in the on-site emergency action plan **M/s SAMBHAVI ISPAT PRIVATE LIMITED** Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.) Plant is located at outside the village that is far away from Residential area. Administrative buildings, / offices are closely situated to the main entrance gate of the main plant.

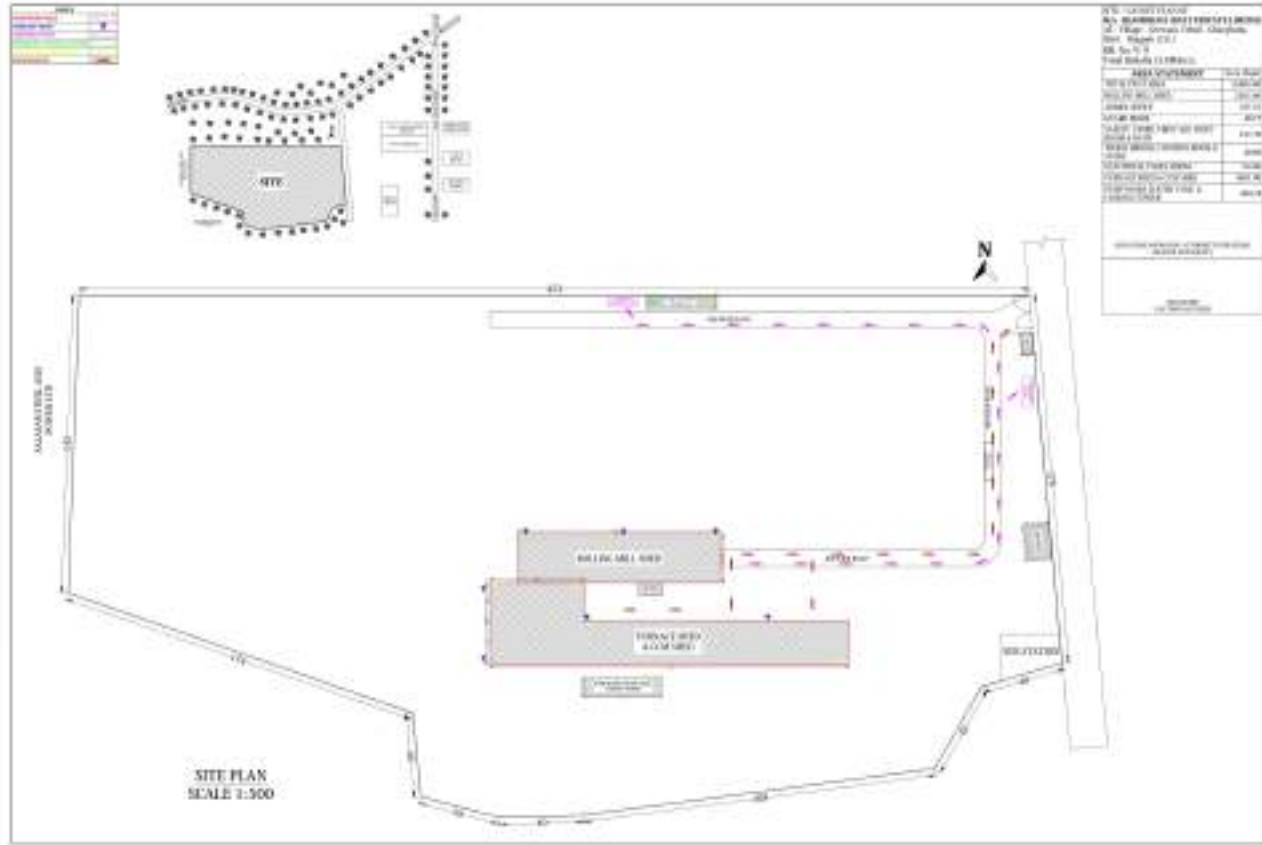
NECESSITY OF ACTION PLAN

EVEN A SINGLE ACCIDENT FAILS ALL WISE PLANNING:

In-spite of several effort to prevent the accidents in an industry, the possibility of occurrence of any accident cannot be ignored, that may result adverse effect on the people, environment and property, considering all aspects of possible hazards and safety precaution to prevent them further planning has been adverse effect may minimize with the help of ON-SITE and OFF-SITE prevalent authorities and public. It is in concept that Emergency planning becomes necessary. This planning is helpful in reducing all kinds of damage and hazard. The Emergency Plan/Action Plan/ Disaster control plan is nothing but an action plan for handling emergencies in an industry. Therefore, we have taken up such planning for this unit.

Key plan/layout plan is enclosed for reference.

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
 Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)



OBJECTIVE OF ON-SITE PLAN

The main objective of involving the Emergency and Disaster Control Plan is, to create a procedure and infrastructure based on the combined resources of the factory as well as the external services, with a view to minimize damage and losses arising out of emergency and disastrous situations in the plant premises, which may directly or indirectly affect the employees, the property of the company and the local community.

The objectives may further be classified as under:

- (a) To identify casualty, damage and, to carry out the rescue operation and the treatment of persons affected by the emergency.
- (b) To safe guard other persons not affected by the emergency so far.
- (c) To keep the damage to the property and to the environment at a minimum level.
- (d) To initially contain the impact of incident and ultimately bring the incident under control.
- (e) To provide authentic information to outsiders and the media.
- (f) To accomplish rehabilitation of the affected persons, if any.
- (g) Preservation of relevant records.
- (h) To investigate in to the causes of emergent situations with a view to prevent its recurrence in future.

MANUFACTURING PROCESS OF MS BILLET/INGOT

Various grade of scrap economically chosen is melted in the crucible of induction melting furnace. The scrap is fed till a molten metal leaves up to the top level is achieved. During scrap melting rust and foreign unwanted residue come into the shape of slag, this is generally called as burning loss of the scrap and is periodically removed.

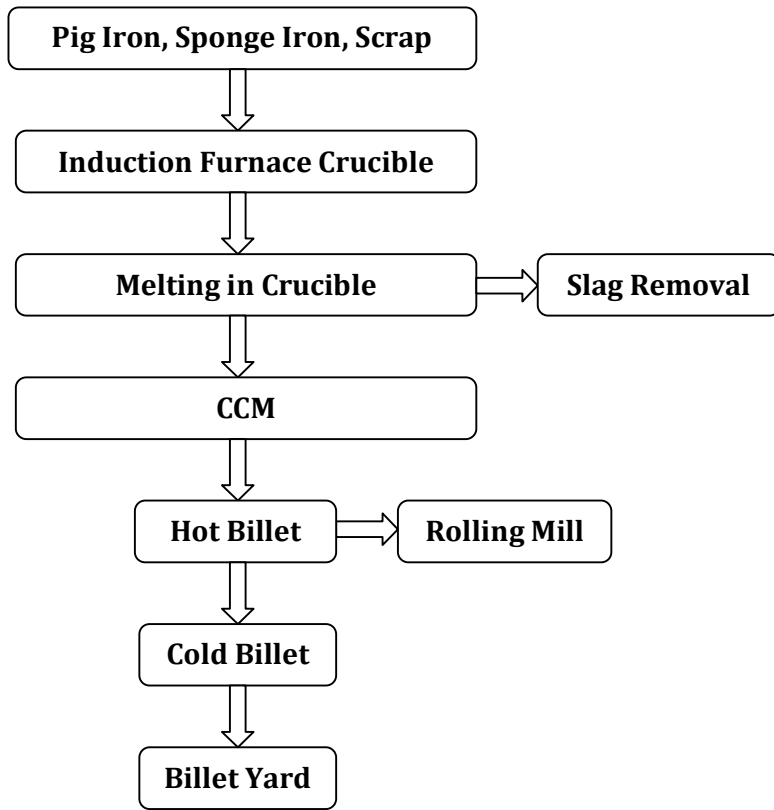
The molten metal's chemical grade is obtained by alternation of scrap qualities. The final elements of the metals are adjusted by addition of Ferro alloys, deoxidizers like ferrosilicon and Aluminium.

The temperature of the molten steel is tested to a maximum of 1650°C and the furnace is tilted to offload the liquid steels into Tundish PLOT. The Tundish PLOT is fixed with refractory nozzles by which the molten steel is sent for casting into steel Billets.

The bottom pouring arrangement consists so a grooved bottom plate in which BP set refractoriness area set. On the late first at centre a central column of cast is fixed with refractory sleeves and funnel. Ingot moulds are set on BP Set in such a manner that the holes of BP sets are kept in centre of the ingots moulds individuals' ingots room.

From Tundish the metal flow is in force into centre column and by bottom pouring it rises through BP sets in to ingots moulds. During the process when ingots are formed and solidify the CI ingots moulds are stripped. The runner and risers are knocked down and ingots is separated and stacked for dispatch to rolling mill.

PROCESS FLOW CHARTS



ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

FIRE HAZARDOUS SUBSTANCE

S.N.	Name of Hazards Chemical	Details of Storage Arrangement				Other security arrangement in leakage condition	Area affected in case of Leakage	P.P.S. To be used.
		M.S.D.S. Enclosed Yes / No	Maximum Storage Capacity	Mode of storage (Stored in Bags, Ground/Underground, Overhead tank its capacity)	Controlling arrangement (Dike valve/Bund valve etc.)			
1	L.P.G. (For General Use)	Yes	20	14.5 Kg Cylinder	Regulator	Gas detector, emergency shut-off valve, water spray, fire extinguisher	Storage shed, nearby working area	Fire-resistant gloves, safety shoes, face shield
	L.P.G (For Commercial use)	Yes	35	19.0 Kg Cylinder	Regulator	Gas detector, emergency shut-off valve, water spray, fire extinguisher	Storage shed, nearby working area	Fire-resistant gloves, safety shoes, face shield
2	Oxygen Cylinders for cuttings	Yes	60	7.0 CUM Cylinder (Separate Open Shed)	Regulator	Valve cap, leak test, no oil/grease, emergency isolation	Storage area, confined spaces	Safety gloves, goggles
3	Diesel (High Speed Diesel)	Yes	300 Litres	200 Litre Drum	Dike Wall	Fire hydrant, foam extinguisher, spill containment	Fuel storage area	Hand gloves, safety shoes

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

RISK ANALYSIS AND POSSIBLE HAZARDS

After studying of process we found the most dangerous points of possible. Fire and other accidents and listed them below in order of their seriousness. Most dangerous part is **Induction Furnace**.

S.N.	Operation process Equipment / areas	Possible hazardous	Precautionary measures	Measure to be taken if hazardous occurs.
1A	Induction Furnace	Fire hazard caused by flames	a. Fire fighting equipments are installed in bay b. Water hose provided Near to the dump & removed. c. No smoking zone declared d. Furnace operators staff and labours are trained to fight fire	a. Fire extinguishers shall immediately used b. Water hose will be operated to set out the fire c. Emergency alarm to be put on to signal the accident d. First aid shall be rushed to the site by the security staff
B	Furnace is Leaked	IN case of furnace crack, molten metal may leak causing splash of hot metal	a. GLD (Ground Leak Detector) Safety Device Installed b. Continuous monitoring of furnace shell is done to maintain and observe proper temperature c. Movement of staff and labours is not permitted near to the furnace d. Heat zone sign displayed near to the furnace e. Safety shoes safety goggles hand gloves apron and safety helmet provided to workers	a. Immediately drain out the furnace by pouring or tapping out b. Molten Slashed Metal is allowed to cool down before removing. c. Further process is stopped till repairs are conducted. d. In case of fire fighting equipments are used to set out the fire.
C	Slag Spot	Leakage due to breakage in slag PLOT	Frequent checking of slag PLOT to be observed.	Further process is stopped till slag cool down and after cooling of the slag removed carefully
D	Molten Metal	Molten hot metal may fall on human body	Only trained labourers should be allowed with proper heat proof dress /gum boots/aprons	First aid should be given send to medical for further treatments
2	Furnace Transformer	Fire hazard possible	a. Furnace should be operated with prescribed load b. Carefully changing of tap on load. c. Temperature of furnace / transformer should be observe continuously d. Furnace oil level/quality monitored regularly e. Unauthorized person are restricted no entry boards should be provided	Power line should be immediately put off a. Fire fighting steps should be taken to stop fire b. Further processing must be stopped till repairing is over
3	Control Room	Electrical Shock possible due to leakage.	A. Earth leakage circuit breaker is installed. B. Shock precaution and treatment chart are displayed. C. All instruments are properly earthed.	A. In the event of electric leakage main supply should be immediately shut off. B. Shock treatment and medical aid shall be immediately provided.

4	Electrical Transformer	Electrical power	(B) Shock proof insulated PCC Platform.	Cut off the power supply treat the injured for electrical shock
		Fire (A)	Fire fighting equipments: (i) Sand buckets. (ii) Fire extinguisher.	Immediately fight fire with available resources summon outside help if necessary.
	Water Tank	Drown of a man is possible	A. Cooling pond / water tank should be fenced or covered. B. Worker must not be permitted for using the pond / pond for general utility.	Drowned person should immediately be given first aid. If any injury may cause then after giving first aid to person/worker refer for the further treatment to Doctor/Hospital.
6	Control Rooms / Electrical Sub Station	Electrical Shock possible due to leakage.	A. Earth leakage circuit breaker is installed. B. Shock precaution & treatment charts are displayed. C. Operator should be provided with insulated shoes. D. All instruments are properly earthed.	A. In the event of electric leakage main supply should be immediately shut off. B. Shock treatment & medical aid shall be immediately provided.
7	E.O.T. Crane Movement	Hoist Rope Breakage possible.	a. No movement of strange people in crane bay will be permitted. b. Frequent check of the rope and other load bearing material shall be done. c. Light indication movement of crane shall be provided. d. Prescribed load shall only be allowed.	Weak Rope shall be immediately replaced.
8	CCM Tundish is leaked splashed	In case of tundish shell and lining crack, molten metal may leak causing splash of hot metal. In case of excessive pouring the metal may splash from tundish.	1. Continuous monitoring of ladle shell is done to maintain and observe proper temperature. 2. Purging is controlled carefully. 3. Liquid metal is not filled till the brim; free board is maintained till the safe height. 4. Dry compound only is used. 5. Movement of staff and labours is not permitted below the ladle. 6. Heat zone sign displayed near to the ladle. 7. Safety shoes, safety goggles, hand gloves, apron and safety helmet provided to workers.	1. Immediately drain out the ladle by pouring or tapping out. 2. Molten splashed metal is allowed to cool down before removing. 3. Further process is stopped till repairs are conducted. 4. In case of fire, fire fighting equipments are used to set out the fire.
9	Hot cast billet at discharge point is leaked.	Due to improper cooling at mould or shell formation being weak molten metal may leak causing splash of hot metal	1. Cooling water flow is checked very carefully. 2. The hot cast billet temperature is also checked regularly. 3. Water quality is also checked and inflow out flow water temperature in the cooling jacket is checked regularly.	1. Stop the pouring immediately by plugging the tundish and or putting launder. 2. Drain out the remaining liquid metal in the mould. 3. Molten splashed metal is allowed to cool down before removing. 4. Further process is stopped till repairs are conducted.

10	Hot cast billet at discharge point is entangled at the hot billet shearing machine	Due to excessive cooling at mould the billet may not be hot enough to get cut through the shear.	Temperature of the billet being cast is monitored regularly.	1. In case of non operation of the hot shear cut the billet by oxygen and acetylene torch. 2. In case of further problem stop the casting process. 3. Resume after rectifying the problem.
11	Rolling Mill Division	Rolling stand jamming of rolled products	Rolling operation to be stopped immediately	Open stand jammed rolls removed after cooling down. Frequent checking should be done.

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

IMMEDIATE ACTION TO BE TAKEN IN CASE OF MISHAP IN LABORATORY

S.No.	Accident	First Aid
1	Combustible liquid	Don't run about, lie down and roll on the floor wrap the victim by blanket.
2	Large Heat burn	Treat with gauze, thoroughly soaked in normal saline.
3	Small heat burn	Treat with antibiotic cream.
4	Skin of eye effected with Caustic liquid	Immediately wash with clean water. Wash off Caustic liquid from the skin or Eye at the nearest tap
5	Skin affected by:	
	A. Acid	Apply sodium bicarbonate solution.
	B. Alkali	Apply dilute ammonium chloride solution.
	C. Bromide	Apply dilute ammonia as quickly as possible. Then apply a thick paste of Sodium Bicarbonate and water.
	D. Silver Nitrate	Apply normal saline solution.
6	Discomfort due to treating small quantities of chloride or Bromium	Cautiously sniff ammonia gas from bottle of dilute ammonia solution.
7	Chemical in mouth	Split chemical from mouth and wash mouth thoroughly with water.
8	Cuts	Apply Mentholated spirit and soft cream.

PRECAUTION TO BE OBSERVED WHILE PERFORMING JOBS AT HEIGHT

1. Use proper and strong ladder.
2. Put ladder in proper place.
3. Clean oil and grease from the floor or place.
4. Attach hook at the top of the ladder.
5. A slight mistake may cause fatal accident.
6. If required engage man to hold the ladder on the ground.
7. Check the site before work.
8. Tie up the tools in use to avoid failing.
9. Always use proper tools.
10. Fully understand the work to be done before going at Height.
11. Forget not that the safety belt is a life saving device for those who are working at High Level

USE THE PROPER TOOLS

1. Don't use improper tools
2. Tool should be in good working condition.
3. Take help of Supervisor for proper selection and use of particular tools.
4. Choose spanner of exact size.
5. Electrical tools must be tested first before use.
6. Tools must be used properly and only when their exclusive use is required do not use knife when screwdrivers is required.
7. Do not through the tools to pass it on to your fellow worker it is a wrong practice. It may hit or injure.

FIRE HAZARDOUS AND ITS PREVENTION

First form of energy known to human being is fire. Man has worshiped it but uncontrolled let fire cause HAVOC and can be damage to un extents.

FOR PREVENTION FIRE FOLLOWING POINT ARE SUGGESTED

1. Whenever highly inflammable goods are stored, electrical appliances should not be used continuously.
2. Do not kept waste papers, waste wooden piece along with inflammable goods at a place.
3. Store inflammable liquids, lubricants in proper container, tins with tight lid and also put label on it.
4. Knowledge of fire extinguisher should be provided to the employees where the equipment is places and not in use.
5. Keep open fires away from bedclothes.
6. All should be educated about the consequences of storing petrol, kerosene near store and tools room.
7. Inspect your strong room/area periodically and put inflammable items, clothes, etc. away from store/ tools rooms.
8. Alternative proves fruitful in fighting fire hazards and saving society from huge loss of person and property
9. Keep fire-fighting equipments in good working condition.
10. Train security personnel in fire fighting to face situation in mishap.

SAFE USE OF ELECTRICITY

To avoid Electric shocks it is very important to understand how to use electricity very safely. It is 100% possible to avert the electric shock at all times. A little alertness on the part of electricians, electrical supervisors and workers may 100% avoid any electrical shock accident. It is therefore advised that the electrician should always observe the following:

1. He must wear rubber-soled shoe.
2. He must use rubber gloves to attend electrical repair.
3. He should ensure to switch off the line before attending to work.
4. He should check the point of work by a Electric Tester, to ensure that there is no at point.
5. All the point of work should be properly earthed.

It has been observed that most of the Electricians know about the above but still from time to time news of accidents is heard. It is always due to negligence, over confidence or hurry to finish the work, carelessness in attending the works. It is therefore advised to always alert the electricians of these.

It is also advised that every equipment and cable must be properly isolated with suitable isolated device and each of this isolation is identified by proper marking.

The suitable isolators are installed, properly marked, locked and out point circuit should be suitable earthed.

It has also been observed that sometimes explosion occurs in Oil Circuit Breaker and in Oil filled Transformer. Such explosion takes place only when oil is overheated due to increase in the temperature of winding, which may be result of overloading. To prevent over loading safety devices and CONTROL equipments are properly installed. The current is constantly monitored and at the increase of current the load is reduced. Besides this oil temperature gauge is installed in transformer and a hotter is also installed the moment temperature increases that the specified limit the hotter get activated and then immediately load is reduced or is switched off to cool the transformer. Besides this periodical testing of transformer and cable and oil should be done to avoid explosion.

CABLES

Cables must secure properly. It must be protected from all physical hazards and damages. All junction boxes must be protected and well supported. Checking of earthling is necessary. All junction boxes should be fitted with compound.

TRANSFORMER

Distribution Transformer

Distribution Transformer shall be located in substation in free air and shall be mounted at Height on Girder to protect from physical damage. Temperature of oil should be continuously monitored and the quality of oil should be checked periodically.

SUB-STATION

Sub-Station must be properly fenced and to avoid entry of replies such as snakes etc., round rabbles must be properly and evenly distributed on ground.

THE FOLLOWING CHECK POINTS MUST BE CONSIDERED:

- a. Checking the quantity of oil.
- b. Checking of any leakage from transformer.
- c. Checking of gasket or radiator tube or transformer.
- d. Suitable extinguisher used must be installed nearer to the transformer.
- e. Checking of CONTROL CENTER switches, starters.
- f. All operating handles and reset buttons should be free for operation.
- g. Checking of all type of protection relay.
- h. Terminal of cables must be checked periodically.
- i. Checking of contacts and replacing them.
- j. Periodic checking of MOCB and ACB.

The electric supply of the factory comes from sub-station through 33 KV line substations with all facilities and protection such as drop out fuse to protect over current, earth fault relay, MOCB, SF6 etc. and lightening arrester, in the sub-station.

The Safety Operations in the sub-station are as follows:

- a. Before operations checking of all relays fixed in 33 KV lines
- b. If any relay or equipment found defective it must be immediately informed to Senior Officers and rectified.
- c. To attend to any work in sub-station from General Manager (Works) is taken and also CSEB is informed and shutdown is taken from CSEB sub-station. First of all the conductors and capacitor banks are discharged by earthing through a rod. They work is done. After completion of work information given to G.M. works and then to CSEB and then line is charged.

SUPPLY FAILURE

In case fails due to internal problem or due to fault in CSEB supply then:

- a. First of all MOCB is tripped and fault detected.
- b. Following safety equipments are provided to Electrician:
 - 1. Hand Gloves
 - 2. Goggles
 - 3. Safety Apron.

After detection of fault it is rectify and informed to General Manager (Works) before switching on the line. Then the line is switched on.

- a. In case of failure from CSEB side they are contacted immediately to rectify the fault.
- b. The following safety equipments are provided in CONTROL CENTER room for any emergency.
 - a. First Aid Box
 - b. Artificial Respiration Chart
 - c. Discharge rod
 - d. Hand Gloves
 - e. Asbestos apron
 - f. Goggles
 - g. Fire Extinguishers and Sand Buckets.

SPECIAL CARE FOR USE OF ELECTRICAL APPLIANCES:

We have seen that a number of accidents take place from time to time in any nation every year due to electrocution. It may be surprising to note that carelessness and ignorance is the root cause in almost all such accidents.

TO AVOID SUCH ACCIDENTS, FOLLOWING SAFETY MEASURES ARE SUGGESTED:

1. Do not use damaged plugs, wires, switches etc.
2. Do not touch the electrical appliances with screwdrivers etc., until and unless the supply is cut off.
3. Do not touch the appliances with wet hand when supply is there.
4. Do not connect a number of appliances in a single point. Risk of fire will be obvious.
5. Do not keep wires hanging or loose but fittings should be proper and safe.
6. Use of only three-pin plug is advised as one point has earthing facility.
7. In ceiling fans, nuts and safety pins fitted must be checked periodically.
8. Connect the supply to appliances through plugs only do not insert naked wires, matchsticks or wooden stick.
9. Defective appliances should be immediately rectified through a competent person.
10. Supply should be cut off before attending a repair of equipment.
11. Keep heaters or room heaters away from the material, which are sensitive to fire.
12. Use the appliances as long as you actually require. After the job is done switch off the supply to save energy.
13. Fuse wire of proper size should be used.
14. Clean the dust etc. of appliances before using.
15. Do not rush to save electrocuted person without taking proper care.
16. Before touching the affected person switch off the main.
17. Use rubber insulated tools and rubber hand gloves for working during supply or in its line.
18. Where there is danger caution board or HT line, please keep yourself away from site.
19. Always prefer equipment of ISI marked. The above precaution certainly saves from the accidents in factory as well as at homes.

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

EMERGENCY CONTROL CENTER

EMERGENCY CONTROL CENTER (E.C.C.) is established at the chamber of Factory Manager' office.

The Chief Incident Controller in association with, the key personnel will manage the E.C.C. and Sr. Officers of outside agencies called in for assistance. No other personnel shall be allowed to access to the E.C.C.

FACILITIES AVAILABLE AT E.C.C.: The Emergency CONTROL CENTER is equipped with the following data/information:

- a. Safety data pertaining to the hazardous materials likely to cause emergency.
- b. Procedure of major and special fire fighting, rescue operations, first-aid, artificial respiration system, etc.

The following facilities are available at emergency

1. IMPORTANT PERSONAL PROTECTIVE EQUIPMENT

No. of emergency respirators kits available	No. of self contained breathing apparatus	No. of air line respirators	No. of canister respirators	Other ppe's	neutralization facility provided for Neutralising chemicals
1	1	1	1	Rubber Hand Gloves Listed Below	Lime Pit

Have been kept in emergency kit Glass cabinet at the following prominent locations:

CONTROL ROOM

Only in the event of any emergency, the personal protective equipment kept in the "Emergency Glass Cabinet" shall be used. Following Personal Protective Equipment will be readily available in the aforesaid "Emergency Kit". Self Breathing Apparatus with oxygen portable cylinder.

CONISTER WITH MASK

- | | |
|---|-----------|
| a. For Electrical works (Rubber Hand Gloves) | 250 Pairs |
| b. For hot works (Asbestos Hand Gloves) | 50 Pairs |
| c. For metal handling works (Leather hand Gloves) | 50 Pairs |
| d. Gumboot | 100 Pairs |
| e. Safety Belt (General purpose) | 20 Nos. |
| f. Safety Belt (General purpose) | 50 Nos. |
| g. Safety Belt for Electrical works. | 20 Nos. |
| h. Safety and chemical goggles | 100 Nos. |
| i. Helmet | 220 Nos. |
| j. Apron | 10 Nos. |

The above items shall be inspected and ensured serviceable by the concerned Shift In charge Engineers of the location on regular intervals.

Any damage/deterioration/defect noticed in any of the abovementioned personal protective equipment shall be highlighted in the record register to be maintained by the Shift In charge Engineer and accordingly, replacement of the same shall be ensured.

2. FIRE PREVENTION FACILITIES

As on date, we possess the following fire fighting system to combat with the fire.

- a. Fire extinguishers of various capacity and types.
- b. Fire buckets
- c. Hose Reel

The following fire fighting system is established for the plant:

- a. Hydrant system
- b. Sprinkler system.
- c. Fire water reservoir

FIRE PREVENTION AND FIRE CONTROL MANAGEMENT

The following fire fighting system is under process procurement/establishment for the plant

LIST OF FIRE FIGHTING FACILITY [A.]

S.No.	DESCRIPTION	QTY IN NO.
1	Dry chemical powder type 10 Kg. capacity fire extinguishers complete set with initial Refill.	01
2	Dry chemical powder type of 1Kg. capacity Fire extinguisher complete set with initial Refill.	01
3	Fire bucket 9 Lit. Capacity.	04
4	SIREN Hand operated	03
5	Fire Hydrant Points	10
6	Lighting Arrestors	02

Municipal Corporation has a Fire Fighting Brigade and is just 15 Kms. away in case of any major fire occurred and one Fire Fighting Brigade facility is also available at Railway Station through Station Master. In case of any emergency they can also called. In addition to above, arrangements are being made to send an officer to acquire requisite fire qualification.

3. EMERGENCY ALARMING SYSTEM

An Electronic Alarm Facility Is Available At Site Switch Is Kept In E.C.C/Time Office

S.No.	NATURE OF EMERGENCY	TYPE OF ALARM
1	Normal Factory Siren	Continuous Below for 15 Second (Once Only)
2	Fire Emergency Siren For And Other Emergency	Blow For 10 (Ten) Seconds And Off For 05 (Five) Seconds. To Be Repeated 03 (Three) Times.
3	All Clear Siren For Factory Workers	Blow For 15 (Fifteen) Seconds And Off For 05 (Five) Seconds. To Be Repeated 05 (Five) Times.
4	All Clear Siren For General Public	Blow For 20 (Twenty) Seconds And Off For 05 (Five) Seconds. To Be Repeated 05 (Five) Times.

Emergency call out list of persons drafted for emergency control i.e. key personnel and notified team members, security, police and state authorities.

WORK ENVIRONMENT QUALITY AS PER POLLUTION DEPTT.

Work Environment Quality is very nice, management try to give pollution free working atmosphere throughout the factory premises. Time-to-time we arrange monitoring for the pollution in and nearby the factories to know about the pollution contamination of atmosphere due to handling/processing of chemicals and other materials used for manufacturing. A report of monitoring about the Working Environment Quality is given as under:

S.No.	PARAMETERS	LIMITS
1	Ph	5.5 – 9.0
2	Suspended Solids	100 Milligram per Liter
3	BOD	30 Milligram per Liter
4	COD	250 Milligram per Liter
5	Oil and Grease	10 Milligram per Liter

Intercoms

- a. Telephones
- b. District Telephone directory.

ASSEMBLY POINT

EVACUATION

In an emergency it is almost certain to evacuate affected personnel from inside the factory to a safer place. It is also essential to evacuate non-essential workers to streamline Emergency Action Plan activities and ensuring safety of those people. The evacuation will be affected after getting information from Works Incident Controller soon after emergency arises. On evacuation, all works staff and employees other than notified members, shall be assembled at the assembly points for receiving further information etc.

INFORMATION TO GOVT. DEPARTMENT

CIC/WIC will inform to all govt. department as well as to factory inspector about the committed emergency and try to gather and implement the suggestion from them.

ASSEMBLY POINT:

The point near main gate has been ear marked as Assembly Point for the purpose defined above.

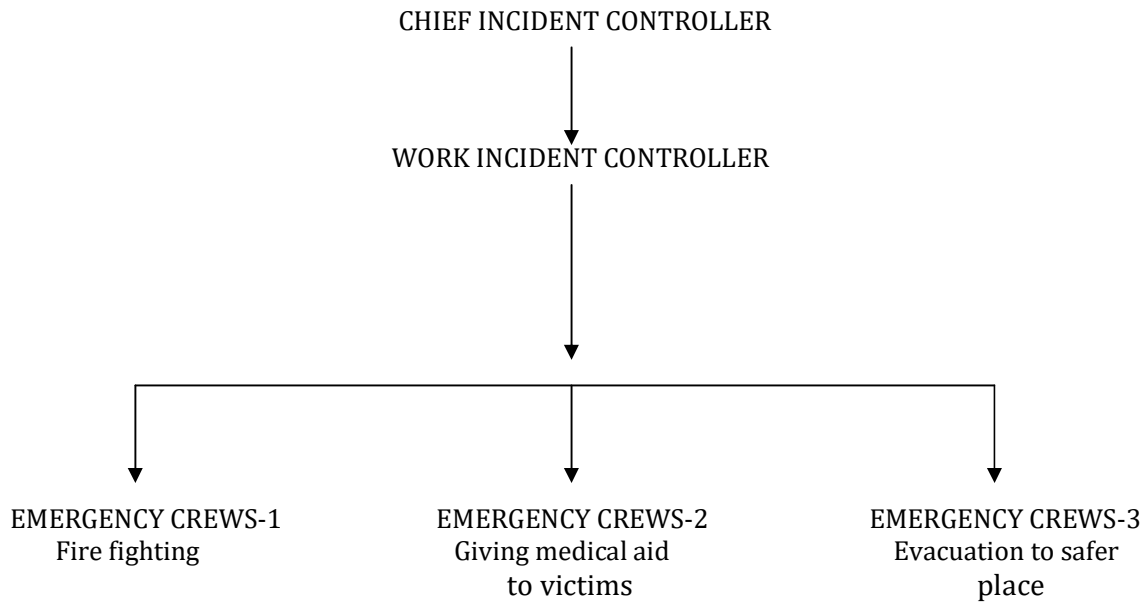
As soon as the non-essential staff and employees come to know about emergency, they shall reach to the assembly point without delaying further to ensure their safety and security.

ALTERNATIVE ASSEMBLY POINT:

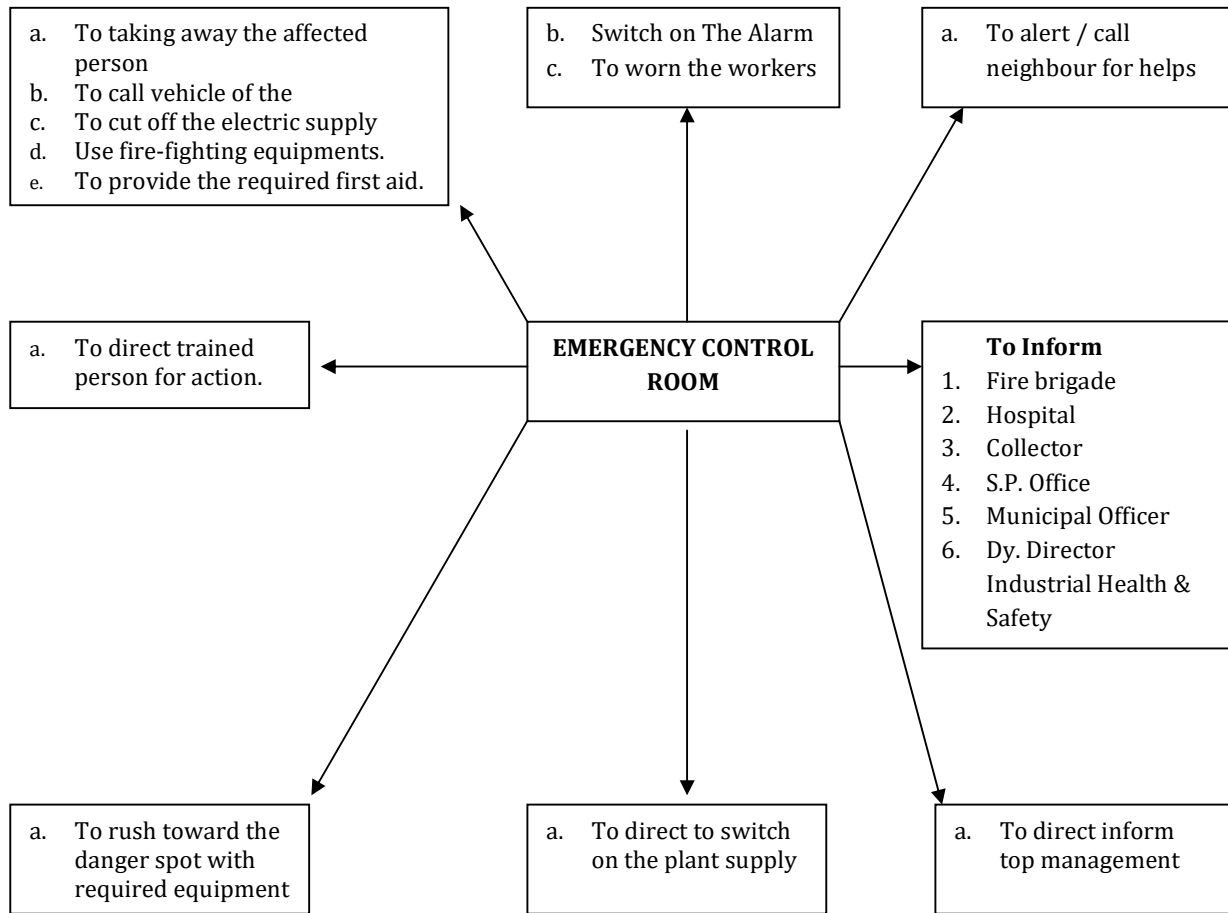
In the event of any problem, if arises so, to establish Assembly Point at plant, the Alternate Assembly Point has been ear marked in the site plan .All employees and work staff assembled at the Assembly Point shall abide to the information's and actions plan made known to them either by C.I.C. or W.I.C. or their representatives.

The non-essential work staff and employees shall not leave the assembly point unless and until asked for by the competent authority.

ACTION PLAN SET UP

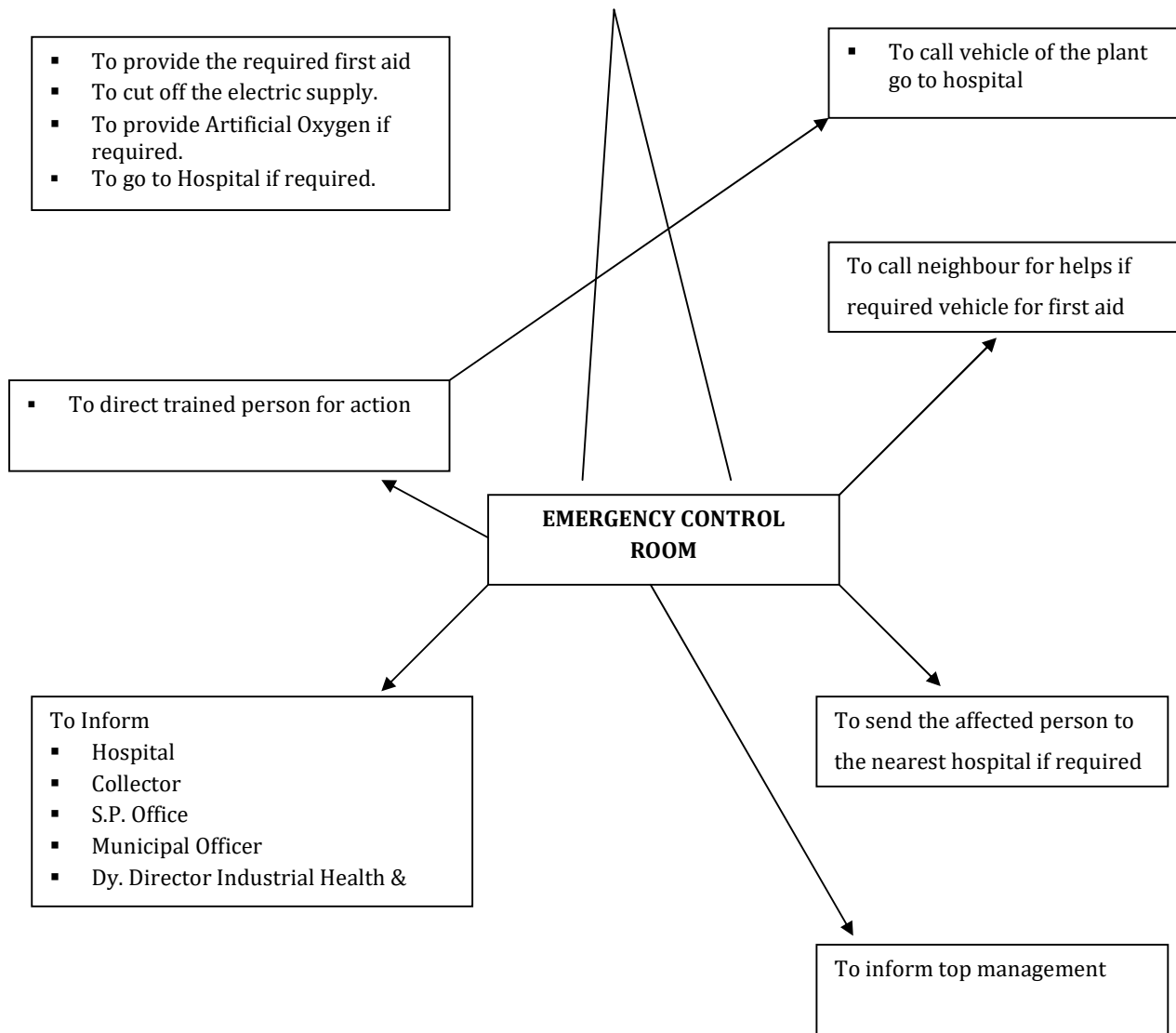


CALL OUT CHART IN CASE OF FIRE



EMERGENCY PLAN IN CASE OF ANY ACCIDENT EXPECT FIRE

INFORMATION RECEIVED



ACTION PLAN

FIRST INFORMATION OF EMERGENCY

As soon as an Emergency is noticed by any of the Staff, he shall shout “fire” “aag” “aag” to divert the attention of the people of the Emergency. And, subsequently informed of the emergency by telephone to the Shift Engineer and to the Security/Fire Officer./CIC/MANAGER.

The Shift Engineer and the Security/Fire Officer shall immediately inform of the Emergency to the Chief Incident Controller and the works Incident Controller. In addition to this, they shall also inform to the Telephone Operator so as to intimate to all notified team members and others accordingly. Emergency sirens should be sound to let the all persons know about the emergency. All the crewmembers should run to the E.C.C. All other workers/persons should run to the assembly point. CIC/WIC SHOULD ALSO VISIT THE SPOT OF FIRE OR OTHER EMERGENCY. BY assessing the situation CIC instructs all crewmembers to meet the emergency with available resources. The outside help like fire brigades, ambulances van and police assistance may be called by CIC if he wants

The Emergency Action Plan defines responsibilities of the following personnel:

1. Chief Incident Controller
2. Works Incident Controller
3. Key Personnel and Non-Key Personnel during the emergency.

In addition to above, the following actions will also be taken during the emergency period BY C IC:

1. Declaration Of Emergency
2. Giving All Clear Signal

Further, the responsibility of Emergency Control Centre has also been defined in the action plan.

RESPONSIBILITY OF CHIEF INCIDENT CONTROLLER.

The over all in charge **Rajesh Tiwari** shall be the Chief Incident Controller in case of emergency, if any, arises. The Chief Incident Controller (CIC) shall assume overall responsibility for the factory/storage site and its personnel.

THE C.I.C. SHALL BE RESPONSIBLE:

- a. To assess the magnitude of the situation and to decide if the affected staff needs evacuation from the assembly points to identify safer place.
- b. After consulting the WORKS INCIDENT CONTROLLER, to Declare EMERGENCY IN THE PLANT
- c. To exercise direct operational control over the Area other than those affected.
- d. To undertake a continuous review of possible developments and, assess in consultation with key personnel as to whether shut down the plant or any section thereof. And the need of evacuation of personnel.
- e. To liaise with Sr. Officials of Police, Fire Brigade, Medical Authorities and Factories Inspectorate. And provide advice on possible effects on area outside the factory premises as well as head of Personnel.
- f. To look after rehabilitation of affected personnel on discontinuation of Emergency.
- g. To issue authorized statements to news media and ensure that evidence is preserve for enquiries to be conducted by departmental as well as statutory authorities.

1) RESPONSIBILITY OF WORKS INCIDENT CONTROLLER (W.I.C.)

- a. **MANAGER** shall be the works Incident Controller (WIC). The W. I. C. shall immediately rush to the incident site as soon as he comes to know about the emergency and, shall take overall charge. He shall subsequently inform of the emergency to the chief Incident Controller.

He will assess the extent of the emergency and decide if major emergency exists and inform the Communication Officer accordingly.

HE SHALL BE RESPONSIBLE:

- a. To direct all operations to stop within the affected area taking in to consideration priorities for safety of personnel, minimum damage to the plant, property and environment and, minimum loss materials.
- b. To provide advice and information to the Fire. Security officer and the local fire service.
- c. To ensure that all non-essential workers/staff of the affected area are evacuated to assembly points and that the affected area are searched for casualties.
- d. To set-up communication points and establishes contact with Emergency Control in the event of area of electric supply causing disruption in Public Address System (PAS) and internal telephones.
- e. To report on all significant and developments to the Communication Officer, and
- f. To have regard to the need to preserve the evidence so as to facilitate any enquiry into the cause and circumstances this caused or escalated the emergency.

2) KEY PERSONNEL

Apart from the Chief Incident Controller and works Incident Controller, there shall be other key personnel who will be responsible to assist the C. I. C. and the W.I.C. as well as to carry-out the job assign to them in connection with combating with the emergency.

THE KEY PERSONNEL INCLUDES:

Shift Engineers for –

- a. Operation (Production)
- b. Mechanical Maintenance
- c. Electrical. Instrumentation
- d. Quality Control

Head of personnel and officers connected with I.R. and Labour Welfare, and Safety.

- Medical Officer
- In charge of Security and Fire.
- Transport Officer (administrative Officer) of Personnel. Administration Department.
- Public Relation Officer

A list of the key personnel along with their telephone numbers and their residential address shall be made available to all concerned suitably.

Wherever and wherever required, the key personnel in addition to their job assigned, shall assist the Chief Incident controller and works Incident controller.

3) ESSENTIAL STAFF

To streamline the activities in connection with combating the Emergency, personnel selected shall be known as Essential Staff. This may include Steno/Typist, Attendants, Messengers, Drivers, and Supervisors etc. depending upon the services required by either. C.I.C. or W.I.C. or the key Personnel.

It will be the responsibility of works Incident Controller to identify the essential staff from work Task Force and ask them to report at the define control centre so as to ensure their availability.

It will be the responsibility of Works Incident Controller to remove all employees and other personnel (other than the notified team members, key personnel, and the essential staff) from their work place to the Assembly Points.

5.Post-Emergency Activities:

As soon as the emergency is over the CIC /WIC will go to the incident site to check whether everything is o.k. After their satisfactions normal factory siren will be sound **GIVING ALL CLEAR SIGNAL** and work will again start as usual.

POST-EMERGENCY OPERATION

After the fire is extinguished from entire place / area the concerning team in charge will inform to the CIC/WIC about the situation so that the all clear signal will be sounded on the electric siren by the consultation with CIC and WC.

All clear signal

After overcoming of emergency arise, works incident controller will communicate to CIC about it. After verification of status, the CIC will communicate and announce the all-clear instruction to sound the all-clear signal.

Action of Salvage Team

After overcoming the emergency occurred in factory. The salvage team will act to clean/normalize and to decontaminate the affected area/section, so that working / production can be restarted. The action taken by Salvage teams is as follows:

- Clean / remove the vapour of toxic materials present in atmosphere by means of exhaust / sucking equipment.
- Proper checking / maintenance of all plant and machineries of affected section and to maintain them in working condition.
- Find out the reason due to which emergency has occurred and after analyzing develop corrected plan that it will not be repeated in future.
- Inform to CIC after making affected area as well as it was, for restarting the production / taken in use.

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

EMERGENCY CREWS

Following team shall be notified for deployment in case of any emergency. The responsibilities of this team will be defined in next-pages: They will work as per roll given to them. They will follow the instruction of C.I.C/W.I.C.

EMERGENCY CREW-1 FIRE FIGHTING

SL.NO.	NAME /POST	ADDRESS	PHONE NUMBERS
1	Samresh Kumar (MD)	M/s SAMBHAVI ISPAT PRIVATE LIMITED Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)	+91 99389-53704
2	Rajneeti Paswan (GM)	M/s SAMBHAVI ISPAT PRIVATE LIMITED Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)	+91 95836-80294

EMERGENCY CREW-2 GIVING MEDICAL AID TO VICTIMS

SL.NO.	NAME /POST	ADDRESS	PHONE NUMBERS
1	Subala Pradhan (Mill In charge)	M/s SAMBHAVI ISPAT PRIVATE LIMITED Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)	+91 80857-50121
2	Shankar Baghel (Store In charge)	M/s SAMBHAVI ISPAT PRIVATE LIMITED Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)	+91 91319-79641

EMERGENCY CREW-3 EVACUATION TO SAFER PLACE

SL.NO.	NAME /POST	ADDRESS	PHONE NUMBERS
1	Ranajit Bhowmik (Office Head)	M/s SAMBHAVI ISPAT PRIVATE LIMITED Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)	+91 96472-66472
2	Satish Yadav (Office Executive)	M/s SAMBHAVI ISPAT PRIVATE LIMITED Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)	+91 72538-99332

RESPONSIBILITIES OF THE CREWS

EMERGENCY CREW-1 Fire fighting

- a. To identify the source of hazard and to neutralize contain it according to Prevailing circumstances.
- b. To isolate remaining plant and keep that in safe condition.
- c. To organize safe shut down of the plant, if necessary.
- d. To organize all support services like operation of fire pumps, sprinkler system, etc.
- e. Attend to all emergency maintenance jobs on top priority.
- f. To take steps to contain or reduce the level of hazard created due to disaster.
- g. To organize additional facilities as desired:
- h. To rush the fire spot and extinguish the fire.
- i. To seek help from outside fire fighting agency through the notified. Officers, if the fire is out of control under the existing system.
- j. To evacuate persons affected due to whatever reasons.
- k. To maintain the communication network in working condition.
- l. To attend urgent repairs in the communication system, if required.
- m. To arrange messengers for communicating urgent messages to relatives of victims when needed so.
- n. To help authorities to communicate with external or internal authorities/officials.
- o. To OPEN all gates.
- p. To bar entry of unauthorized persons.
- q. To permit, with minimum delay, the entry of authorized personnel and outside agencies, vehicles, etc all who have come to extend their help in emergency.

EMERGENCY CREW-2 medical aid

- a. To allow the ambulance/evacuation vehicles, etc, to go through gates without normal checks
- b. To rescue the casualties on priority basis.
- c. To transport casualties to First-aid post, safe place, or to Medical Centres.

EMERGENCY CREW-3 evacuation

- (a) To account the personnel.
- (b) To help in search of missing personnel.
- (c) To pass information to the kith and kid of fatal or serious injured persons.
- (d) To arrange required safety equipment.
- (e) To record accidents.
- (f) To collect and preserve evidences in connection with accident enquiries.
- (g) To guide authorities on all safety related issues.

ROLL CALL SYSTEM OTHER ACTION / INFORMATION

The time office will maintain the all register for attendances of all workers as per act. The gate pass will be issued to each Labor. Proper record of visitors will also keep.

OUTSIDE DANGEROUS:

The outside danger will be taking up with the help of police and safety guards. Proper record of visitors will also keep. Outside emergency includes earthquake, storm, and lightening air crash, collapse of infra structure/building(s), deliberate acts to cause sabotage etc.

Earthquake and flood:

- Earthquakes present unique problems as they upset the complete infrastructure necessary for rescue and restoration of normalcy. For example, it could prevent emergency personnel from reaching victims,. It increases the risk of fire and electrical shock, could result in complete failure of the telephone and other communication systems, disruption of water for fire fighting / other reasons, and increases the possibility of burst pipelines carrying petroleum oils. It could, in addition, prevent ambulances evacuating victims, fire personnel from reaching the fire incident areas result in major structural debris causing secondary damage and most importantly, could affect the entire emergency organization that is geared up for fire emergencies. Damage from falling structural debris could signal an end to conventional plans.
- The main actions for earthquake incidents include preventive (pre incident), during incident and post incident actions. Each earthquake, depending upon its intensity (as measured on the modified Mercalli Scale) would have different extent of damage. Some mild earthquakes could result in minor tremors felt within and perhaps outside the administration building, major ones could result in complete destruction of storage tanks, rupture of pipelines and complete collapse of admin block building. Some of the precautions that are important include.
- Basic earthquake related training to staff (behaviour during earthquake, how to recognize, dos and don'ts etc.)
- As blackout is possible, a kit containing flashlights, portable radio, basic tools etc should be available for emergency.
- Basic precautions such as sitting away from wall hanging items, bolting of alamedas to the wall rather than loosely lying cupboards, pasting tape to the glasses to avoid excessive shattering.
- Actions during an earthquake would depend upon the severity of the quake and the extent of damage – however, the basic steps for safeguarding the safety (top most criterion) include:
- Activation of the fire orders, as fires is likely in case of major earthquakes. Pipelines would be expected to rupture, as too would storage tanks- this would result in a large-scale spillage and possible fire of the oil. The fire fighting system is likely to be incapacitated. In addition, power supply may be (most likely) cut off. Most likely, therefore, the Off Site Plan would need to be activated, as fatalities beyond the depot boundary wall are likely to be affected.
- The main action would involve:
- Cutting off the power supply (if not cut off on its own already) to avoid electrical shocks, fires etc.

- Halting any unloading / loading operations if in progress by emergency stoppage of pumps.
- Sending away road tank-trucks to safe zones for further instructions.
- Any major oil spillage could also overflow the dyke walls and spread around. Halting or minimizing this flow of oil may be attempted where practical and if possible without endangering human life.
- For personnel, important instructions include:
 - Drop, cover and hold.
 - Get under a heavy table or desk and hold on, or sit or stand against an inside wall if inside the admin block and unable to come out. If possible to come out without difficulty, assemble outside the admin block to avoid fatality due to structural collapse.
 - Keep away from windows as these may shatter / crack resulting in possible injury.
 - If indoors in admin block, stay there.
 - If outdoors, stay outdoors away from fall a object (lighting poles, pipe racks, structural roofs etc.), falling debris, trees, and power lines.
 - TT drivers should drive to a clear spot and stay in the tanker. They must avoid stopping on or under pipe racks.
- Post earthquake actions are extremely important and these include:
 - Expect aftershocks. They are just as serious as the main earthquake. Many Earthquakes in the past were multiple tremor ones, not a single quake
 - Put on shoes to protect from broken glass. Chapels etc. are to be avoided at any cost
 - Check for injuries and fires (secondary fires could be raging).
 - Use a flashlight to inspect for damage.
 - Do not go into damaged areas unless specifically trained to do so.
 - Do not use telephone except in emergencies.
 - Do not use vehicles except in emergencies.
 - Use a portable radio for information.
 - Assist in rescue of co-workers and other persons who could be present at the terminal as per the Fire orders.

Floods:

Floods are natural calamities that have the potential to cause widespread damage to human being and property. Flood planning is perhaps the best protection against flood damage. Floods however occur after pre-warming, enabling advance action. Flood could completely submerge process equipment, buildings, pipelines and damage storage tanks. Most importantly, floods could result in drowning deaths and injury. Main actions during flood revolve around the following:

- Cut-off electrical supply to prevent electrocution.
- Switch off / discontinues all operations at the installation.
- Establish contact with the flood control room (Government) for up to date status.
- Flood damage control methods include.
 - Keep Insurance papers, important documents, and other valuables in a safe deposit box at a safe location.
 - Have a flood kit containing portable radio, flashlight, and emergency supplies.
 - Move furniture and other items to higher levels in advance.

- Listen to portable radio for up-to-the minute information.
- Use telephones only for life-threatening emergencies.
- Evacuate, if necessary and follow instructions.
- Do not walk or drive through floodwaters.
- Stay off bridges where water is covering them.
- Keep out of storm drains and irrigation ditches.
- Use a flashlight to check for damage.
- Stay out of the disaster area.
- Do not use vehicles except in emergencies

Bomb Hoax/Threat

In case of receiving a bomb threat at the depots, the following actions are advised:

- Be calm and composed and do not show signs of panic.
- Try and gain the trust of the caller by simple method (may be given your first name (If comfortable only), say you are new to the depot etc.). Be polite and courteous on the phone.
- Engage the caller for as long as possible as it may help later to trace the call or could help the caller give away critical hints. Do not ever let the caller hang up quickly.
- Try and note down (on a piece of paper) attributes of the caller such as accent, any background noise (station, airport, busy highway, hotel, TV in living room etc.). This evidence could be crucial.
- Do not show any signs of sarcasm on the phone (could set off the undesired reaction) or that you do not consider the call to be of a serious nature.
- Let the caller think you are fully convinced that his / her threats are genuine.
- Try and gain the confidence of the caller by engaging in serious conversation.
- Try and find out from the caller the location of the bomb, what type of bomb and other information, which could be useful.
- In case of threats by some terrorist organizations, try and engage in conversation (if confident) on ideological causes, how this move would realize their objective etc. However, only trained staff should do this.

SURROUNDING DANGEROUS FACTORY/PETROL PUMP:

There is no hazardous factories are located near us.

Accident History:

Nil

EMERGENCY LIGHT SYSTEM:

In Case Of Failure Of Current From C.S.E.B. **DG Generator** Is Installed To Start Emergency Meeting Systems Like Pumps, Emergency Lights Etc.

Reporting Method:

The CIC and WIC will inform by telephone/in writing to Sr. officials of police, fire brigade, medical authorities and factories inspectorate and provide advice on possible effects on areas outside the factory premises as well as head of Personnel.

INFORMING FAMILIES OF VICTIMS:

There is record register in which address of each labor/staff is recorded persons will be send to address of victims to inform about the injured members. Injured person family will be immediate inform by telephone.

METROLOGICAL DATA

The direction of wind of as there this area is generally from south west north east as there is no sea surrounding to this place the ambient wind is calm and stern. A windbag is fixed on the top floor of the unit to see the wind flow and direction. During extreme summer due to atmospheric pressure wind velocity is observed as high

A chart is fixed in E.C.C. main gate and prominent points giving details about air direction and its probable speed, gas detector is provided near manufacturing plant

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

FUNCTIONING OF EMERGENCY PLANNING EVACUATIONS OF FULL MOCK DRILL MONITORING COMMITTEE

For effective functioning of the Emergency Planning during the need of hours, full Mock Drill shall be carried out once in a six month time period.

The Full Mock Drill Monitoring Committee shall be comprised of the following personnel:

HEAD OF THE PLANT	Director
-------------------	----------

The committee may invite any other official/expert, if considered necessary.

The committee shall supervise the following activities:

1. Functioning of Emergency Control Center very effectively. Especially, to ensure availability of all facilities, etc. as mentioned in the plan and to make the function healthiness’.
2. In evaluate communication of the Emergency Plan to all segments of employees to familiarize them about their responsibilities in case of any disaster. Including evaluation of behaviors of employees and others.
3. To ensure that the necessities under material assistance scheme is properly documented and the concerned employees are fully aware in this regard.

EMERGENCY PLANNING MOCK DRILL

Mock Drill is the exercise to ascertain effectiveness and proper implementation of the EMERGENCY PLANNING to counter with any probable disaster with full resources fully and properly utilized to minimize the loss to lives and properties as well as to the environment.

The MOCK DRILL exercise shall have the following motive to work out the existing system related to EMERGENCY PLANNING.

1. Effectiveness of the emergency planning.
2. Availability of all facilities as per system laid down in the on-site emergency-planning book.
3. Constraint being faced to meet with the requirements.
4. Any shortcoming encountered while doing the Mock Drill exercise.
5. Improvement(s) needed to make the Mock Drill more effective and more fruitful.

The outcome of each Mock Drill Exercise shall be reported to the head of Plant by the Chairman of Efficacy Monitoring committee in a written report covering above mentioned and any other important points related to the on-site emergency planning and its Mock Drill Exercise, with the assistance of the committee members.

Suggestions, recommendations submitted by the committee, if any for improvement of the plan shall be rigorously worked out considering all pros and cons to arrive at a feasible and more effective working system. The decision so taken and amendment if so made in the plan/system shall be intimated to the Directorate of Factories, Chhattisgarh Government for obtaining approval thereof.

MOCK DRILL EXERCISE:

It is imperative that the procedure laid down in the On-site Emergency Plan are put to the test by conducting Full Mock Drill outlast once in a three months time period.

The Mock Drill shall be carried out step by step as stated below to ascertain its effectiveness and to obtain the desired result thereof.

FIRST STEP

Test the effectiveness of the communication system.

SECOND STEP

Test the speed of the mobilization of the plant.

THIRD STEP

Test effectiveness of search, rescue and treatment of casualties.

FOURTH STEP

Test emergency Isolation and shut down as well as the remedial measures taken on the system.

FIFTH STEP

Conduct a full rehearsal of the actions to be taken during an emergency.

FINAL STEP

Prepare the Mock Drill Exercise report covering all points related to deficiencies, deviations, and short comes. Lacunas constraint, etc. encountered during the exercise. Recommended suitable measures to counter with above mentioned evils and also suggest, if there is anything to add for improvement of the system.

EMERGENCY PLANNING EFFICACY DRILL

The Emergency planning efficacy drill shall be carried out once in every three months.

The E.P. efficacy drill shall be carried out under the supervision of E.P. Efficacy Drill Monitoring Committee.

The committee may invite any other Official(s)/Expert(s) to assist its functioning.

The requirement given below related to the drill activities shall be necessarily supervised by the committee for its being effectiveness. The committee shall also ensure meeting with these requirements to make the drill useful and result oriented.

1. All members are trained about their responsibilities/duties. All of them are well aware of the evacuation routes, direction of evacuation and the equipments to be used during evacuation or the evacuation.
2. All employees are fully trained to rescue their colleagues, who are affected due to cause of disaster. In case they are unable to rescue their colleagues, they should know to whom they are to inform about such person(s).
3. All employees are fully trained in First-Aid use of desired equipments including breathing apparatus. First-Aid box, etc. And that, all these First-Aid appliances, etc. are available at the desired locations.
4. All warning alarms are functional.
5. All Telephone lines / communication systems are provided in the control room.
6. All employees to be made aware of the authority-declaring **EMERGENCY**.
7. Concerned official(s) authorized to inform the District Authorities, State Authorities and Corporate Center in the state of EMERGENCY are well aware of their role.

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

MUTUAL AID PROGRAM

We have arranged mutual aid understanding with our neighbors' factory .In case of any emergency situation following nearby factory management may be called for help. They will help us with their resources

S.N.	Name of Factory	Facility Shared During Emergency	Mobile No.
1	M/S Singhal Enterprises Private Limited	Fire tender Fire Extinguisher, Firefighting water hose reel as per requirement, trained staff for Firefighting, 01 Nos. of Vehicle for evacuation procedure, medical first aid box and emergency vehicle.	07762-261405
2	M/s Raigarh Ispat & Power Private Limited	Fire tender Fire Extinguisher, Firefighting water hose reel as per requirement, trained staff for Firefighting, 01 Nos. of Vehicle for evacuation procedure, medical first aid box and emergency vehicle	07752-246501
3	M/s Anjani Steels Private Limited	Fire Extinguisher, trained staff for Firefighting, medical first aid box.	94255-71227

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

MEDICAL FACILITIES AVAILABLE NEAR SITE

Distance of hospital from factory	Bedded capacity	First aider available (give names)	Antidotes available (give names of Antinodes) s	Ambulance Van/ Alternative Arrangement		
				Equipments Available in Ambulance	Capacity of Ambulance / Van	Facilities available e.g. Safety Equip. Immobilization, emergency medicines etc. in the van.
Jindal First Aid Center, Punji Pathra	05	Doleshwar Bhasar	Ampoxin, Crocin, Bactrim D.S., Sorbitrate, Neosprin Powder & Oint. Locula Eye Drop. Dettol, Betadin, Cough Syrup, Strepsil, Lasix	All Stretcher Emergency, First Aid, Oxygen system, Saline with stand, Injection	Govt. Hospital NayaGanj, Raigarh, (C.G.)	All Emergency, First Aid, Oxygen system, Saline, Injection, Sorbitrate, Aten-10, Burnol.
ESIS Hospital Taraimal	02	Sandip Sidar	Tab, Decodran, Aten-10, Tetanus Toxide Inj. Bandage, Cotton Scissors		Sanjeevni Express Ph. No. 108 5 person	

Following medical facilities are available at factory

1. First-aid (situated closely to PA Office)
2. Ambulance Van may be called as and when required (Provided by J.S.P.L.)
3. First-Aid related medicines and injections. With cotton, scissors, ointment, smelling salt, tincher, antiseptic spray, burnol, bandage& band- aid
4. Sterilizers
5. Emergency Oxygen System
6. First-aid injuries treatment facilities.
7. Stretcher - 01 No. (Excluding available with Ambulance)
8. Other medical items covered under C.G. Factories Rules-1962.

Following facilities have established:

- 1) Bed facilities - 02 Nos.

All cases other than of First-aid natures are referred to Medical College Hospital that is around 15 Km. from the plant However; patients are sometimes referred to private Nursing Homes

FIRST AID BOX:

First-aid Boxes are kept in all-important locations of the plant numbering to 08 (Eight) to cater the needs of the employees at the spot.

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

HOSPITALISATION FACILITIES NEAR SITE

S.No.	Name	Number of beds At least	Address/ Phone No.	OHS expert, antidote for hazardous materials
1.	Jindal First Aid Center	05	Punjipathara	YES
2.	Fortis O.P. Jindal Hospital & Research Centre	100	Patrapali, Near JSPL Plant, Kharsia Road, Near O.P. Jindal School, Raigarh (C.G.) Phone No. 07762-227033	YES
3.	Mission hospital	100	Chiranjeev Das Nagar, Kelo Vihar Colony, Raigarh (C.G.) Phone No. 07762-223097	YES
4.	Govt. Hospital	100	NayaGanj, Raigarh, (C.G.) Phone No. 07762-222979	YES
5.	RED CROSS SOCIETY	50	NayaGanj, Raigarh, (C.G.) Phone No. 07762-225750	YES
6.	JMJ Morning Star Hospital	100	Chiranjeev Das Nagar, Raigarh (C.G.) Phone No. 07762-223097	YES
7.	Balaji Metro Hospital	50	Near Pahad Mandir Road, Kouhakunda, Chakradhar Nagar, Raigarh (C.G.) Phone No. 94255-70727	YES

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

LIST OF IMPORTANT STATE/LOCAL AUTHORITY

S.No.	Description	Place	Phone No.
01	Collector	Raigarh	07762-222102 222101-R
02	Supdt. of Police / Control Room	Raigarh	100,223333 222244-R
03	Nearest Police Thana	Punjipathara	100
04	Chief Inspector Of Factories, Labor Commissioner.	Block 3 rd Second Floor, Indrawati Bhawan New Raipur (C.G.)	0771 2443515
05	Dy. Chief Inspector Of Factories (I.H.& Safety) - Raigarh	Chakradharnagar Chowk, Raigarh	07762-223035
06	Fire Brigade	Raigarh JSPL	101,222911 227001
07	Hospitals	Fortis O.P. Jindal Hospital Kirodimal Govt. Hospital Shri Balaji Metro Hospital Sanjeevani Nursing Home	79473 43038 07762-222979 077622 20222 94252 75365
08	Ambulance	Rotary Club of Raigarh Steel City Sanjivani Nursing Home Balaji Metro Hospital Maa Mangala Ambulance	231021 79473 43038 79471 29640 79473 43126

ON SITE EMERGENCY PLAN 2025
M/s SAMBHAVI ISPAT PRIVATE LIMITED
Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.)

VERIFICATION

This is to certify that. The documents and information incorporated in the On-Site Emergency Plan manual of **M/s SAMBHAVI ISPAT PRIVATE LIMITED** Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.) have been personally verified and signed on each page by me.

The On-Site EMERGENCY PL AN manual is submitted herewith to the Director/CIF, Industrial Health & Safety, and Govt. of C.G. Seeking his kind approval and Permission to implement the same **M/s SAMBHAVI ISPAT PRIVATE LIMITED** Village - Gerwani, Tehsil & Distt. – Raigarh (C.G.) We hereby acknowledge revising and updating the On Site Emergency Plan manual In the event of any change (s) in the technology, infrastructure, plant process, Machinery (s). Building (s). Storage and manufacturing process and or deletion or Addition made on account of the above. And shall submit the same to the C.I.F./Director, Industrial Health & Safety, Govt. of C.G. for his approval.

We further undertake that in the event of closure of the factory shall be disposed-off In a safe and sound manner without affecting risk and danger to the human beings and To the environment and, shall intimate the action taken in this regard, to the C.I.F/Directorate of Industrial Health & Safety, Govt. of C.G.

Sign of Occupier

M.S.D.S. OF LIQUEFIED PETROLEUM GAS (L.P.G.)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LPG

Synonyms: Liquefied Petroleum Gases; Olefins; Alky Feed; Stabilizer Bottoms, 888100004454

MSDS Number: 888100004454 **Versions:** 1.2

Product Use Description: Fuel, Refinery intermediate Stream

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Regulatory status: This material is considered hazardous by the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200).

Signal Word: DANGER

Hazard Summary:

High concentrations may exclude oxygen and cause dizziness and suffocation. Contact with liquid or cold vapor may cause frostbite or freeze burn. Simple asphyxiate. Reduces oxygen available for breathing. Exposure to concentrations above 10% of the LEL may cause a general central nervous system (CNS) Depression typical of anesthetic gases or intoxicants. Aliphatic hydrocarbon gases may build up in confined spaces and may cause dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in narcosis, unconsciousness, and possibly lead to death.

Potential Health Effects

Eyes: May cause mild, short-lasting discomfort to eyes. Rapid release of gases which are liquids under pressure may cause frost burns of exposed tissues (skin, eye) due to evaporative cooling.

Skin: Negligible irritation to skin at ambient temperatures. Rapid release of gases which are liquids under pressure may cause frost burns of exposed tissues (skin, eye) due to evaporative cooling.

Chronic Exposure: Chronic Effects and/or Target Organ Data: May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Exposure to rapidly Specific Hazard

Reactivity Health

NFPA: Flammability

0

FLAMMABILITY PHYSICAL

4

0

1

HMIS III:

0 = Insignificant, 1 = Slight, 2 = Moderate,

3 = High, 4 = Extreme

Expanding gas or vaporizing liquid may cause frostbite (cold burn). Simple asphyxiate: Acts by displacing oxygen in the lungs thereby diminishing the supply of oxygen available to the blood and tissues. Symptoms include shortness of breath, rapid heart rate, in coordination, lethargy, headaches, nausea, vomiting, and disorientation. Continued lack of oxygen may result in convulsions, loss of consciousness and death. Oxygen in enclosed spaces should be maintained at normal atmospheric percentage (about 21 percent by volume).

Target Organs: Eyes, Skin

Physical and chemical hazards: Flammable Gas. Material can release vapors that readily form flammable mixtures. Vapor accumulation could flash and/or explode if ignited. Frostbite hazard - rapidly expanding gas or liquid may cause frostbite Material can accumulate static charges which may cause an incendiary electrical discharge.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component CAS-No. Weight

% Propane 74-98-6 60 - 90%

Butane 106-97-8 10 - 30%

Propane; Propylene 115-07-1 1 - 5%

Isobutene 75-28-5 1 - 5%

SECTION 4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Give oxygen. Seek medical attention immediately.

Skin contact: For exposure to liquid, immediately warm frostbite area with warm water not to exceed 105°F (41°C). In case of massive exposure, remove contaminated clothing while showering with warm water. Obtain medical attention.

Eye contact: Immediately flush eyes thoroughly with warm water for at least 15 minutes. Remove contact lenses. Rinse with water. Take victim immediately to hospital. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. If eye irritation persists, seek medical attention.

Ingestion: Ingestion is considered unlikely. If swallowed, obtain medical attention.

Notes to physician: Symptoms: Dizziness, Headache, Nausea, Frostbite, Vomiting, and Discomfort
Hazards: This material may be a cardiac sensitizer; avoid the use of epinephrine.

Treatment: Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5. FIRE-FIGHTING MEASURES

Form: Liquefied gas

Flash point: -104 °C (-155 °F)

Lower explosive limit: 2.1 %

(V) Upper explosive limit: 9.5
% (V)

Suitable extinguishing media: Water spray, Dry chemical, Foam, Carbon dioxide (CO₂), Fire should not be extinguished unless flow of gas can be immediately stopped.

Specific hazards during fire fighting: Flammable Gas. Vapours are heavier than air and may travel long distances to a point of ignition and flash back.

Special protective equipment for fire-fighters: Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA-approved pressure demand self-contained breathing apparatus with full face piece and full protective clothing.

Further information: Allow the fire to burn under controlled conditions. Fire should not be extinguished unless flow of gas can be immediately stopped. Stop leak if you can do it without risk. Evacuate area. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop a leak. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Use water to cool equipment, surfaces and containers exposed to fire and excessive heat. For large fire the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Warn or evacuate occupants in surrounding and downwind areas if required due to toxicity or flammability of the material. Emergency eye wash capability should be available in the vicinity of any potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Consider disposal of contaminated clothing rather than laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

Environmental precautions: Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up: Land Spill: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). CAUTION: When in contact with refrigerated/cryogenic liquids, many materials become brittle and are likely to break without warning. Allow liquid to evaporate from the surface. All equipment used when handling the product must be grounded. Do not direct water at spill or source of leak. Do not touch or walk through spilled material. If possible, turn leaking containers so that gas escapes rather than liquid. Isolate area until gas has dispersed. Prevent spreading of vapors through sewers, ventilation systems and confined areas. Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Water Spill: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Allow liquid to evaporate from the surface.

SECTION 7. HANDLING AND STORAGE

Handling: Keep away from fire, sparks and heated surfaces. No smoking near areas where material is stored or handled.

Advice on protection against fire and explosion: Hydrocarbon liquids including this product can act as a non-conductive flammable liquid (or static accumulators), and may form ignitable vapor-air mixtures in storage tanks or other containers. Precautions to prevent static-initiated fire or explosion during transfer, storage or handling, include but are not limited to these examples: (1) Ground and bond containers during product transfers. Grounding and bonding may not be adequate protection to prevent ignition or explosion of hydrocarbon liquids and vapors that are static accumulators. (2) Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil or diesel) is loaded into tanks previously containing low flash point products (such as gasoline or naphtha). (3) Storage tank level floats must be effectively bonded.

For more information on precautions to prevent static-initiated fire or explosion, see NFPA 77, Recommended Practice on Static Electricity (2007), and API Recommended Practice 2003, Protection against Ignitions Arising out of Static, Lightning, and Stray Currents (2008).

Dust explosion class: Not applicable

Requirements for storage

Areas and containers: Keep away from flame, sparks, excessive temperatures and open flame. Use approved containers. Keep containers closed and clearly labeled. Empty or partially full product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose containers to sources of ignition. Store in a well-ventilated area. The storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks in Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks".

Advice on common storage: Keep away from food, drink and animal feed. Incompatible with oxidizing agents. Incompatible with acids.

Other data: Keep in a dry place. Keep away from heat. No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

List Components CAS-No. Type: Value

OSHA Z1 Propane 74-98-6 PEL 1,000 ppm 1,800 mg/m³

ACGIH Propane 74-98-6 TWA 1,000 ppm

Butane 106-97-8 TWA 1,000 ppm

Isobutane 75-28-5 TWA 1,000 ppm

Protective measures: Avoid contact with skin. When using do not smoke. Keep out of reach of children. Keep away from heat and flame.

Engineering measures: Use only intrinsically safe electrical equipment approved for use in classified areas.

Eye protection: Goggles and face shield as needed to prevent eye and face contact.

Hand protection: Neoprene gloves any specific glove information provided is based on published literature and glove manufacturer data. Work conditions can greatly affect glove durability; inspect and replace worn or damaged gloves. If product is hot, thermally protective gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves.

Skin and body protection: Where contact with liquid may occur, wear apron and face shield.

Respiratory protection: NIOSH/MSHA approved positive-pressure self-contained breathing apparatus (SCBA) or Type C positive-pressure supplied air with escape bottle must be used for gas concentrations above occupational exposure limits, for potential of uncontrolled release, if exposure levels are not known, or in an oxygen-deficient atmosphere. Refer to OSHA 29 CFR 1910.134, ANSI Z88.2-1992, and NIOSH Respirator Decision Logic and the manufacturer for additional guidance on respiratory protection selection.

Work / Hygiene practices: Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquefied gas

Appearance: Colorless gas. Cold vapor cloud may be white but the lack of visible gas cloud does not indicate absence of gas. A colorless liquid under pressure.

Odor : Odourless

Flash point: -104 °C (-155 °F)

Thermal decomposition: Heating may cause a fire or explosion., Material does not decompose at ambient temperatures. Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke) are possible hazardous decomposition products. **Lower explosive limit:** 2.1 % (V)

Upper explosive limit: 9.5 % (V)

pH: Not applicable

Freezing point: No data available

Boiling point: -40 °C(-40 °F)

Vapour Pressure: 23 to 132 psig at 21.1 °C (70 °F)

Liquid Density: 1.6 g/cm³

Water solubility: Negligible

Viscosity, kinematic: No data available

Percent Volatiles: 100 %

Conductivity

(Conductivity can be reduced by environmental factors such as a decrease in temperature)

Hydrocarbon liquids without static dissipater additive may have conductivity below 1 picoSiemens per meter (pS/m). The highest electro-static ignition risks are associated with "ultra-low conductivities" below 5 pS/m. See Section 7 for sources of information on defining safe loading and handling procedures for low conductivity products.

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid: This product is stable at ambient temperature and atmospheric pressure. Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources.

Materials to avoid: Strong acids. Copper. Explosion hazard when exposed to nickel carbonyl/oxygen mixture. Strong Oxidizers.

Hazardous decomposition

Products: Hydrocarbons. Smoke. Carbon oxides.

Thermal decomposition: Heating may cause a fire or explosion. Material does not decompose at ambient temperatures. Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke) are possible hazardous decomposition products.

Hazardous reactions: Vapors may form explosive mixture with air. Hazardous polymerization does not occur. Note: No decomposition if used as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Carcinogenicity

NTP: No component of this product which is present at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product which is present at levels greater than or equal to 0.1 % is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product which is present at levels greater than or equal to 0.1 % is identified as a carcinogen or potential carcinogen by OSHA.

CA Prop 65: This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

Skin irritation: Irritating to skin.

Rapid release of gases which are liquids under pressure may cause frost burns of exposed tissues (skin, eye) due to evaporative cooling.

Eye irritation: slight irritation Rapid release of gases which are liquids under pressure may cause frost burns of exposed tissues (skin, eye) due to evaporative cooling.

Further information: Chronic Effects And/Or Target Organ Data: May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite (cold burn). Simple asphyxiant: Acts by displacing oxygen in the lungs thereby diminishing the supply of oxygen available to the blood and tissues. Symptoms include shortness of breath, rapid heart rate, incoordination, lethargy, headaches, nausea, vomiting, and disorientation. Continued lack of oxygen may result in convulsions, loss of consciousness and death. Since exercise increases the tissue need for oxygen, symptoms will occur more quickly during exertion in an oxygen-deficient environment. Oxygen in enclosed spaces should be maintained at normal atmospheric percentage (about 21 percent by volume).

Component:

Propane 74-98-6 Skin irritation: Classification: Irritating to skin. Result: Skin irritation

Eye irritation: Classification: Irritating to eyes. Result: Mild eye irritation

Propane; Propylene 115-07-1 Acute inhalation toxicity: LC50 rat Dose: 658 mg/l

Exposure time: 4 h

Eye irritation: Classification: Irritating to eyes. Result: Mild eye irritation

SECTION 12. ECOLOGICAL INFORMATION

Bioaccumulation : Inherently biodegradable. Accumulation in terrestrial organisms is unlikely.

Toxicity to fish : Not expected to be harmful to aquatic organisms.

Additional ecological Information : Liquid release is only expected to cause localized, non-persistent environmental damage, such as freezing. Biodegradation of this product may occur in soil and water. Volatilization is expected to be the most important removal process in soil and water. This product is expected to exist entirely in the vapor phase in ambient air.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal : Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14. TRANSPORT INFORMATION CFR

Proper shipping name: PETROLEUM GASES,

LIQUEFIED UN-No. : 1075

Class : 2.1

Packing group: **TDG**

Proper shipping name : PETROLEUM GASES,

LIQUEFIED UN-No. : UN1075

Class : 2.1

Packing group : **IATA Cargo Transport**

UN UN-No. : UN1075

Description of the goods : PETROLEUM GASES,

LIQUEFIED Class : 2.1

ICAO-Labels : 2.1

Packing instruction (cargo aircraft) : 200

IATA Passenger Transport

UN-No. : UN1075

Class : 2.1

Not permitted for transport

IMDG-Code

UN-No. : UN 1075

Description of the goods : PETROLEUM GASES, LIQUEFIED Class : 2.1

IMDG-Labels : 2.1

EmS Number : F-D S-U Marine pollutant : No

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Flammable gas Moderate skin irritant

Moderate eye irritant

TSCA Status : On TSCA Inventory

DSL Status : All components of this product are on the Canadian DSL list. SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard

PENN RTK US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

Components CAS-No.

Propane 74-98-6

Butane 106-97-8

Propane; Propylene 115-07-1

Isobutene 75-28-5

MASS RTK US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of
Massachusetts Regulations Section 670.000)

Components CAS-No.

Propane 74-98-6

Butane 106-97-8

Propane; Propylene 115-07-1

Isobutene 75-28-5

NJ RTK US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section
34:5A-5)

Components CAS-No.

Propane 74-98-6

Butane 106-97-8

Propene; Propylene 115-07-1

Isobutane 75-28-5

SARA III US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic
Chemicals (40 CFR 372.65) - Supplier Notification Required

Components CAS-No.

Propane; Propylene 115-07-1

California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer,
birth, or any other reproductive defects.

CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil.
Fractions of crude oil, and products (both finished and intermediate) from the crude oil refining process and
any indigenous components of such from the CERCLA Section 103 reporting requirements. However **CERCLA**

SECTION 103 and SARA SECTION 304 (RELEASE TO THE ENVIROMENT)

The, other federal reporting requirements, including SARA Section 304, as well as the Clean Water Act may
still apply.

SECTION 16. OTHER INFORMATION

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and
belief at the date of its publication. The information given is designed only as guidance for safe handling, use,
processing, storage, transportation, disposal and release and is not to be considered a warranty or quality
specification. The information relates only to the specific material designated and may not be valid for such
material used in combination with any other materials or in any process, unless specified in the text.

M.S.D.S. OXYGEN

Product Name: Oxygen **CAS:** 7782-44-7

Oxygen; Oxygen, compressed (D.O.T.) **DOT I.D No.:** UN 1072

Chemical Name and Synonyms:

Oxygen **DOT Hazard Class:** Division 2.2

Formula: O₂ **Chemical Family:** Oxidizer

HEALTH HAZARD DATA

Time Weighted Average Exposure Limit:

None established (ACGIH 1994-1995). Oxygen is the “vital element” in the atmosphere in which we live and breathe.

Symptoms of Exposure:

Breathing high concentrations (greater than 75 molar percent) causes symptoms of hyperoxia which includes cramps, nausea, dizziness, hypothermia, amblyopia, respiratory difficulties, bradycardia, fainting spells, and convulsions capable of leading to death. For additional information on hyperoxia, see Compressed Gas Association’s Pamphlet P-14.

Toxicological Properties:

- The property is that hyperoxia which leads to pneumonia. Concentrations between 25 and 75 molar percent present a risk of inflammation of organic matter in the body.
- Oxygen is not listed in the LARC, NTP or by OSHA as a carcinogen or potential carcinogen.
- Persons in ill health where such illness would be aggravated by exposure to oxygen should not be allowed to work with or handle this product.

Recommended First Aid Treatment:

Prompt medical attention is mandatory in all cases of overexposure to oxygen. Rescue personnel should be cognizant of extreme fire hazard associated with oxygen-rich atmosphere.

Product Name: Oxygen **CAS:** 7782-44-7

Oxygen; Oxygen, compressed (D.O.T.) **DOT I.D No.:** UN 1072

Chemical Name and Synonyms:

Oxygen **DOT Hazard Class:** Division 2.2

Formula: O₂ **Chemical Family:** Oxidizer

Material Safety Data Sheet: Oxygen

Conscious persons should be assisted to an uncontaminated area and breathe fresh air. They should be kept warm and quiet. The physician should be informed that the victim is experiencing hyperoxia.

Unconscious persons should be moved to an uncontaminated area and given assisted respiration. When breathing has been restored, treatment should be as above. Continues treatment should be symptomatic and supportive.

Hazardous Mixtures of other Liquids, Solids or Gases:

Oxygen vigorously accelerates combustion. Contact with all flammable materials should be avoided. Some materials that are not flammable in air will burn in pure oxygen or oxygen enriched Atmospheres. PHYSICAL DATA

Boiling Point: -297.3°F (-182.9°C) **Liquid Density at Boiling Point:** 71.23 lb/ft³ (1141 kg/m³)

Vapor Pressure @ 70°F (21.1°C) = Above the critical temperature of -181.1°F (-118.4°C)

Gas Density at 70°F, 1 atm .0725 lb/ft³ (1.161 kg/m³)

Solubility in Water: Slightly **Freezing Point:** -361.8°F (-218.8°C) **Evaporation Rate:** N/A (Gas) **Specific Gravity (AIR=1) @ 70°F (21.1°C)** = 1.11

Appearance and Odor: Colorless, odorless gas **FIRE AND EXPLOSION HAZARD DATA**

Flash Point (Method used): N/A Gas

Auto Ignition Temperature: N/A

Flammable Limits % by Volume: LEL N/A, UEL N/A

Extinguishing Media: Copious quantities of water for fires with oxygen as the oxidizer. 1

Electrical Classification: Non hazardous

Special Fire fighting Procedures: If possible, stop the flow of oxygen, which is supporting the fire. If cylinders are involved in a fire, safely relocate or keep cool with water spray.

Unusual Fire and Explosion Hazards: Vigorously accelerates combustion. REACTIVITY DATA

Stability: Stable

Incompatibility (Materials to Avoid): None

Hazardous Decomposition Products: All flammable materials

Hazardous Polymerization: Will not occur

Conditions to Avoid: None SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

Evacuate all personnel from affected area. Use appropriate protective equipment. If leak is in user's equipment, be certain to purge piping with an inert gas to attempting repairs. If leak is in container or container valve, contact your closest supplier location or call the emergency telephone number listed herein.

Waste disposal methods:

Do not attempt to dispose of waste or unused quantities. Return in the shipping container properly labeled, with any valve outlet plugs or caps secured and valve protection cap in place to your supplier. For emergency disposal assistance, contact your closest supplier location or call the emergency telephone number listed herein.

SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify type): Positive pressure air line with mask or self-contained breathing apparatus should be available for emergency use.

Ventilation: See Local Exhaust

Local Exhaust: To prevent accumulation above 25 molar percent.

Protective Gloves: As required; any material

Eye Protection: Safety goggles or glasses

Other Protective Equipment: Safety shoes, safety shower **SPECIAL PRECAUTIONS**

Special Labeling Information:

DOT Shipping Name: Oxygen, Compressed DOT Hazard Class: Division 2.2

DOT Shipping Label: Nonflammable Gas

I.D. No.: UN 1072

Special Handling Recommendation:

Use only in well-ventilated areas. Valve protection caps and valve outlet threaded plugs must remain in place unless container is secured with valve outlet piped to use point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure-reducing regulator when connecting cylinder to lower pressure (<3,000 psig) piping or systems. Do not heat cylinder by any means to increase the discharge rate of product from the cylinder. Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder. For additional handling recommendations, consult Compressed Gas Association's Pamphlets P-1, P-14, and G-4

Special Storage Recommendations:

Protect cylinders from physical damage. Store in cool, dry, well-ventilated area away from heavily trafficked areas and emergency exits and away from full or empty stored cylinders which contain flammable products. Do not allow the temperature where cylinders are stored to exceed 125F (52C). Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Use a "first in -first out" inventory system to prevent full cylinders being stored for excessive periods of time. For additional storage recommendations, consult Compressed Gas Association's Pamphlets P-1, P-i4, and G-4.

Other Recommendations or Precautions:

Oxygen should not be used as a substitute for compressed air in pneumatic equipment since this type generally contains flammable lubricants. Equipment to contain oxygen must be "cleaned for oxygen service." See Compressed Gas Association Pamphlet G- 4.1. Compressed gas cylinders should not be refilled except by qualified producers of compressed gases.

SSpecial Packaging Recommendations:

Carbon steels and low alloy steels are acceptable for use at lower pressures. For high pressure applications use stainless steels, copper and its alloys, nickel and its alloys, brass, bronze, silicon alloys, Monel®, Inconel®, or beryllium. Lead and silver or lead and tin alloys are good casketing materials. Teflon® and Kel-F® are the preferred nonmetal gaskets. Special Note: It should be recognized that the ignition temperature of metals and nonmetals in pure oxygen service decreases with increasing oxygen pressure.

www.isocinfo.com

M.S.D.S. OF FURNACE OIL (FO)

Trade Name	:	Furnace Oil (FO)
Hazardous Ingredient	:	No any (only combustible Ingredient are there)
Health	:	Normally no health hazard.
Fire	:	Moderate Fire Hazard flammable but not much volatile.
1. Physical properties:		
Characteristic Nature	:	It is in thick liquid form.
Appearance, Colour & Odour	:	It is black colour liquid with non perceptible odour.
Flash point	:	62° C - 720° C
Specific Gravity	:	0.945 at 20° C
Miscibility	:	Not soluble in water.
2. Fire and Explosive Hazard:		
Flammable limits in air by vol.	:	Upper 8.7 and Lower 1.5
Extinguishing Media	:	Foam/DCP/Halon.
Special Fire Fighting	:	Containers keep cool by spraying with water if exposed to fire, do not use water jet. Extinguish fire by foam DCP or Halon, never by water spray.
Unusual Fire & Explosion:	Confirm	explosive mixture with air particularly in empty Unclean receptacles.
Miscibility	:	Not soluble in water
3. Health Hazard Information.		
Routes of exposure inhalation	:	Normally irritating at normal Temp.
Skin	:	Possible.
Skin absorption	:	Possible.
Eye contact	:	Possible.
Ingestion	:	Possible.
Effects of overexposure or acute over exposure	:	Remove to fresh air and remove soaked clothing. Wash the affected part.
Specific Gravity	:	0.945 at 20° C
Miscibility	:	Not soluble in water
M.S.D.S. OF FURNES OIL CCONTINUE		
4. Emergency and First Aid Procedure.		
Eyes	:	Wash with plenty of water.
Skin	:	Wash with plenty of water.
5. Reactivity Data.:		
Conditions contributing to Instability	:	Nil.
Incompatibility	:	Nil.
Hazardous decomposition products	:	Nil.
Conditions contributing to hazardous Polymerization.	:	Nil.
6. Leakage spillage:		
Steps to be taken if material is released or spilled.		
- No naked, light, no smoking. - Mark road and warn other road users. - Keep public away from danger area. - Use explosion proof electrical equipment. - Keep unwind. - Shut off leaks without risk. - Contain leaking liquid with sand or earth.		
7. Disposal of Tank Waist:		
Tanks are generally be cleaned after the period of 1 or 2 year the waist in the form of mud, this waist will carry to the remote place and if possible burnt and be merged deep in earth.		

FORM 21(Annexure)
[Prescribed Under Rule(19)]

Health Register

(In respect of persons employed in occupation declared to be dangerous operation under section 87)

PRE-EMPLOYMENT & PERIODIC MEDICAL EXAMINATION

Name : Rasham Rambir
Employee No. _____

Age (Years) : 26
Department : _____

✓ Date : 19/04/24
Male / Female : _____
Designation : _____

(1) GENERAL EXAMINATION:

Height 160 Cm. Weight 58 Kg. BMI _____
Chest Inspiration: _____ Cm. Expiration: _____ Cm.
BUILT-Average/Strong/Poor. _____
Throat _____ Tongue _____ Tonsils _____
Teeth (N) Gums (N) Thyroid (N)
Lymph Nodes _____
Additional Findings _____

(2) CARDIO-VASCULAR SYSTEM

Pulse: 90 /Min. Regular/Irregular/Peripheral Pulse-Felt/Not Felt
B.P.: 120/93 mm of Hg. _____
Heart Sound S1 S2 P
Murmur, If Any: _____
Additional Finding(S), If Any: No

(3) RESPIRATORY SYSTEM:P

Shape Of Chest: _____
Chest Movements: Normal
Trachea: _____
Breath Sounds: _____

(4) GASTRO-INTESTINAL SYSTEM

Liver: NP Spleen: NP
Any Abdominal Lumps: No

(5) EXAMINATION OF EYES:

External Exam: Normal Squint No
Nystagmus: ✓
Colour Vision-Normal/Defective _____
Fundus(L) _____ (R) _____
Individual Colour Identification-Normal/Defective _____
Distant Vision(Without Glasses) _____

Right 6/6 Left 6/6
Near Vision(Without Glasses) _____
Right NG Left NG
With Glasses Right _____ Left _____
Night Blindness:(Nyctalopia): No

(6) EXAMINATION OF EAR, NOSE & THROAT

External Exam: _____

(7) GENITOURINARY SYSTEM:

Hernia: _____ Hydrocele _____ Vepricocoele _____
Cryptorchidism: (N) Phimosis _____
Varicose Veins _____ Signs Of STD (N)

Other Examination For FEMALES:

Menstrual History
Menarche At ----- Yrs. Gravida -----
LMP -----
Obstetric History
PARA -----
Menstrual Irregularity If Any: -----

(8) LAB INVESTIGATIONS:

URINE: Albumin Nil Sugar Nil Microscopy ----- Stool -----
HAEMOGRAM

Blood Group A Rh factor +ve Hb 13.5 TLC 6580 RBC 5.01
DLC ----- PLEMB ----- Platelets Count 2.32

LIPID PROFILE

Serum Cholesterol 165 ;S/Triglycerides 121.6
HDL 48.2 ;LDL 92.48

HEPATIC PROFILE

SGPT 30.5 ;SGOT: 21.3
Alkaline Phosphatase: 78

RENAL PROFILE:

Blood Urea 28.5 ;S/Creatinine: 0.68

METABOLIC:

Blood Sugar-F ----- ;Blood Sugar-PP: -----
Uric Acid 5.1 ; RBS: 98.6

(9) OTHER INVESTIGATIONS:

X-ray Chest(In Normal persons once in three years -----)

In case of any abnormality x-ray can be done at shorter intervals)

ECG(In case of any abnormality further tests should be carried out) -----

Ultra Sound Whole Abdomen(In normal persons once in three years in case of any abnormality can be done at shorter intervals)

Others -----

(10) PULMONARY FUNCTION TEST

	FVC	FEV 1	FEV 1/FVC
Predicted	<u>3.15</u>	<u>2.72</u>	<u>86.35</u>
Measured	<u>2.77</u>	<u>2.63</u>	<u>94.95</u>
% of predicted	<u>88</u>	<u>97</u>	<u>110</u>

Remarks: -----

(11) Audiometry Examination-PTA of both ears at frequency of 125,250,500,1000,2000,4000,8000,cycles per second -----

(12) Medical Examination of canteen staff

- a- Blood examination for venereal disease and routine blood examination.
- b- Stool and urine examination for worm infection.
- c- Screening for skin diseases(Scabies and others)
- d- x-ray and other tests for T.B.

(13) Details of other specific medical examination carried out as mentioned in the respective schedules of rule 107 of C.G. Factories rules 1962-

Dr. Aharnish Agrawal

M.B.B.S. D.Ortho

Reg. No. CGMC 7691/2017

Signature (with Date) of
Factory Medical Officer

Dr. Sonali Sonali
MBBS
REG NO. 201457/2012
DIAGNOSTICS

ANUPAM DIAGNOSTICS

KOTRA ROAD, RAIGARH (C.G.)

Patient: ROSHAN RANBIR

Refd. By:

Pred. Eqns: RECORDERS

Date : 19-Apr-2024 10:22 AM

Age : 26 Yrs

Height : 160 Cms

Weight : 58 Kgs

ID : 496

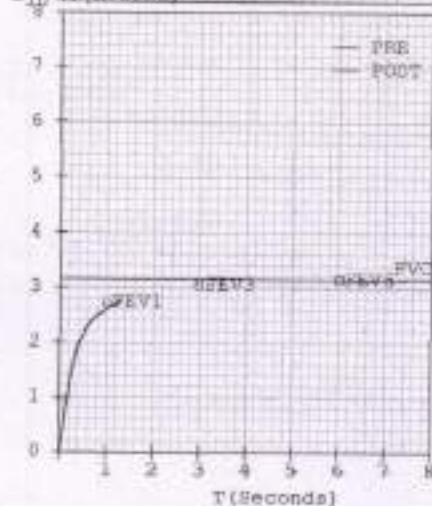
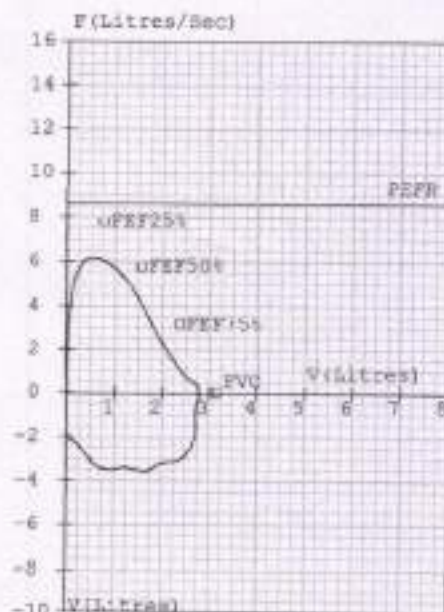
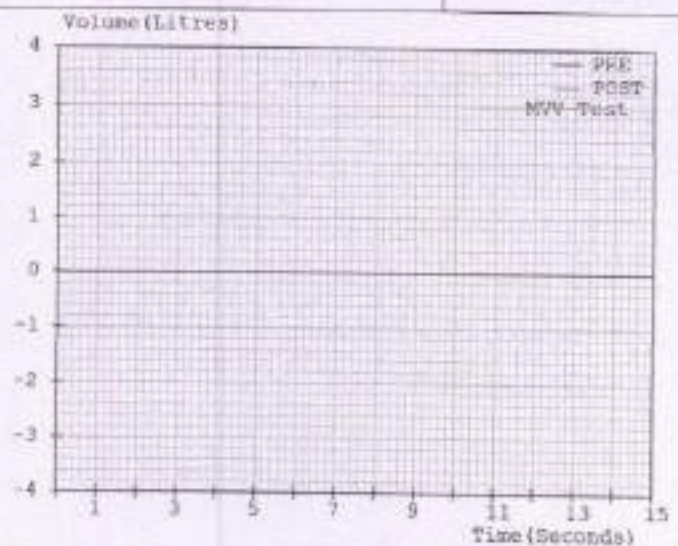
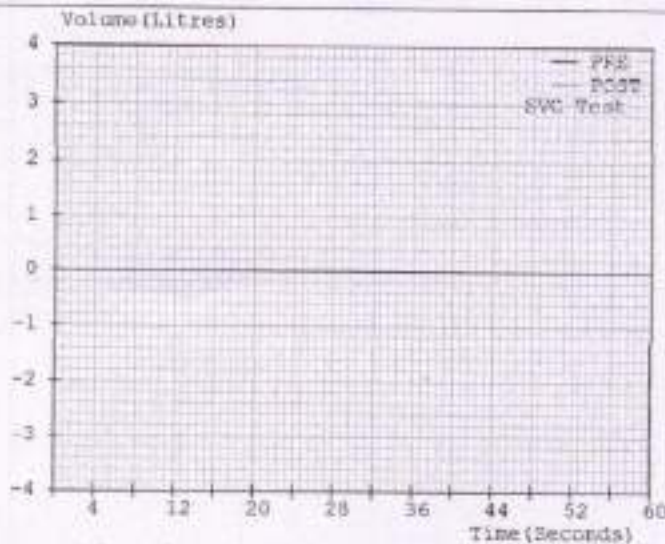
Gender : Male

Smoker : No

Eth. Corr: 100

Temp :

RMS



Spirometry Results

Parameter	Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC (L)	03.15	02.77	088	---	---	---
FEV1 (L)	02.72	02.63	097	---	---	---
FEV1/FVC (%)	86.35	94.95	110	---	---	---
FEF25-75 (L/s)	04.38	03.97	091	---	---	---
PEFR (L/s)	08.63	06.10	071	---	---	---
FIVC (L)	---	02.87	---	---	---	---
FEV.5 (L)	---	02.15	---	---	---	---
FEV3 (L)	03.05	02.77	091	---	---	---
PIFR (L/s)	---	03.52	---	---	---	---
PEF75-85 (L/s)	---	01.48	---	---	---	---
PEF.2-1.2 (L/s)	07.33	05.77	079	---	---	---
PEF 25% (L/s)	07.01	06.06	078	---	---	---
PEF 50% (L/s)	05.78	04.76	082	---	---	---
PEF 75% (L/s)	03.15	02.00	063	---	---	---
FEV.5/FVC (%)	---	77.62	---	---	---	---
FEV3/FVC (%)	96.83	100.00	103	---	---	---
PET (Sec)	---	01.36	---	---	---	---
ExptTime (Sec)	---	00.09	---	---	---	---
Lung Age (Yrs)	026	027	104	---	---	---
FEV6 (L)	03.15	---	---	---	---	---
FIF 25% (L/s)	---	03.20	---	---	---	---
FIF 50% (L/s)	---	03.37	---	---	---	---
FIF 75% (L/s)	---	03.10	---	---	---	---
SVC (L)	---	---	---	---	---	---
ERV (L)	01.45	---	---	---	---	---
IRV (L)	---	---	---	---	---	---
VE (L/min)	---	---	---	---	---	---
RI (l/min)	---	---	---	---	---	---
Ti (sec)	---	---	---	---	---	---
Te (sec)	---	---	---	---	---	---
VT (L)	---	---	---	---	---	---
VT/Ti	---	---	---	---	---	---
Ti/Ttot	---	---	---	---	---	---
IC (L)	---	---	---	---	---	---
MVV (L/min)	132	---	---	---	---	---
MBf (l/min)	---	---	---	---	---	---
MVT (L)	---	---	---	---	---	---

Dr. Sonal Kedia

MBBS, MD

REG NO. CGMC/4457/2012

ANUPAM DIAGNOSTICS

KOTRA ROAD RAIGARH (C.G.)



अनुपम डायग्नोस्टिक्स

Believe in the Best

डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एच.आई. हॉस्पिटल, रायपुर



राजमहल रोड, कोतरा रोड, रायगढ़ (छ.ग.) - 496001

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुदी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021
अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

टाटा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. ROSHAN RANBIR

Patient ID : S01

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:25 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:34 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

Lft, Liver Function Test

Bilirubin - Total	0.48	0.2-1.2	mg/dL
Bilirubin - Direct	0.20	0.2-1.0	mg/dL
Bilirubin - Indirect	0.28	0.2-0.8	mg/dL
SGOT	21.3	0-35	U/L
SGPT	30.5	0-45	U/L
Alkaline phosphatase	78	40-128	U/L
Total Protein	7.56	6.4 - 8.3	g/dL
Albumin	4.23	3.2 - 5.2	g/dL
Globulin	3.33	1.8 - 3.6	g/dL
A/G Ratio	1.27	1.2 - 2.2	

Dr. Sonal Kedia
MBBS, MD (PATHOLOGY)
REG NO: CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD, RAIPUR (C.G.)

Dr. Sonal Kedia
M.B.B.S., MD

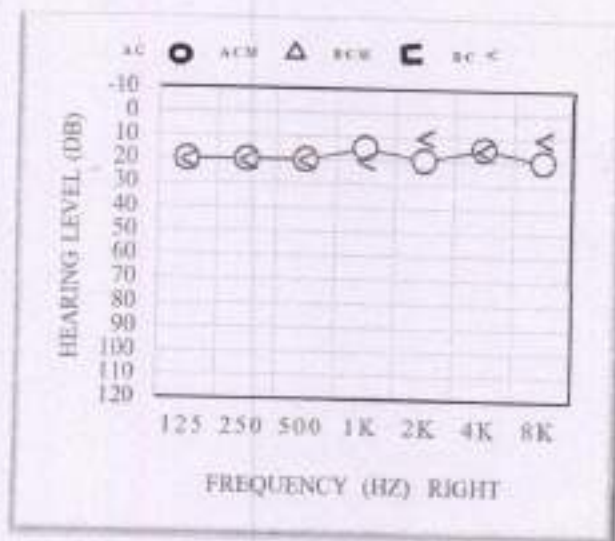
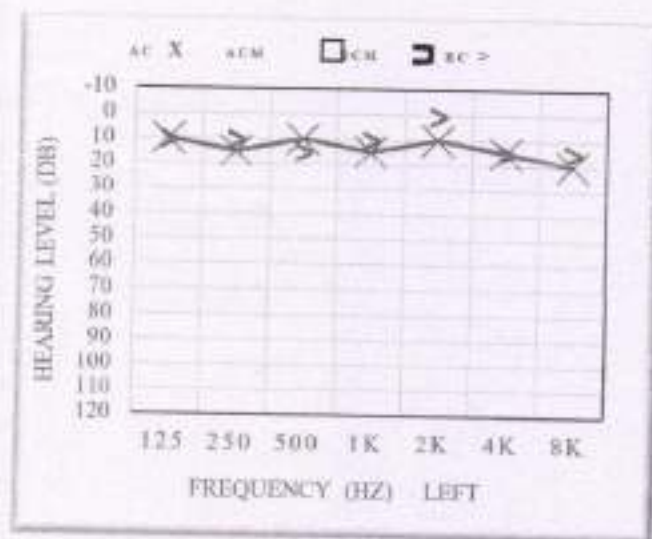
ANUPAM DIAGNOSTICS

AUDIOMETER : ANUPAM DIAGNOSTICS

REF. BY :

DATE:- 19.04.2024
NAME : ROSHAN RANBIR
AGE / SEX 26/M
COMPANY : SHAMBHAVI
S.NO. :

AUDIOGRAM



MODE EAR	AIR CONDUCTION		BONE CONDUCTION		COLOUR CODE	THRESHHOLD IN dB		LEFT	RIGHT
	MASKED	UNMASKED	MASKED	UNMASKED		AIR CONDUCTION			
LEFT	□	x	☞	>	BLUE	BONE CONDUCTION		11.66667	18.33333
RIGHT	△	○	☛	<	RED	SPEECH			
NO RESPONSE : ADD ↓ BELOW THE RESPECTIVE SYMBOLS									

REMARK :

Dr. Sonal Kedia

MBBS, MD

REG NO. DMC4457/2012

ANUPAM DIAGNOSTICS

NOTED BY: RANBIR (C & S)



अनुपम डायग्नोस्टिक्स

Believe in the Best

ISO 9001:2015
CERTIFIED CENTRE

डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्दप्रस्थ अस्पताल, दिल्ली

Ex. Consultant : एम.एच.आई. हॉस्पिटल, रायपुर



राजधानी एडवायस्ड क्लिनिक, एच.एस.डी. मार्ग, रायपुर

सिटी हॉस्पिटल के आगे, कोवरा रोड,
सतीगुडी चौक, रायपुर (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राजा मेमोरियल हॉस्पिटल, मुंबई

रायपुर जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. ROSHAN RANBIR

Patient ID : S01

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:25 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:35 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
kidney function test With Electrolyte			
Urea *	28.5	11 - 40	mg/dL
Blood Urea Nitrogen-BUN*	13.32	5 - 20	mg/dL
Creatinine*	0.68	0.5 - 1.2	mg/dL
Uric Acid*	5.1	3.5 - 7.0	mg/dL

Dr. Sonal Kedia
MBBS, MD (PATHOLOGIST)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTHA ROAD
Dr. Sonal Kedia
M.B.B.S., MD

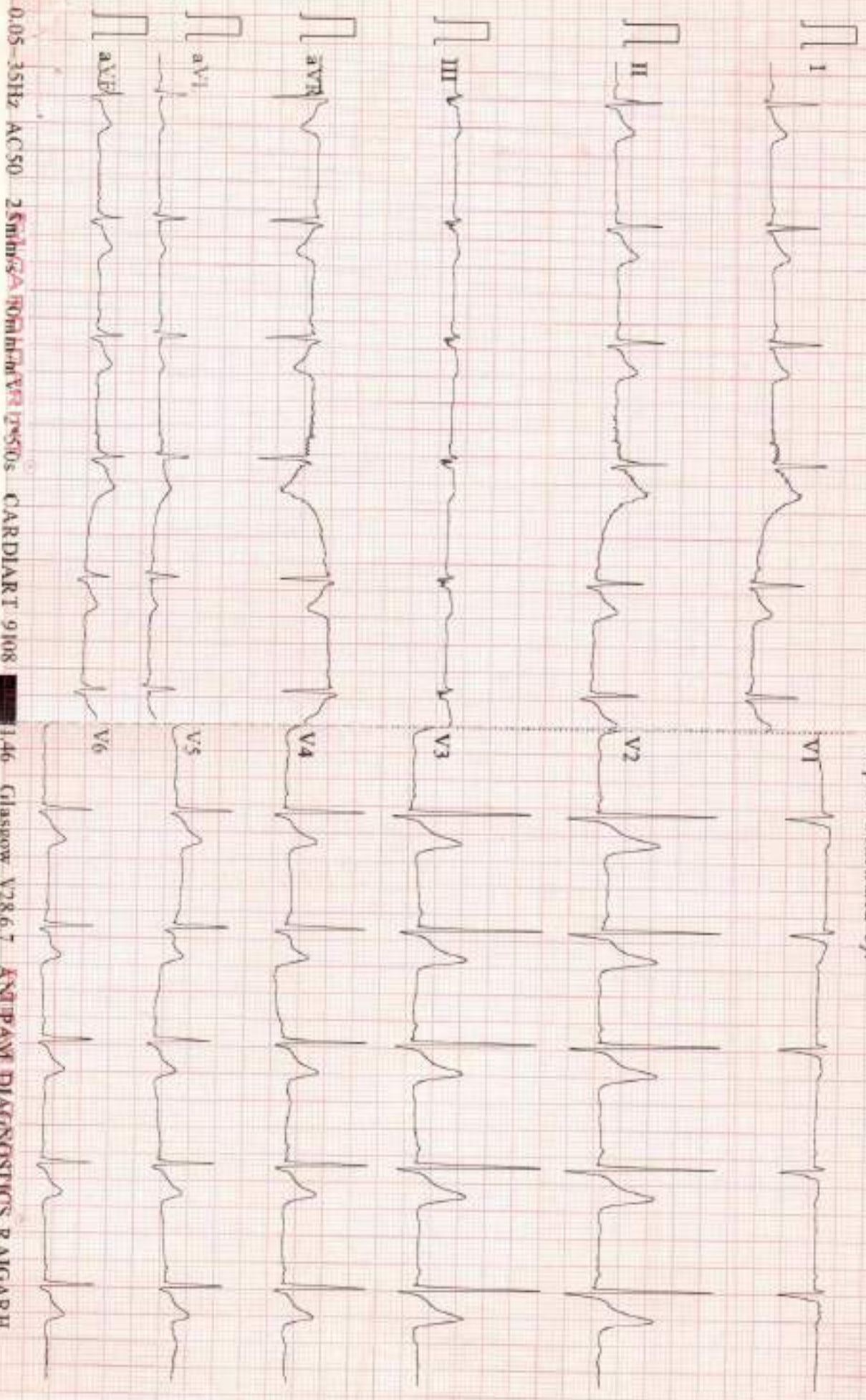
ID: 99681
Foshan Tanveer
Male 26 Years

19-04-2024 11:38:20 AM
HR : 67 bpm
P : 78 ms
PR : 126 ms
QRS : 94 ms
QT/QTcBz : 364/385 ms
PQRST : -427/43
RV5/SVI : 1.000/0.670 mV

Diagnosis Information:
Sinus rhythm
Normal ECG

Ref-Phys :
Report Confirmed by:

Dr. Sagar Khatke
ME 25-45
REG NO. GSNV 4451/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIGARH





अनुपम डायग्नोस्टिक्स

Believe in the Best

ISO 9001:2015
CERTIFIED CENTRE

डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्दप्रस्थ अजीती हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर



जबरापुर एडवायस्ड मेडिकल डायग्नोस्टिक्स का सागर,

सिटी हॉस्पिटल के आगे, कोटरा रोड,
सतीगुडी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राजा गैंगोखर हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. ROSHAN RANBIR

Patient ID : S01

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:25 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:35 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
Cast	NIL	0-0	/HPF
Crystals	NIL		
Bacteria	NIL		
Other	NIL		

Dr. Sonal Kedia
MBBS, MD (PATHOLOGY)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD
Dr. Sonal Kedia
M.B.B.S., MD



अनुपम डायग्नोस्टिक्स

Believe in the Best

ISO 9001:2015
CERTIFIED CENTRE

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अस्पताल, दिल्ली

Ex. Consultant : एम.एन.जी. हॉस्पिटल, रायपुर



जम्हाती पञ्जीयन केन्द्र रायपुर पर रायपुर,

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राजीव गान्धी हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. ROSHAN RANBIR

Patient ID : S01

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:25 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:34 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
PLANT CBC			
Hemoglobin (Hb)*	13.5	13 - 18	gm/dL
Total Leucocytes (WBC) Count*	6580	4000 - 10000	cell/cu.mm
<u>Neutrophils</u>	60	40 - 80	%
<u>Lymphocytes</u>	35	20 - 40	%
Monocyte	3	2-10	%
<u>Eosinophils</u>	02	1 - 6	%
<u>Basophils</u>	0	0 - 1	%
<u>Platelet Count*</u>	2.32	1.5 - 4.5	lakh/cumm
<u>Erythrocyte (RBC) Count*</u>	5.01	4.7 - 6.0	mil/cu.mm
<u>RDW-SD</u>	42.1	37.0 - 54.0	f1
<u>RDW-CV</u>	13.2	11.6 - 14.0	

Dr. Sonal Kedia
MBBS, MD (PATHOLOGY)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD
Dr. Sonal Kedia
M.B.B.S., MD



अनुपम डायग्नोस्टिक्स

Believe in the Best

ISO 9001:2015
CERTIFIED CENTRE

डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अस्पताल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर



जयप्रकाश एम्बेल्डिड चयन द्वारा प्रमाणित केंद्र

सिटी हॉस्पिटल के आगे, कोतरा रोड,
अलीगढ़ चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राष्ट्र वैद्यकीय हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. ROSHAN RANBIR

Patient ID : S01

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:25 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:35 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

Urine Routine Examination

Physical Examination

Volume	30	20 - 50	ml
Colour	pale yellow		
Appearance	Clear	Clear	
Reaction (pH)	6.0		
Specific gravity	1.020	1.003 - 1.030	

Chemical Examination

Urine Glucose (Sugar)	NIL
Urine Protein (Albumin)	NIL
Urine Ketones (Acetone)	Absent
Billurubin	NIL
Urobilinogen	Normal
Nitrite	NIL

Microscopic Examination

Epithelial Cells	2-4	0-2	/HPF
Pus Cell (WBCs)	0-2	0-2	/HPF
RBC	NIL	0-1	/HPF

Dr. Sonal Kedia
MBBS, MD (PATHOLOGY)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD



अनुपम डायग्नोस्टिक्स

Believe in the Best

ISO 9001:2015
CERTIFIED CENTRE

डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्दप्रस्थ अर्वाली हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर



जब्रपाटी पञ्चायत/पर. ८५४ राहा भुवनाग पर रागाग,

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुडी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राहा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. ROSHAN RANBIR

Patient ID : S01

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:25 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 04:56 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

Blood Group ABO & Rh Typing, Blood

Blood Group (ABO typing)	A
RhD Factor (Rh Typing)	Positive

Dr. Sonal Kedia

MBBS, MD (PATHOLOGY)

REG NO. CGMC 4457/2012

ANUPAM DIAGNOSTICS

KOTRA ROAD RAIPUR (C.G.)

Dr. Sonal Kedia
M.B.B.S., MD



अनुपम डायग्नोस्टिक्स

Believe in the Best

ISO 9001:2015
CERTIFIED CENTRE

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इण्डियन अर्पोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर



जयभारत एडवांस्ड एच.एल.एल.यू. पुणेगांव का सभाग, सिटी हॉस्पिटल के आगे, कोतरा रोड,

सतीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राष्ट्र मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेक्टर

Patient Name : MR. ROSHAN RANBIR

Patient ID : S01

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:25 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:36 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

2. Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol

3. As per NCEP guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

Dr. Sonal Kedia
MBBS, MD (PAT) Sonal
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD & JALPAIGURI
Dr. Sonal Kedia
M.B.B.S., MD



अनुपम डायग्नोस्टिक्स

ISO 9001:2015
CERTIFIED CENTRE

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एन.आई. हॉस्पिटल, रायपुर



जबलपुर एम्बेससी रोड पर रायपुर के सामने,

सिटी हॉस्पिटल के आगे, कोटरा रोड,
सतीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

व्हाट्सएप कॉलेशन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राजा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. ROSHAN RANBIR

Patient ID : S01

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:25 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:34 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

Random Blood Sugar (RBS)

Blood Glucose Random

98.6

70.00 - 160.00

mg/dL

Note

(if > 200 it is DM. (Atleast two occasion))

Dr. Sonal Kedia
MBBS, MD (PATHOLOGIST)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD, RAIPUR (C.G.)
Dr. Sonal Kedia
M.B.B.S., MD



अनुपम डायग्नोस्टिक

Believe in the Best

ISO 9001:2015
CERTIFIED CENTRE

डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अस्पताल, दिल्ली

Ex. Consultant : एम.एच.आई. हॉस्पिटल, रायपुर



जयपुरा एमआरएमएच एच हाथ पुष्पाग पर सामग,

सिटी हॉस्पिटल के आगे, कोतस रोड,
सतीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राजा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. ROSHAN RANBIR

Patient ID : S01

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:25 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:36 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

Lipid Profile

Cholesterol-Total	165	Desirable: ≤ 200 Borderline High: 200-239 High: > 240	mg/dL
Triglycerides	121.6	100-170	mg/dL
HDL Cholesterol	48.2	30-60	mg/dL
LDL Cholesterol	92.48	Optimal < 100 Near / Above Optimal 100-129 Borderline High 130-159 High 160-189 Very High ≥ 190	mg/dL
VLDL Cholesterol	24.32	5-40	
CHOL/HDL Ratio	3.42	1.0-4.4	
LDL/HDL Ratio	1.92	0.50-3.00	

Note

1. 8-10 hours fasting sample is required.

Dr. Sonal Kedia
MBBS, MD (PATHOLOGIST)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTIC
KOTRA 37M
Dr. Sonal Kedia
M.B.B.S., MD

FORM 21(Annexure)
[Prescribed Under Rule(19)]
Health Register

(In respect of persons employed in occupation declared to be dangerous operation under section 87)

PRE-EMPLOYMENT & PERIODIC MEDICAL EXAMINATION

Name : Anand Mahapatra Age (Years) : 267
Employee No. Department :

Date : 19/04/22
Male / Female :
Designation :

(1) GENERAL EXAMINATION:

Height 157 Cm. Weight 57 Kg. BMI _____
Chest Inspiration: _____ Cm. Expiration: _____ Cm.
BUILT-Average/Strong/Poor.
Throat _____ Tongue _____ Tonsils _____
Teeth (N) Gums (N) Thyroid (N)
Lymph Nodes _____
Additional Findings _____

(2) CARDIO-VASCULAR SYSTEM

Pulse: 80 /Min. Regular/Irregular/Peripheral Pulse-Felt/Not Felt
B.P.: 125/92 mm of Hg. grip
Heart Sound _____
Murmur, If Any: _____
Additional Finding(S), If Any: NO

(3) RESPIRATORY SYSTEM:P

Shape Of Chest: _____
Chest Movements: NAD
Trachea: _____
Breath Sounds: _____

(4) GASTRO-INTESTINAL SYSTEM

Liver: NAD Spleen: NAD
Any Abdominal Lumps: NO

(5) EXAMINATION OF EYES:

External Exam: NAD Squint NO
Nystagmus: ✓
Colour Vision-Normal/Defective
Fundus(L) _____ (R) _____
Individual Colour Identification-Normal/Defective
Distant Vision(Without Glasses)

Right 6/6 Left 6/6
Near Vision(Without Glasses)
Right NG Left NG
With Glasses Right _____ Left _____
Night Blindness:(Nyctalopia): NO

(6) EXAMINATION OF EAR, NOSE & THROAT

External Exam: _____

(7) GENITOURINARY SYSTEM:

Hernia: _____ Hydrocele _____ Vepricocele _____
Cryptorchidism: (N) Phimosis (N)
Varicose Veins _____ Signs Of STD (N)

Other Examination For FEMALES:

Menstrual History
Menarche At ----- Yrs. Gravida ----- PARA -----
LMP -----
Menstrual Irregularity If Any: -----

(8) LAB INVESTIGATIONS:

URINE: Albumin Nil Sugar Nil Microscopy ----- Stool -----
HAEMOGRAM

Blood Group O Rh factor +ve Hb 13.6 TLC 7540 RBC 5.12
DLC ----- PLEMB ----- Platelets Count 2.32

LIPID PROFILE

Serum Cholesterol 155 :S/Triglycerides 121.3
HDL 46.2 :LDL 84.54

HEPATIC PROFILE

SGPT 32.5 :SGOT: 21.3
Alkaline Phosphatase: 78

RENAL PROFILE:

Blood Urea 30.5 :S/Creatinine: 0.72

METABOLIC:

Blood Sugar-F ----- :Blood Sugar-PP: -----
Uric Acid 5.1 : RBS: 99.3

(9) OTHER INVESTIGATIONS:

X-ray Chest(In Normal persons once in three years -----)

In case of any abnormality x-ray can be done at shorter intervals)

ECG(In case of any abnormality further tests should be carried out) -----

Ultra Sound Whole Abdomen(In normal persons once in three years in case of any abnormality can be done at shorter intervals)

Others -----

(10) PULMONARY FUNCTION TEST

	FVC	FEV 1	FEV 1/FVC
Predicted	<u>3.00</u>	<u>2.60</u>	<u>86.67</u>
Measured	<u>2.62</u>	<u>2.41</u>	<u>91.92</u>
% of predicted	<u>87</u>	<u>93</u>	<u>106</u>

Remarks:

(11) **Audiometry Examination**-PTA of both ears at frequency of 125,250,500,1000,2000,4000,8000,cycles per second -----

(12) **Medical Examination of canteen staff**

- a-Blood examination for venereal disease and routine blood examination.
- b- Stool and urine examination for worm infection.
- c- Screening for skin diseases(Scabies and others)
- d- x-ray and other tests for T.B.

(13) **Details of other specific medical examination carried out as mentioned in the respective schedules of rule 107 of C.G. Factories rules 1962-**

Dr. Sonal Kedia

MBBS, MD

REG NO. 2010457/2012
ANILPAI DIAGNOSTICS

Signature (with Date) of
Factory Medical Officer

ANUPAM DIAGNOSTICS

KOTRA ROAD, RAIGARH (C.G.)

Patient: ANAND MAHAPATRA

Refd. By:

Pred. Eqns: RECORDERS

Date : 19-Apr-2024 10:23 AM

Age : 26 Yrs

Height : 157 Cms

Weight : 51 Kgs

ID : 497

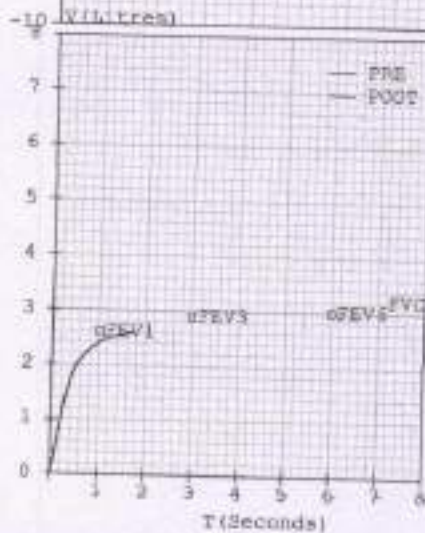
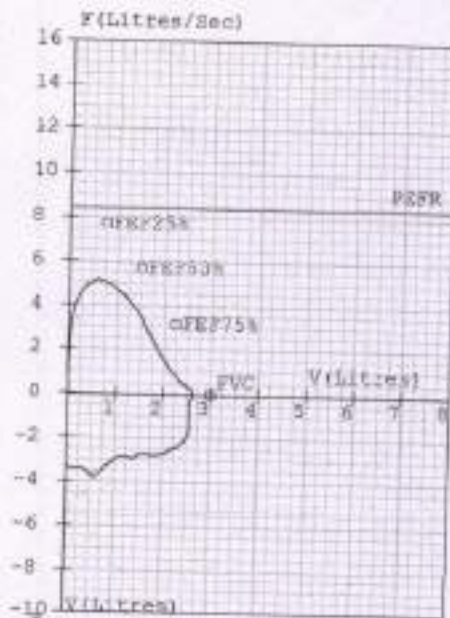
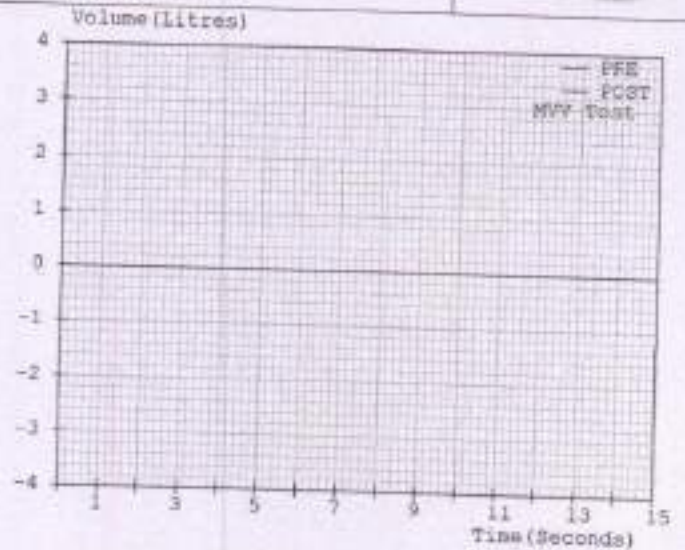
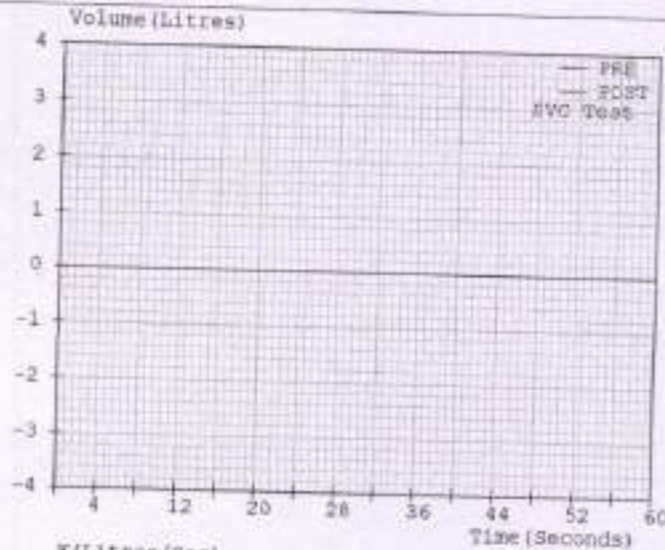
Gender : Male

Smoker : No

Eth. Corr: 100

Temp :

RMS



Spirometry Results

Parameter	Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC (L)	03.00	02.62	087			
FEV1 (L)	02.60	02.41	093			
FEV1/FVC (%)	86.67	91.98	106			
FEF25-75 (L/s)	04.32	03.40	079			
PEFR (L/s)	08.42	05.11	061			
FIVC (L)		02.87				
FEV.5 (L)		01.94				
FEV3 (L)	02.91	02.62	090			
PIFR (L/s)		03.77				
PEF75-85 (L/s)		01.15				
PEF.2-1.2 (L/s)	07.18	04.76	066			
PEF 25% (L/s)	07.70	05.06	066			
PEF 50% (L/s)	05.70	04.06	071			
PEF 75% (L/s)	03.11	01.61	052			
FEV.5/FVC (%)		74.05				
FEV3/FVC (%)	97.00	100.00	103			
FBT (Sec)		01.73				
ExptTime (Sec)		00.11				
Lung Age (Yrs)	026	028	108			
FEV6 (L)	03.00					
FIF 25% (L/s)		02.71				
FIF 50% (L/s)		03.10				
FIF 75% (L/s)		03.36				
SVC (L)						
ERV (L)	01.42					
IRV (L)						
Vn (L/min)						
Rf (l/min)						
Ti (sec)						
Te (sec)						
VT (L)						
VI/TI						
TI/Ttot						
IC (L)						
MVV (L/min)	129					
MRE (l/min)						
MVT (L)						

Dr. Sonal Kedia

MBBS, MD

REG. NO. CGMC4457

ANUPAM DIAGNOSTICS

KOTRA ROAD RAIGARH (C.G.)



Dr. Arun Kedia's 5D World

अनुपम डायग्नोस्टिक

Believe in the best

डॉ. अरुण केडिया

M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037/2010

Consultant Radiologist

Ex. Registrar: इन्द्रप्रस्थ अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant: एम.एम.अर्बु. हॉस्पिटल, रायपुर

डॉ. सोनल केडिया

M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained From: रॉटर मेमोरियल हॉस्पिटल मुंबई

ब्लड कलेक्शन हेतु: 62327 21021

अग्रिम पंजीयन हेतु: 72250 20102, 93010 10729

अग्रवाल एग्रीकल्चर एवं तेल दुकान के सामने, सिटी हॉस्पिटल
के अग्रे, कोतवा रोड, सलीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001



रायगढ़ जिले का एकमात्र आधुनिकतम 1.5 Tesla MRI, 96 Slice CT Scan and 5D सोनोग्राफी सेंटर

NAME: MR. ANAND MAHAPATRA

AGE: 26Y/M

REF. BY: (IHC) SAMBHAVI

DATE: 03.05.2024

X-RAY CHEST P.A. VIEW

OBSERVATIONS:

- ❖ Bilateral lung fields are clear.
- ❖ Trachea and mediastinum are central.
- ❖ Heart size and contour is normal. Cardio thoracic ratio is within normal limits.
- ❖ Both the hila appear normal.
- ❖ Costophrenic angles appear sharp and clear.
- ❖ Both dome of diaphragm are clearly visualized.
- ❖ Bony thoracic cage and soft tissue are normal.

IMPRESSION: -

- No evidence of occupational lung diseases detected
- No radiological signs of:
 - Pneumoconiosis.
 - Silicosis.
 - Chronic bronchitis.
 - Emphysema
 - Occupational asthma



ANUPAM DIAGNOSTICS

AUDIOMETER : ANUPAM DIAGNOSTICS

REF. BY :

DATE:- 19.04.2024

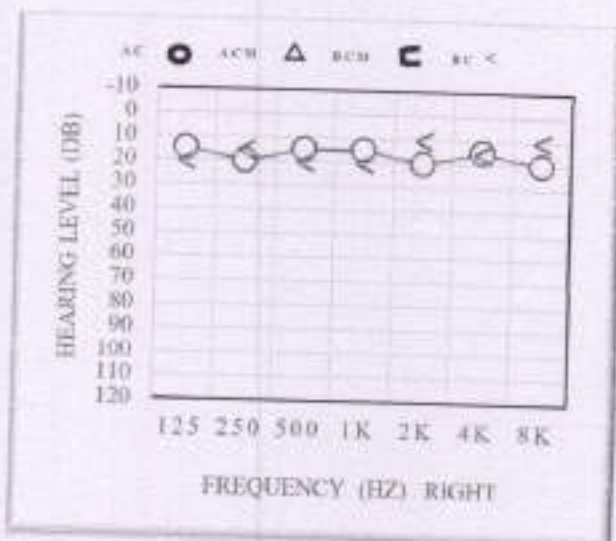
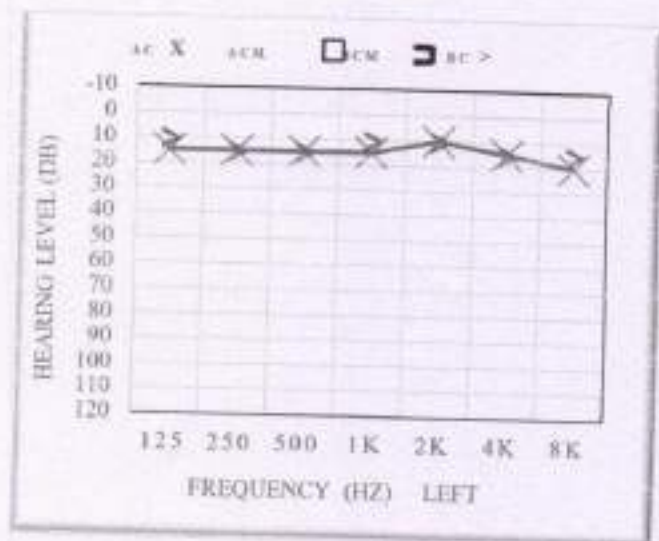
NAME : ANAND MAHAPATRA

AGE / SEX 26/M

COMPANY : SHAMBHAVI

S.NO. :

AUDIOGRAM



EAR \ MODE	AIR CONDUCTION		BONE CONDUCTION		COLOUR CODE	THRESHHOLD IN dB		LEFT	RIGHT
	MASKED	UNMASKED	MASKED	UNMASKED		AIR CONDUCTION			
LEFT	□	x	◩	>	BLUE	BONE CONDUCTION		13.33333	16.66667
RIGHT	△	○	◪	<	RED	SPEECH			
NO RESPONSE : ADD ↓BELOW THE RESPECTIVE SYMBOLS									

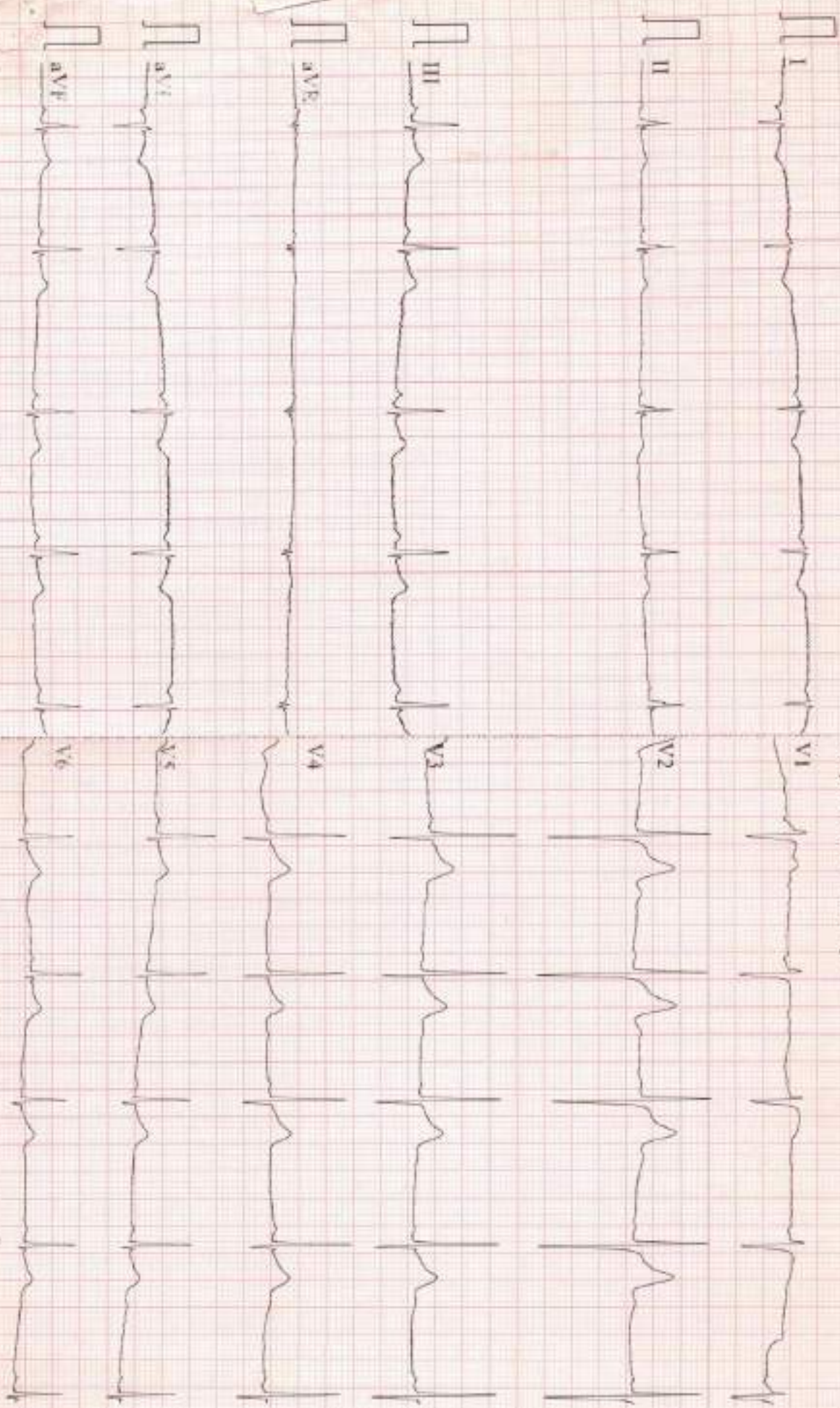
REMARK :

Dr. Sonal Kedia
MBBS, MD
REG NO. CGMC4457/2017
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIGARH (C.G.)

ID: 99683
anand mahapatra
Male 26 Years

19-04-2024 11:42:38 AM
HR : 57 bpm
P : 98 ms
PR : 136 ms
QRS : 96 ms
QT/QTcBz : 396/386 ms
PQRST : 125/110/132
RV/SV1 : 1.07/0.849 mV

Diagnosis Information:
Sinus bradycardia with sinus arrhythmia
Possible arm lead reversal - hence analyzed
Normal ECG except for rate
Ref: Phys: 1
Report Confirmed by:
Dr. Sohal Kedia
MBBS, MD, DNB
REGD. CARDIANTH
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIGARH





Dr. Arun Kedia's 5D World

अनुपम डायग्नोस्टिक

Believe in the best

डॉ. अरुण केडिया

M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037/2010

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102, 93010 10729

अग्रवाल एग्रीकल्चर एवं तेल दुकान के सामने, सिटी हॉस्पिटल
के आगे, कोतरा रोड, सलीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001



डॉ. सोनल केडिया

M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained From : टाटा मेमोरियल हॉस्पिटल मुंबई

रायगढ़ जिले का एकमात्र आधुनिकतम 1.5 Tesla MRI, 96 Slice CT Scan and 5D सोनोग्राफी सेंटर

NAME: MR. ANAND MAHAPATRA /18

AGE : 26Y/M

REF. BY: (IHC) SAMBHAVI

DATE: 03.05.2024

SONOGRAPHY OF ABDOMEN AND PELVIS

(This ultrasound is performed by high end 4 D GE VOLUSON machine)

LIVER : The liver is normal in size, shape and has smooth margins. Its echotexture is normal. No SOL is seen. Intra-hepatic biliary radicals are not dilated.

GALL BLADDER : The gall bladder is well distended. No intra-luminal calculi or mass lesion is seen. Its wall thickness is normal.

COMMON BILE DUCT & PORTAL VEIN : The common bile duct is normal in caliber. No calculi are seen in it. The portal vein is normal in calibre and course.

SPLEEN : The spleen is normal in size and shape. Its echotexture is homogeneous. No evidence of focal lesion is noted.

PANCREAS : The pancreas is normal in size, shape, contours and echotexture. No evidence of solid or cystic mass lesion is noted.

KIDNEYS : Both kidneys have normal cortical echotexture and have smooth margins. Cortico-medullary differentiation is maintained. *No calculus or hydronephrosis is seen.*

URINARY BLADDER : The urinary bladder is well distended. It shows uniformly thin walls and sharp mucosa. No intra-luminal calculus or diverticulum is seen.

PROSTATE : The prostate is normal in size and shows well defined and sharp margins. The prostatic echotexture is normal and homogenous.

No free fluid is seen in the peritoneal cavity.

No obvious evidence of dilated/thickened bowel loops seen.

IMPRESSION : NO SIGNIFICANT ABNORMALITY

ADVISED: Clinical correlation.



THIS USG IS FOR SCREENING PURPOSE ONLY. IT IS MEANT FOR SCREENING MAJOR HEALTH PROBLEMS IN INDUSTRIAL HEALTH WORKERS.



अनुपम डायग्नोस्टिक्स

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्दिरा गंधी हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एन.आई. हॉस्पिटल, रायपुर

रायपुर जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

नजदीक एम.एन.आई. हॉस्पिटल पर सामना,

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुड़ी चौक, रायपुर (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

टाटा मेमोरियल हॉस्पिटल, मुंबई

Patient Name : MR. ANAND MAHAPATRA

Patient ID : S02

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:28 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:52 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
PLANT CBC			
Hemoglobin (Hb)*	13.6	13 - 18	gm/dL
Total Leucocytes (WBC) Count*	7540	4000 - 10000	cell/cu.mm
Neutrophils	70	40 - 80	%
Lymphocytes	25	20 - 40	%
Monocyte	2	2-10	%
Eosinophils	03	1 - 6	%
Basophils	0	0 - 1	%
Platelet Count*	2.32	1.5 - 4.5	lakh/cumm
Erythrocyte (RBC) Count*	5.12	4.7 - 6.0	mil/cu.mm
RDW-SD	42.1	37.0 - 54.0	f1
RDW-CV	13.2	11.6 - 14.0	

Blood Group ABO & Rh Typing, Blood

Blood Group (ABO typing)

O

Rh(D) Factor (Rh Typing)

Positive

Random Blood Sugar (RBS)

Blood Glucose Random

99.3

70.00 - 160.00

mg/dL

Note

Dr. Sonal Kedia
MBBS, MD (PATHOLOGIST)
REG NO. CGMC4457/2012
ANUPAM DIAGNOSTICS
M.B.B.S., M.D.



अनुपम डायग्नोस्टिक्स

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्टरम्युट्रि हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आर. हॉस्पिटल, रायपुर

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

जयप्रकाश एम्बेल्ड्ड हेल्थ केयर प्रुपर्टीज प्रा. लि.

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021
अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

टाटा मेमोरियल हॉस्पिटल, मुंबई

Patient Name : MR. ANAND MAHAPATRA

Patient ID : S02

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:28 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:52 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
Bilirubin - Indirect	0.30	0.2-0.8	mg/dL
SGOT	21.3	0-35	U/L
SGPT	32.5	0-45	U/L
Alkaline phosphatase	78	40-128	U/L
Total Protein	7.52	6.4 - 8.3	g/dL
Albumin	4.21	3.2 - 5.2	g/dL
Globulin	3.31	1.8 - 3.6	g/dL
A/G Ratio	1.27	1.2 - 2.2	

Dr. Sonal Kedia
MBBS, MD (PATHOLOGY)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIPUR (C.G.)
M.B.B.S., M.D.



अनुपम डायग्नोस्टिक्स

Believe in the Best

ISO 9001:2015
CERTIFIED CENTRE

डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एन.जी. हॉस्पिटल, रायपुर



महाराष्ट्र एम्बेस्सी रोड एच.एम.एस.ए. कॉम्प्लेक्स, रायपुर

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

टाटा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. ANAND MAHAPATRA

Patient ID : S02

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:28 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:52 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

(if > = 200 it is DM.(Atleast two occasion))

Lipid Profile

Cholesterol-Total	155	Desirable: <= 200 Borderline High: 200-239 High: > 240	mg/dL
Triglycerides	121.3	100-170	mg/dL
HDL Cholesterol	46.2	30-60	mg/dL
LDL Cholesterol	84.54	Optimal < 100 Near / Above Optimal 100-129 Borderline High 130-159 High 160-189 Very High >or = 190	mg/dL
VLDL Cholesterol	24.26	5-40	
CHOL/HDL Ratio	3.35	1.0-4.4	
LDL/HDL Ratio	1.83	0.50-3.00	

Note

1. 8-10 hours fasting sample is required.

Dr. Sonal Kedia
MBBS, MD (PATHOLOGIST)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
OTRA ROAD, RAIPUR, C.G.
M.B.B.S., MD



अनुपम डायग्नोस्टिक्स

ISO 9001:2015
CERTIFIED CENTRE

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर



जयभारत एम्बुलेंस सर्विस प्रा. लि. रायपुर, छ.ग.

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

लटा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. ANAND MAHAPATRA

Patient ID : S02

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:28 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:52 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

Urobilinogen

Normal

Nitrite

NIL

Microscopic Examination

Epithelial Cells

2-4

0-2

/HPF

Pus Cell (WBCs)

0-2

0-2

/HPF

RBC

NIL

0-1

/HPF

Cast

NIL

0-0

/HPF

Crystals

NIL

Bacteria

NIL

Other

NIL

kidney function test With Electrolyte

Urea *

30.5

11- 40

mg/dL

Blood Urea Nitrogen-BUN*

14.25

5- 20

mg/dL

Creatinine*

0.72

0.5 - 1.2

mg/dL

Uric Acid*

5.1

3.5 - 7.0

mg/dL

Lft, Liver Function Test

Bilirubin - Total

0.55

0.2-1.2

mg/dL

Bilirubin - Direct

0.25

0.2-1.0

mg/dL

Dr. Sonal Kedia

MBBS, MD (PATHOLOGY)

REG NO. CGMC 4457/2012

ANUPAM DIAGNOSTICS

KOTRA ROAD RAIPUR (C.G.)



अनुपम डायग्नोस्टिक्स

ISO 9001:2015
CERTIFIED CENTRE

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.I.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्दावनी अस्पताल, दिल्ली

Ex. Consultant : एम.एच.आई. हॉस्पिटल, रायपुर



जयपुरा रोड, राजपुरा, रायपुर, छ.ग. - 496001

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुडी चौक, रायपुर (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राजा मेमोरियल हॉस्पिटल, मुंबई

रायपुर जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. ANAND MAHAPATRA

Patient ID : S02

Age / Gender : 26 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:28 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:52 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

2. Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol

3. As per NCEP guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

Urine Routine Examination

Physical Examination

Volume	30	20 - 50	ml
Colour	pale yellow		
Appearance	Clear	Clear	
Reaction (pH)	6.0		
Specific gravity	1.020	1.003 - 1.030	

Chemical Examination

Urine Glucose (Sugar)	NIL
Urine Protein (Albumin)	NIL
Urine Ketones (Acetone)	Absent
Billurubin	NIL

Dr. Sonal Kedia

MBBS, MD (PATHOLOGY)

REG NO. CGMC 4457/2012

ANUPAM DIAGNOSTICS

KOTRA ROAD RAIPUR, C.G.

FORM 21(Annexure)
[Prescribed Under Rule(19)]

Health Register

(In respect of persons employed in occupation declared to be dangerous operation under section 87)
PRE-EMPLOYMENT & PERIODIC MEDICAL EXAMINATION

Name: Kishan Rana
Employee No. _____

Age (Years): 24
Department: _____

Date: 19/04/24
Male / Female: ✓
Designation: _____

(1) GENERAL EXAMINATION:

Height 160 Cm. Weight 54 Kg. BMI _____
Chest Inspiration: _____ Cm. Expiration: _____ Cm.

BUILT-Average/Strong/Poor.

Throat _____ Tongue _____ Tonsils _____
Teeth (N) Gums (N) Thyroid (N)

Lymph Nodes _____

Additional Findings _____

(2) CARDIO-VASCULAR SYSTEM

Pulse: 73 /Min. Regular/Irregular/Peripheral Pulse-Felt/Not Felt

B.P.: 127/80 mm of Hg. ∴ _____

Heart Sound _____

Murmur, If Any: _____

Additional Finding(S), If Any: NO

(3) RESPIRATORY SYSTEM:P

Shape Of Chest: _____

Chest Movements: Normal

Trachea: _____

Breath Sounds: _____

(4) GASTRO-INTESTINAL SYSTEM

Liver: NP Spleen: NP

Any Abdominal Lumps: NO

(5) EXAMINATION OF EYES:

External Exam: Normal Squint NO

Nystagmus: _____

Colour Vision-Normal/Defective

Fundus(L) _____ (R) _____

Individual Colour Identification-Normal/Defective

Distant Vision(Without Glasses) _____

Right 6/6 Left 6/6

Near Vision(Without Glasses) _____

Right 1/6 Left 1/6

With Glasses Right _____ Left _____

Night Blindness:(Nyctalopia): NO

(6) EXAMINATION OF EAR, NOSE & THROAT

External Exam: _____

(7) GENITOURINARY SYSTEM:

Hernia: _____ Hydrocele _____ Vepricocele _____

Cryptorchidism: (N) Phimosis _____

Varicose Veins _____ Signs Of STD (N)

Other Examination For FEMALES: _____

Menstrual History
Menarche At ----- Yrs. Gravidia -----
LMP ----- Obstetric History
PARA -----

Menstrual Irregularity If Any: -----

(8) LAB INVESTIGATIONS:

URINE: Albumin Nil Sugar Nil Microscopy ----- Stool -----
HAEMOGRAM

Blood Group B Rh factor +ve Hb 13.6 TLC 7450 RBC 5.12
DLC ----- PLEMB ----- Platelets Count 2.32

LIPID PROFILE

Serum Cholesterol 165 :S/Triglycerides 142.1
HDL 48.2 :LDL 88.38

HEPATIC PROFILE

SGPT 28.1 :SGOT: 16.5
Alkaline Phosphatase: 48

RENAL PROFILE:

Blood Urea 26.3 :S/Creatinine: 0.68

METABOLIC:

Blood Sugar-F ----- :Blood Sugar-PP: -----
Uric Acid 5.1 :RBS: 98.3

(9) OTHER INVESTIGATIONS:

X-ray Chest(In Normal persons once in three years)

In case of any abnormality x-ray can be done at shorter intervals)

ECG(In case of any abnormality further tests should be carried out)

Ultra Sound Whole Abdomen(In normal persons once in three years in case of any abnormality can be done at shorter intervals)

Others -----

(10) PULMONARY FUNCTION TEST

	FVC	FEV 1	FEV 1/FVC
Predicted	<u>3.17</u>	<u>2.72</u>	<u>87.38</u>
Measured	<u>2.72</u>	<u>2.56</u>	<u>94.12</u>
% of predicted	<u>86</u>	<u>92</u>	<u>108</u>

Remarks: -----

(11) Audiometry Examination-PTA of both ears at frequency of 125,250,500,1000,2000,4000,8000,cycles per second

(12) Medical Examination of canteen staff

- a-Blood examination for venereal disease and routine blood examination.
- b- Stool and urine examination for worm infection.
- c- Screening for skin diseases(Scabies and others)
- d- x-ray and other tests for T.B.

(13) Details of other specific medical examination carried out as mentioned in the respective schedules of rule 107 of C.G. Factories rules 1962-

Dr. Sonal K. J. A
MBBS, MD, DPM
REG NO. 1012
ANUPMA
RAIGARH

Signature (with Date) of
Factory Medical Officer

ANUPAM DIAGNOSTICS

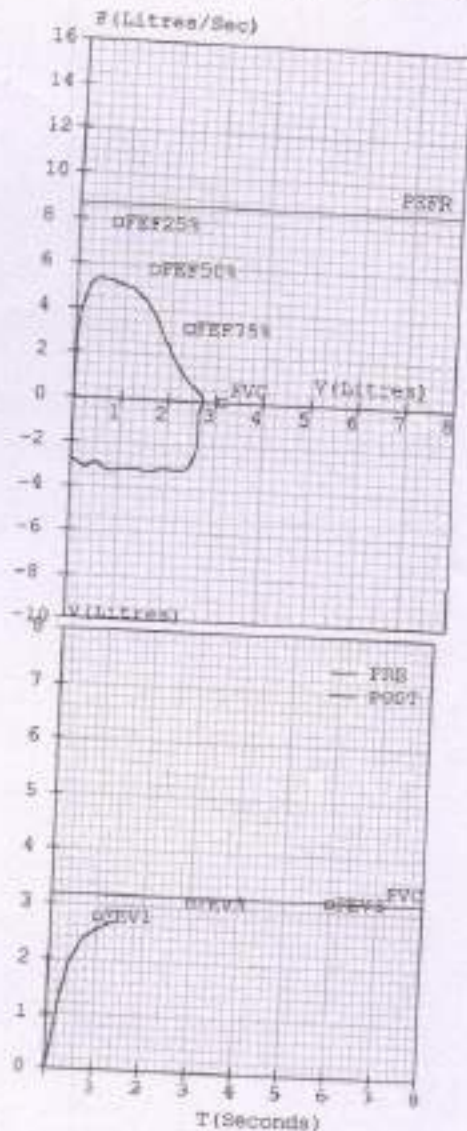
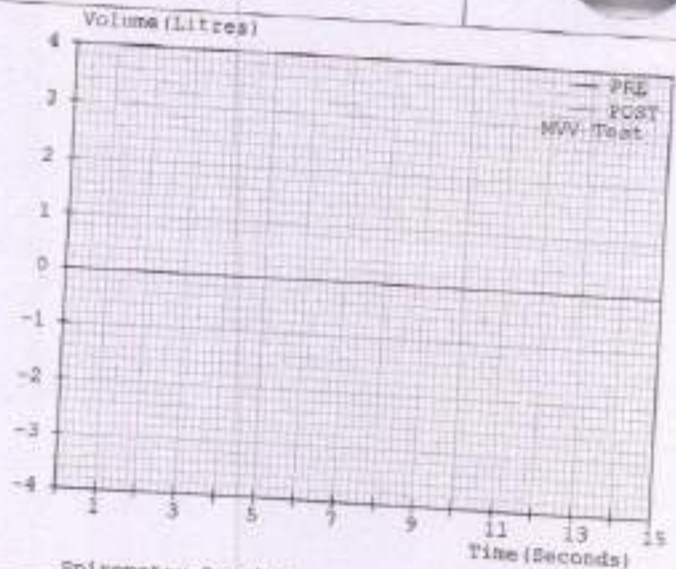
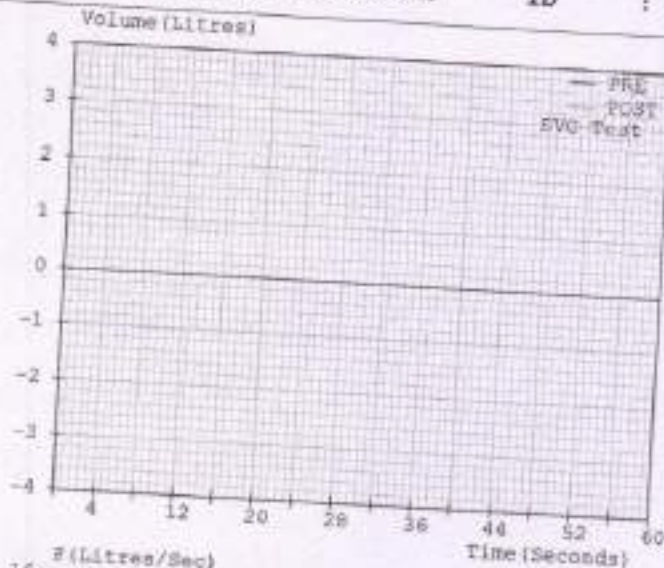
KOTRA ROAD, RAIGARH (C.G.)

Patient: KISHAN RANA
Refd. By:
Pred. Eqns: RECORDERS
Date : 19-Apr-2024 10:24 AM

Age : 24 Yrs
Height : 160 Cms
Weight : 54 Kgs
ID : 498

Gender : Male
Smoker : No
Eth. Corr: 100
Temp :

RMS



Spirometry Results						
Parameter	Pred	M.Pre	%Pred	M.Post	%Pred	Temp
FVC (L)	03.17	02.72	086	---	---	---
FEV1 (L)	02.77	02.56	092	---	---	---
FEV1/FVC (%)	87.38	94.12	108	---	---	---
FEF25-75 (L/s)	04.47	03.87	087	---	---	---
PEFR (L/s)	08.70	05.31	061	---	---	---
FIVC (L)	---	02.92	---	---	---	---
FEV.5 (L)	---	02.09	---	---	---	---
FEV3 (L)	03.08	02.72	088	---	---	---
PIFR (L/s)	---	03.24	---	---	---	---
FEF75-95 (L/s)	---	01.39	---	---	---	---
FEV.2-1.2 (L/s)	07.47	05.05	068	---	---	---
FEF 25% (L/s)	07.85	05.25	067	---	---	---
FEF 50% (L/s)	05.84	04.56	078	---	---	---
FEF 75% (L/s)	03.24	02.01	062	---	---	---
FEV.5/FVC (%)	---	76.84	---	---	---	---
FEV3/FVC (%)	97.16	100.00	103	---	---	---
FET (Sec)	---	01.45	---	---	---	---
ExpirTime (Sec)	---	00.07	---	---	---	---
Lung Age (Yrs)	024	026	108	---	---	---
FEV6 (L)	03.17	---	---	---	---	---
FIF 25% (L/s)	---	03.18	---	---	---	---
FIF 50% (L/s)	---	03.14	---	---	---	---
FIF 75% (L/s)	---	03.07	---	---	---	---
SVC (L)	---	---	---	---	---	---
ERV (L)	01.48	---	---	---	---	---
IRV (L)	---	---	---	---	---	---
VE (L/min)	---	---	---	---	---	---
Rf (l/min)	---	---	---	---	---	---
Ti (sec)	---	---	---	---	---	---
Te (sec)	---	---	---	---	---	---
VT (L)	---	---	---	---	---	---
VT/Ti	---	---	---	---	---	---
Ti/Ttot	---	---	---	---	---	---
IC (L)	---	---	---	---	---	---
MVV (L/min)	134	---	---	---	---	---
MRF (L/min)	---	---	---	---	---	---
MVT (L)	---	---	---	---	---	---

Dr. Sonal Kedia
MBBS, MD
REG NO. CCMC4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD, RAIGARH (C.G.)

M.B.B.S., MD

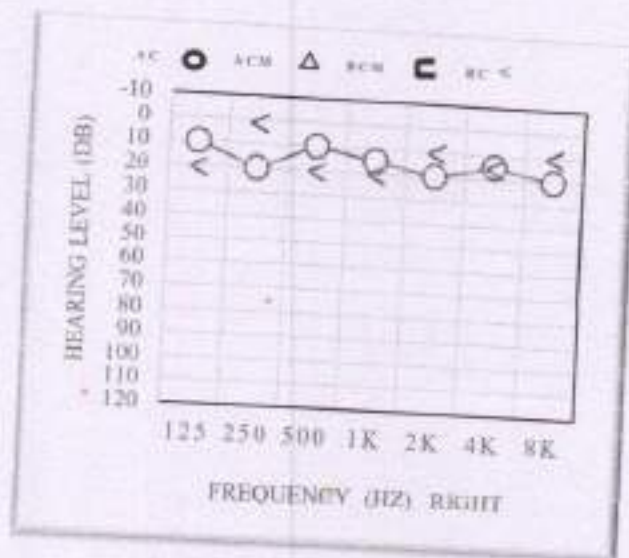
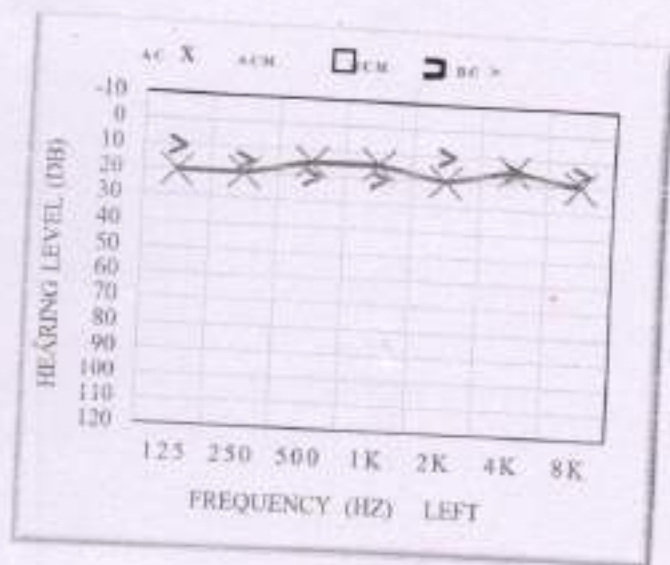
ANUPAM DIAGNOSTICS

AUDIOMETER : ANUPAM DIAGNOSTICS

DATE:- 19.04.2024
NAME : KISHAN RANA
AGE / SEX 24/M
COMPANY : SHAMBHAVI
S.NO. :

REF. BY :

AUDIOGRAM



EAR	MODE	AIR CONDUCTION		BONE CONDUCTION		COLOUR CODE	THRESHHOLD IN dB		LEFT	RIGHT
		MASKED	UNMASKED	MASKED	UNMASKED		AIR CONDUCTION			
LEFT		□	X	□	>	BLUE	BONE CONDUCTION		16.66667	15
RIGHT		△	O	△	<	RED	SPEECH			

NO RESPONSE : ADD ↓BELOW THE RESPECTIVE SYMBOLS

REMARK :

Dr. Sonal Kedia
REG NO. GMC/4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIGARH (C.G.)



अनुपम डायग्नोस्टिक्स

Believe in the Best

ISO 9001:2015
CERTIFIED CENTRE

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अस्पताल, दिल्ली

Ex. Consultant : एम.एन.आई. हॉस्पिटल, रायगढ़

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

जयप्रकाश एम्बेल्स एम एल युधकग ११ रायगढ़

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राय मेमोरियल हॉस्पिटल, मुंबई

Patient Name : MR. KISHAN RANA		Patient ID : S03	
Age / Gender : 24 years / Male		Medical Option Code :	
Referral : Dr. SHAMBHAVI ISPAT PVT LTD.		Collection Time : Apr 20, 2024, 11:26 a.m.	
Contact No. : -		Reporting Time : Apr 20, 2024, 03:37 p.m.	
Test Description	H/L Value(s)	Reference Range	Unit(s)

Urobilinogen

Normal

Nitrite

NIL

Microscopic Examination

Epithelial Cells

2-4

0-2

/HPF

Pus Cell (WBCs)

0-2

0-2

/HPF

RBC

NIL

0-1

/HPF

Cast

NIL

0-0

/HPF

Crystals

NIL

Bacteria

NIL

Other

NIL

kidney function test With Electrolyte

Urea *	26.3	11- 40	mg/dL
Blood Urea Nitrogen-BUN*	12.29	5- 20	mg/dL
Creatinine*	0.68	0.5 - 1.2	mg/dL
Uric Acid*	5.1	3.5 - 7.0	mg/dL

Lft, Liver Function Test

Bilirubin - Total	0.40	0.2-1.2	mg/dL
Bilirubin - Direct	0.20	0.2-1.0	mg/dL

Dr. Sonal Kedia
MBBS, M.D. (Pathology)
REG NO. 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD
Dr. Sonal Kedia
M.B.B.S., MD

ID: 99684
Kishan rana
Male 24 Years

19-04-2024 11:49:33 AM
HR : 69 bpm
P : 100 ms
PR : 134 ms
QRS : 88 ms
QT/QTcbz : 414/444 ms
P/QRS/T : 123/148/139
RV5/SV1 : 1.133/0.781 mV

Diagnosis Information:

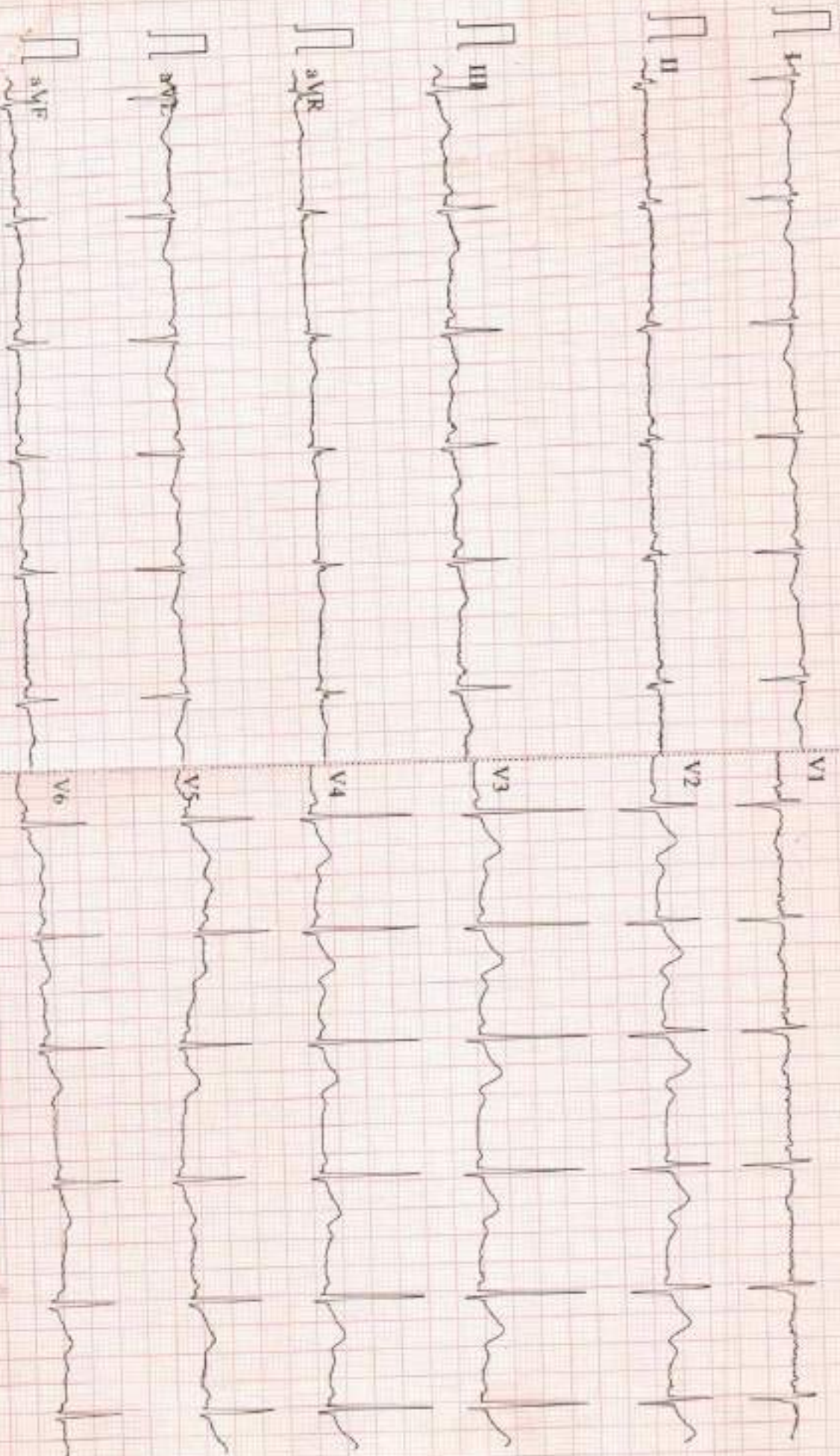
Probable atrial fibrillation

— Possible arm lead reversal — hence only aVF, V1-V6 analyzed —

Abnormal ECG

Ref-Phys. :
Report Confirmed by:

Dr. Sonal Kedia
MBBS
REG NO. 0240
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIGARH (C.O.)





अनुपम डायग्नोस्टिक्स

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अस्पताल, दिल्ली

Ex. Consultant : एम.एच.आई. हॉस्पिटल, रायपुर

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

जयप्रकाश एडवांस्ड मेडिकल सुविधा का सामना

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राजा मेमोरियल हॉस्पिटल, मुंबई

Patient Name : MR. KISHAN RANA

Age / Gender : 24 years / Male

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Contact No. : -

Patient ID : S03

Medical Option Code :

Collection Time : Apr 20, 2024, 11:26 a.m.

Reporting Time : Apr 20, 2024, 03:37 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

2. Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol

3. As per NCEP guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

Urine Routine Examination

Physical Examination

Volume	30	20 - 50	ml
Colour	pale yellow		
Appearance	Clear	Clear	
Reaction (pH)	6.0		
Specific gravity	1.020	1.003 - 1.030	

Chemical Examination

Urine Glucose (Sugar)	NIL
Urine Protein (Albumin)	NIL
Urine Ketones (Acetone)	Absent
Billurubin	NIL

Dr. Sonal Kedia
MBBS, MD (PATHOLOGY)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD
Dr. Sonal Kedia
M.B.B.S., MD



अनुपम डायग्नोस्टिक

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रपद्म स्पायली हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर



जयपुराई एम्बुलेंस सर्विस एम.एम.आई. हॉस्पिटल पर संचालित

सिटी हॉस्पिटल के आगे, कोतरा रोड,

सतीगुडी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

टाटा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. KISHAN RANA

Age / Gender : 24 years / Male

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Contact No. : -

Patient ID : S03

Medical Option Code :

Collection Time : Apr 20, 2024, 11:26 a.m.

Reporting Time : Apr 20, 2024, 03:37 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
PLANT CBC			
Hemoglobin (Hb)*	13.6	13 - 18	gm/dL
Total Leucocytes (WBC) Count*	7450	4000 - 10000	cell/cu.mm
Neutrophils	70	40 - 80	%
Lymphocytes	23	20 - 40	%
Monocyte	3	2-10	%
Eosinophils	04	1 - 6	%
Basophils	0	0 - 1	%
Platelet Count*	2.32	1.5 - 4.5	lakh/cumm
Erythrocyte (RBC) Count*	5.12	4.7 - 6.0	mil/cu.mm
RDW-SD	42.1	37.0 - 54.0	fL
RDW-CV	12.8	11.6 - 14.0	

Blood Group ABO & Rh Typing, Blood

Blood Group (ABO typing)

B

RhD Factor (Rh Typing)

Positive

Random Blood Sugar (RBS)

Blood Glucose Random

98.3

70.00 - 160.00

mg/dL

Note

Dr. Sonal Kedia
MBBS, MD (PATHOLOGY)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTIC CENTRE
Dr. Sonal Kedia
M.B.B.S., M.D.



अनुपम डायग्नोस्टिक्स

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रास अर्पोली हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर

सबमर्क जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

पञ्जाबी चर्च/पञ्जाबी चर्च/पञ्जाबी चर्च/पञ्जाबी चर्च/पञ्जाबी चर्च

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुडी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

टाटा मेमोरियल हॉस्पिटल, मुंबई

Patient Name : MR. KISHAN RANA		Patient ID : S03	
Age / Gender : 24 years / Male		Medical Option Code :	
Referral : Dr. SHAMBHAVI ISPAT PVT LTD.		Collection Time : Apr 20, 2024, 11:26 a.m.	
Contact No. : -		Reporting Time : Apr 20, 2024, 03:37 p.m.	
Test Description	H/L Value(s)	Reference Range	Unit(s)

(if > = 200 it is DM.(Atleast two occasion))

Lipid Profile

Cholesterol-Total	165	Desirable: <= 200 Borderline High: 200-239 High: > 240	mg/dL
Triglycerides	142.1	100-170	mg/dL
HDL Cholesterol	48.2	30-60	mg/dL
LDL Cholesterol	88.38	Optimal < 100 Near / Above Optimal 100-129 Borderline High 130-159 High 160-189 Very High >or = 190	mg/dL
VLDL Cholesterol	28.42	5-40	
CHOL/HDL Ratio	3.42	1.0-4.4	
LDL/HDL Ratio	1.83	0.50-3.00	

Note

1. 8-10 hours fasting sample is required.

Dr. Sonal Kedia
MBBS, M.D. (Pathology)
REG. NO. 4457/2012
ANUPAM DIAGNOSTICS
KOTRA
Dr. Sonal Kedia
M.B.B.S., M.D.

FORM 21(Annexure)
[Prescribed Under Rule(19)]
Health Register

(In respect of persons employed in occupation declared to be dangerous operation under section 87)

PRE-EMPLOYMENT & PERIODIC MEDICAL EXAMINATION

Name : Shubham Mallik Age (Years) : 28
Employee No. Department :

Date : 19/04/21
Male / Female :
Designation :

(1) GENERAL EXAMINATION:

Height 167 Cm. Weight 94 Kg. BMI _____
Chest Inspiration: _____ Cm. Expiration: _____ Cm.
BUILT-Average/Strong/Poor.
Throat (N) Tongue (N) Tonsils (N)
Teeth (N) Gums (N) Thyroid (N)
Lymph Nodes _____
Additional Findings _____

(2) CARDIO-VASCULAR SYSTEM

Pulse: 94/Min. Regular/Irregular/Peripheral Pulse-Felt/Not Felt
B.P.: 125/86 mm of Hg. ;
Heart Sound S2 +
Murmur, If Any: _____
Additional Finding(S), If Any: NO

(3) RESPIRATORY SYSTEM:P

Shape Of Chest: _____
Chest Movements: NAD
Trachea: _____
Breath Sounds: _____

(4) GASTRO-INTESTINAL SYSTEM

Liver: NO Spleen: NO
Any Abdominal Lumps: NO

(5) EXAMINATION OF EYES:

External Exam: NAD Squint NO
Nystagmus: ✓
Colour Vision-Normal/Defective
Fundus(L) _____ (R) _____
Individual Colour Identification-Normal/Defective
Distant Vision(Without Glasses)

Right 6/6 Left 6/6
Near Vision(Without Glasses)
Right NG Left NG
With Glasses Right _____ Left _____
Night Blindness(Nyctalopia): NO

(6) EXAMINATION OF EAR, NOSE & THROAT

External Exam: _____

(7) GENITOURINARY SYSTEM:

Hernia: _____ Hydrocele _____ Vepriocoele (N)
Cryptorchidism: (N) Phimosis (N)
Varicose Veins _____ Signs Of STD _____

Other Examination For FEMALES:

Menstrual History
Menarche At ----- Yrs. Gravida -----
LMP -----
Menstrual Irregularity If Any: -----

Obstetric History
PARA -----

(8) LAB INVESTIGATIONS:

URINE: Albumin Nil Sugar Nil Microscopy ----- Stool -----
HAEMOGRAM
Blood Group B Rh factor +ve Hb 13.6 TLC 6580 RBC 5.12
DLC ----- PLEMB ----- Platelets Count 2.52

LIPID PROFILE
Serum Cholesterol 170 :S/Triglycerides 135.1
HDL 48.2 :LDL 99.28

HEPATIC PROFILE
SGPT 26.1 :SGOT: 23.1
Alkaline Phosphatase: 78

RENAL PROFILE:
Blood Urea 26.1 :S/Creatinine: 0.71

METABOLIC:
Blood Sugar-F ----- :Blood Sugar-PP: -----
Uric Acid 4.6 : RBS: 86.2

(9) OTHER INVESTIGATIONS:

X-ray Chest(In Normal persons once in three years
In case of any abnormality x-ray can be done at shorter intervals)

ECG(In case of any abnormality further tests should be carried out)

Ultra Sound Whole Abdomen(In normal persons once in three years in case of any abnormality can be done at shorter intervals)

Others -----

(10) PULMONARY FUNCTION TEST

	FVC	FEV 1	FEV 1/FVC
Predicted	<u>3.47</u>	<u>2.96</u>	<u>85.30</u>
Measured	<u>3.24</u>	<u>2.99</u>	<u>92.28</u>
% of predicted	<u>93</u>	<u>101</u>	<u>108</u>

Remarks: -----

(11) Audiometry Examination-PTA of both ears at frequency of 125,250,500,1000,2000,4000,8000,cycles per second

(12) Medical Examination of canteen staff

- a- Blood examination for venereal disease and routine blood examination.
- b- Stool and urine examination for worm infection.
- c- Screening for skin diseases(Scabies and others)
- d- x-ray and other tests for T.B.

(13) Details of other specific medical examination carried out as mentioned in the respective schedules of rule 107 of C.G. Factories rules 1962-

Dr. Sonal Kedia

MBBS, MD

REG NO. 00004457/2012

ANUPAM DIAGNOSTICS

OTRA ROAD RAIGARH (C.G.)

Signature (with Date) -----
Factory Manager -----

ANUPAM DIAGNOSTICS

KOTRA ROAD, RAIGARH (C.G.)

Patient: SHUBHAM MALLIK

Refd. By:

Pred. Eqns: RECORDERS

Date : 19-Apr-2024 10:24 AM

Age : 28 Yrs

Height : 167 Cms

Weight : 94 Kgs

ID : 499

Gender : Male

Smoker : No

Eth. Corr: 100

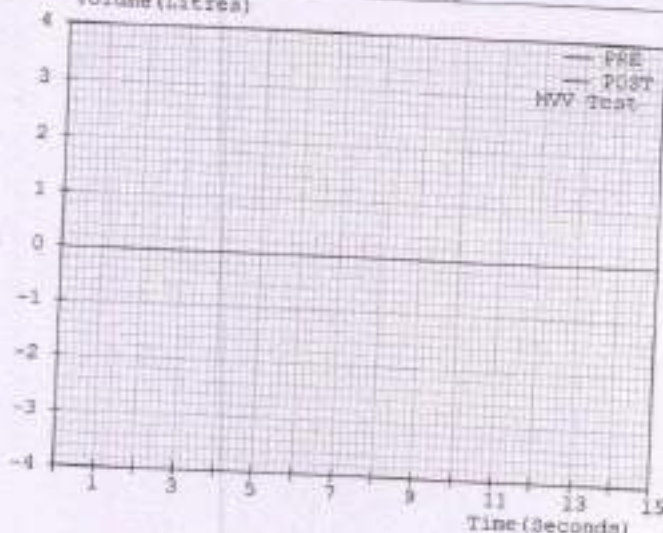
Temp :

RMS

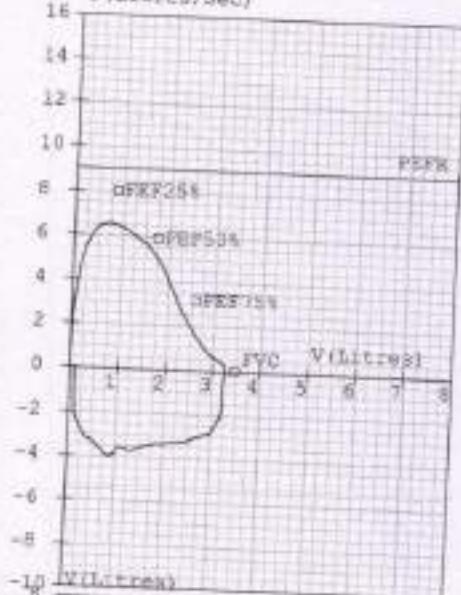
Volume (Litres)



Volume (Litres)

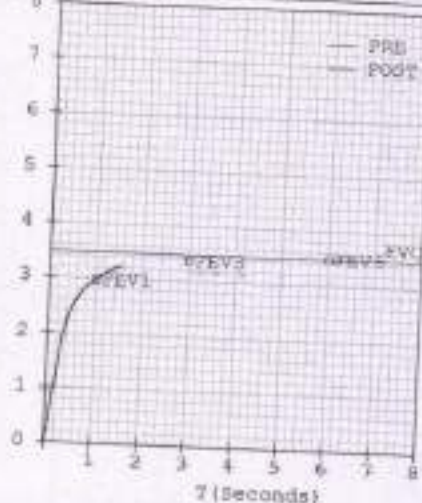


F (Litres/Sec)



Spirometry Results

Parameter	Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC (L)	03.47	03.24	093			
FEV1 (L)	02.96	02.59	101			
FEV1/FVC (%)	05.30	02.28	108			
FEF25-75 (L/s)	04.42	04.40	100			
PEFR (L/s)	09.06	06.49	072			
FIVC (L)		03.18				
FEV.5 (L)		02.46				
FEV3 (L)	03.36	03.24	096			
PIFR (L/s)		03.94				
FEF75-85 (L/s)		01.48				
FEF.2-1.2 (L/s)	07.55	06.11	081			
FEF 25% (L/s)	08.02	06.41	080			
FEF 50% (L/s)	05.90	05.33	090			
FEF 75% (L/s)	03.17	02.12	067			
FEV.5/FVC (%)		75.93				
FEV3/FVC (%)	96.83	100.00	103			
FET (Sec)		01.61				
ExptTime (Sec)		00.09				
Lung Age (Yrs)	028	028	100			
FEV6 (L)	03.47					
FIP 25% (L/s)		03.14				
FIP 50% (L/s)		03.41				
FIP 75% (L/s)		03.83				
SVC (L)						
ERV (L)	01.50					
IRV (L)						
VE (L/min)						
Rf (l/min)						
Ti (sec)						
Te (sec)						
VT (L)						
VT/Ti						
Ti/Ttot						
IC (L)						
MVV (L/min)	135					
MRI (l/min)						
MVT (L)						



Dr. Sonal Kedia
MBBS, MD
REG NO. 20000445720
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIGARH (C.G.)



Dr. Arun Kedia's 5D World

अनुपम डायग्नोस्टिक

Believe in the best

डॉ. अरुण केडिया

M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037/2010

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एन.आई. हॉस्पिटल, रायपुर

डॉ. सोनल केडिया

M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained From : टाटा मेमोरियल हॉस्पिटल मुंबई

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102, 93010 10729

अग्रवाल एग्रीकल्चर एवं तेल दुकान के सामने, सिटी हॉस्पिटल
के आगे, कोतरा रोड, सलीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001



रायगढ़ जिले का एकमात्र आधुनिकतम 1.5 Tesla MRI, 96 Slice CT Scan and 5D सोनोग्राफी सेंटर

NAME: MR SHUBHAM MALLIK

AGE : 28Y/M

REF. BY: OHC(SAMBHAVI PLANT)

DATE: 14.05.2024

X-RAY CHEST P.A. VIEW

OBSERVATIONS:

- ❖ Bilateral lung fields are clear.
- ❖ Trachea and mediastinum are central.
- ❖ Heart size and contour is normal. Cardio thoracic ratio is within normal limits.
- ❖ Both the hila appear normal.
- ❖ Costophrenic angles appear sharp and clear.
- ❖ Both dome of diaphragm are clearly visualized.
- ❖ Bony thoracic cage and soft tissue are normal.

IMPRESSION: -

- No evidence of occupational lung diseases detected

No radiological signs of:

- Pneumoconiosis.
- Silicosis.
- Chronic bronchitis.
- Emphysema
- Occupational asthma



ANUPAM DIAGNOSTICS

AUDIOMETER : ANUPAM DIAGNOSTICS

REF. BY :

DATE:- 19.04.2024

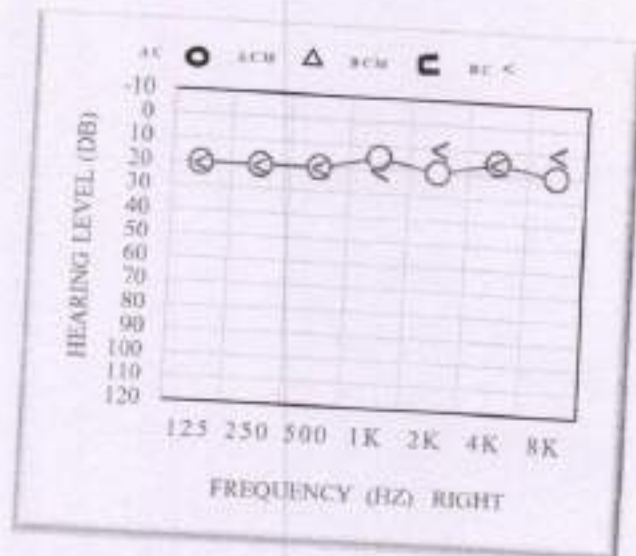
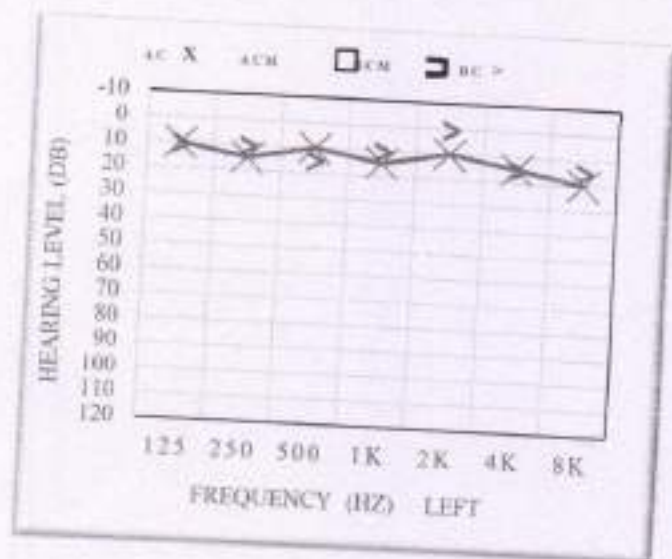
NAME : SHUBHAM MALLIK

AGE / SEX 28/M

COMPANY : SHAMBHAVI

S.NO. :

AUDIOGRAM



EAR	MODE	AIR CONDUCTION		BONE CONDUCTION		COLOUR CODE	THRESHOLD IN dB		
		MASKED	UNMASKED	MASKED	UNMASKED		AIR CONDUCTION	LEFT	RIGHT
LEFT		□	x	□	>	BLUE	BONE CONDUCTION	11.66667	18.33333
RIGHT		△	○	□	<	RED	SPEECH		

NO RESPONSE : ADD ↓ BELOW THE RESPECTIVE SYMBOLS

REMARK :

Dr. Sonal Kedia
MBBS, MD
REG NO. CGMC44012
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIGARH (C.G.)

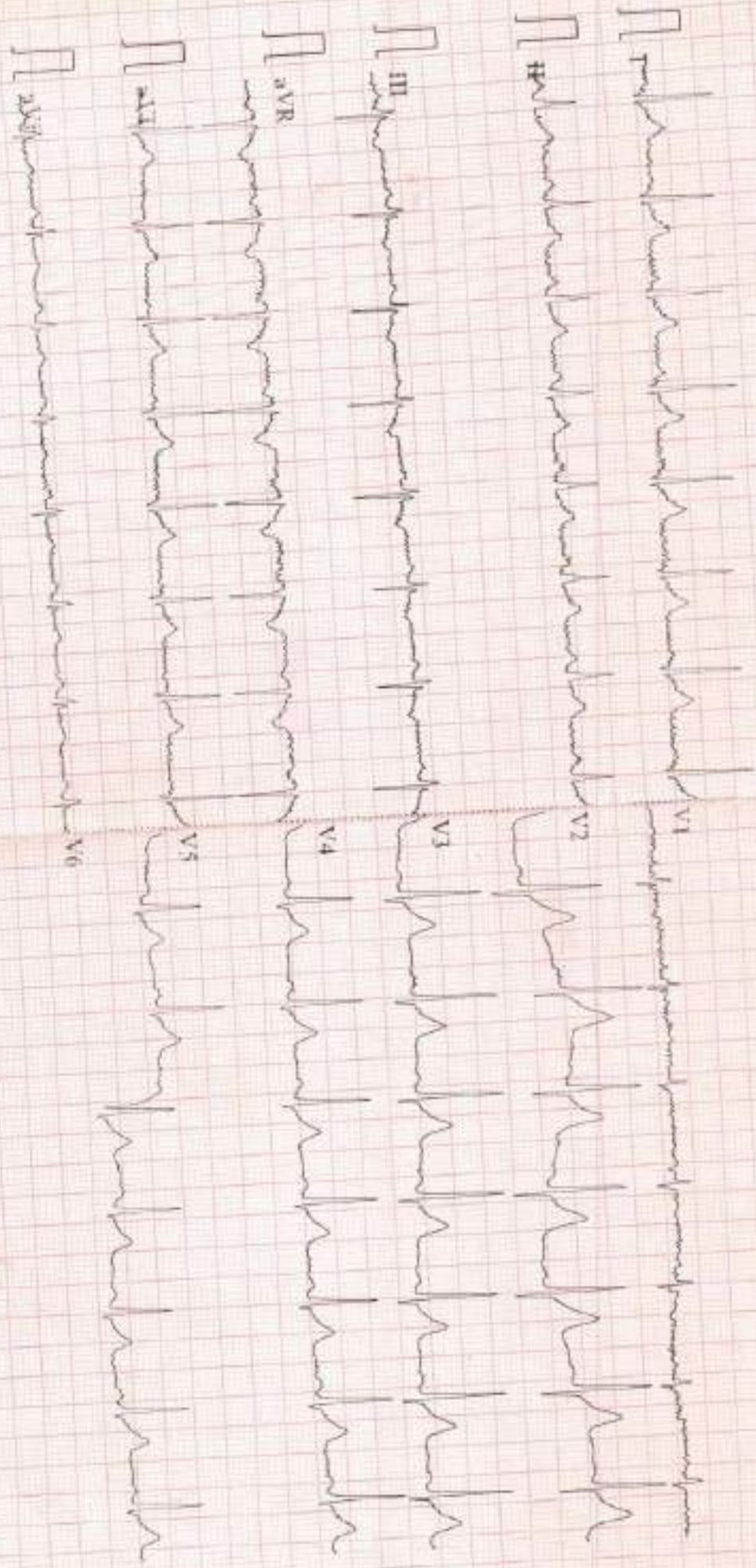
ID: 10009
Subhamalick
Male 28 Years

19-04-2024 02:20:51 PM
HR 89 bpm
P 96 ms
PR 136 ms
QRS 76 ms
QT/QTcBz 128/395 ms
PQRST 50/16/12
RV5/SV1 1.0/1.0/2.0 mV

Diagnosis Information:
Sinus rhythm
Normal ECG

Ref Phys:
Report Confirmed by:

Dr. Sagar Kerkar
MBBS, MD
REG NO. CGMC/457201
ANUPAM DIAGNOSTIC
KOTRA ROAD RAIGARH





Dr. Arun Kedia's 5D World

अनुपम डायग्नोस्टिक

Believe in the best

डॉ. अरुण केडिया

M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037/2010

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर

डॉ. सोनल केडिया

M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained From : टाटा मेमोरियल हॉस्पिटल मुंबई

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102, 93010 10729

अग्रवाल एग्रीकल्चर एवं तेल दुकान के सामने, सिटी हॉस्पिटल के आगे, कोतवा रोड, सलीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001



रायगढ़ जिले का एकमात्र आधुनिकतम 1.5 Tesla MRI, 96 Slice CT Scan and 5D सोनोग्राफी सेंटर

NAME:MR .SUBHAM MALLIK

AGE : 28Y/M

REF. BY: OHC(SAMBHAVI PLANT)

DATE:14.05.2024

SONOGRAPHY OF ABDOMEN AND PELVIS

(This ultrasound is performed by high end 4 D GE VOLUSON machine)

LIVER : The liver is normal in size, shape and has smooth margins. Its echotexture is **normal**. No SOL is seen. Intra-hepatic biliary radicals are not dilated.

GALL BLADDER : The gall bladder is well distended. No intra-luminal calculi or mass lesion is seen. Its wall thickness is normal.

COMMON BILE DUCT & PORTAL VEIN : The common bile duct is normal in caliber. No calculi are seen in it. The portal vein is normal in calibre and course.

SPLEEN : The spleen is normal in size and shape. Its echotexture is homogeneous. No evidence of focal lesion is noted.

PANCREAS : The pancreas is normal in size, shape, contours and echotexture. No evidence of solid or cystic mass lesion is noted.

KIDNEYS : Both kidneys have normal cortical echotexture and have smooth margins. Cortico-medullary differentiation is maintained. **No calculus or hydronephrosis is seen.**

URINARY BLADDER : The urinary bladder is well distended. It shows uniformly thin walls and sharp mucosa. No intra-luminal calculus or diverticulum is seen.

PROSTATE : The prostate is normal in size and shows well defined and sharp margins. The prostatic echotexture is normal and homogenous.

No free fluid is seen in the peritoneal cavity.

No obvious evidence of dilated/thickened bowel loops seen.

IMPRESSION : NO SIGNIFICANT ABNORMALITY.

ADVISED: Clinical correlation.

DR ARUN KEDIA
CONSULTANT & RADIOLOGIST



THIS USG IS FOR SCREENING PURPOSE ONLY. IT IS MEANT FOR SCREENING MAJOR HEALTH PROBLEMS IN INDUSTRIAL HEALTH WORKERS.



अनुपम डायग्नोस्टिक्स

Believe in the Best

डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्दप्रस्थ अण्णोली हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर



जयभारत एम्बेल्ड्ड पथ लैब मुम्बई का शाखा,

सिटी हॉस्पिटल के आगे, कोतरा रोड,

सतौगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

टाटा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. SHUBHAM MALICK

Patient ID : S03

Age / Gender : 28 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:26 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:44 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
PLANT CBC			
Hemoglobin (Hb)*	13.6	13 - 18	gm/dL
Total Leucocytes (WBC) Count*	6580	4000 - 10000	cell/cu.mm
Neutrophils	60	40 - 80	%
Lymphocytes	32	20 - 40	%
Monocyte	4	2-10	%
Eosinophils	04	1 - 6	%
Basophils	0	0 - 1	%
Platelet Count*	2.52	1.5 - 4.5	lakh/cumm
Erythrocyte (RBC) Count*	5.12	4.7 - 6.0	mil/cu.mm
RDW-SD	42.1	37.0 - 54.0	fl
RDW-CV	13.2	11.6 - 14.0	

Blood Group ABO & Rh Typing, Blood

Blood Group (ABO typing)

B

RhD Factor (Rh Typing)

Positive

Random Blood Sugar (RBS)

Blood Glucose Random

86.2

70.00 - 160.00

mg/dL

Note

Dr. Sonal Kedia
MBBS, MD (PATHOLOGY)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
VOTRA ROAD RAIPUR (C.G.)
M.B.B.S., MD

अनुपम डायग्नोस्टिक्स

ISO 9001:2015
CERTIFIED CENTRE

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्दिरा गणधीर हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर



रायपुर जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

रायपुर जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

सिटी हॉस्पिटल के आगे, कोटरा रोड,
सतीगुडी चौक, रायपुर (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राजा मेमोरियल हॉस्पिटल, गुवाहाटी

Patient Name : MR. SHUBHAM MALICK

Age / Gender : 28 years / Male

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Contact No. : -

Patient ID : S03

Medical Option Code :

Collection Time : Apr 20, 2024, 11:26 a.m.

Reporting Time : Apr 20, 2024, 03:44 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
Bilirubin - Indirect	0.26	0.2-0.8	mg/dL
SGOT	23.1	0-35	U/L
SGPT	26.1	0-45	U/L
Alkaline phosphatase	78	40-128	U/L
Total Protein	7.42	6.4 - 8.3	g/dL
Albumin	4.23	3.2 - 5.2	g/dL
Globulin	3.19	1.8 - 3.6	g/dL
A/G Ratio	1.33	1.2 - 2.2	

Dr. Sonal Kedia
MBBS, MD (PATHOLOGIST)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIPUR



अनुपम डायग्नोस्टिक्स

Believe in the Best

डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्दिरा अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एन.आई. हॉस्पिटल, रायपुर



जयभारत पश्चिमपुर, पंच राता पुष्पाग म. रायपुर

सिटी हॉस्पिटल के आगे, कोतरा रोड,

सतीगुदी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलैक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

लटा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. SHUBHAM MALICK

Patient ID : S03

Age / Gender : 28 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:26 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:44 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

(if > = 200 it is DM.(Atleast two occasion))

Lipid Profile

Cholesterol-Total	170	Desirable: <= 200 Borderline High: 200-239 High: > 240	mg/dL
Triglycerides	135.1	100-170	mg/dL
HDL Cholesterol	43.2	30-60	mg/dL
LDL Cholesterol	99.78	Optimal < 100 Near / Above Optimal 100-129 Borderline High 130-159 High 160-189 Very High >or = 190	mg/dL
VLDL Cholesterol	27.02	5-40	
CHOL/HDL Ratio	3.94	1.0-4.4	
LDL/HDL Ratio	2.31	0.50-3.00	

Note

1. 8-10 hours fasting sample is required.

Dr. Sonal Kedia
MBBS, MD (Pathology)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIPUR (C.G.)
M.B.B.S., MD



अनुपम डायग्नोस्टिक

Believe in the Best

डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्दरप्रस्थ अपीलॉ हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

रायगढ़ जिला अस्पताल के सामने रायगढ़ रोड पर स्थित

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीशगढ़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

टाटा मेमोरियल हॉस्पिटल, मुंबई

Patient Name : MR. SHUBHAM MALICK

Age / Gender : 28 years / Male

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Contact No. : -

Patient ID : S03

Medical Option Code :

Collection Time : Apr 20, 2024, 11:26 a.m.

Reporting Time : Apr 20, 2024, 03:44 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

Urobilinogen

Normal

Nitrite

NIL

Microscopic Examination

Epithelial Cells

2-4

0-2

/HPF

Pus Cell (WBCs)

0-2

0-2

/HPF

RBC

NIL

0-1

/HPF

Cast

NIL

0-0

/HPF

Crystals

NIL

/HPF

Bacteria

NIL

Other

NIL

kidney function test With Electrolyte

Urea *	26.1	11- 40	mg/dL
Blood Urea Nitrogen-BUN*	12.20	5- 20	mg/dL
Creatinine*	0.71	0.5 - 1.2	mg/dL
Uric Acid*	4.6	3.5 - 7.0	mg/dL

Lft, Liver Function Test

Bilirubin - Total	0.48	0.2-1.2	mg/dL
Bilirubin - Direct	0.22	0.2-1.0	mg/dL

Dr. Sonal Kedia
MBBS, MD (PATHOLOGY)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTIC
RAIPUR (C.G.)



अनुपम डायग्नोस्टिक्स

ISO 9001:2015
CERTIFIED CENTRE

Believe in the Best

डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्राक्स अस्पताल, दिल्ली

Ex. Consultant : एम.एन.आई. हॉस्पिटल, रायपुर



जबलपुर एम्बेस्सी रोड पर रायपुर का रास्ता

सिटी हॉस्पिटल के आगे, कौतरा रोड,
सतीगुदी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

लटा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. SHUBHAM MALICK

Patient ID : S03

Age / Gender : 28 years / Male

Medical Option Code :

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Collection Time : Apr 20, 2024, 11:26 a.m.

Contact No. : -

Reporting Time : Apr 20, 2024, 03:44 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

2. Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol

3. As per NCEP guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

Urine Routine Examination

Physical Examination

Volume	30	20 - 50	ml
Colour	pale yellow		
Appearance	Clear	Clear	
Reaction (pH)	6.0		
Specific gravity	1.020	1.003 - 1.030	

Chemical Examination

Urine Glucose (Sugar)	NIL
Urine Protein (Albumin)	NIL
Urine Ketones (Acetone)	Absent
Billurubin	NIL

Dr. Sonal Kedia
MBBS, MD (PATHOLOGIST)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIPUR
M.B.B.S., MD

FORM 21(Annexure)
[Prescribed Under Rule(19)]

Health Register

(In respect of persons employed in occupation declared to be dangerous operation under section 87)

PRE-EMPLOYMENT & PERIODIC MEDICAL EXAMINATION

Name : Chandan Ku Gond

Employee No. _____

Age (Years) : 26 y

Department : _____

Date : 19/04/24

Male / Female : ☒ Male

Designation : _____

(1) GENERAL EXAMINATION:

Height 167 Cm. Weight 62 Kg. BMI _____

Chest Inspiration: _____ Cm. Expiration: _____ Cm.

BUILT-Average/Strong/Poor. _____

Throat _____ Tongue _____

Teeth (M) Gums (N) Tonsils _____ Thyroid (N)

Lymph Nodes _____

Additional Findings _____

(2) CARDIO-VASCULAR SYSTEM

Pulse: 80 /Min. Regular/Irregular/Peripheral Pulse-Felt/Not Felt

B.P.: 115/76 mm of Hg. „

Heart Sound _____

Murmur, If Any: _____

Additional Finding(S), If Any: NO

(3) RESPIRATORY SYSTEM:P

Shape Of Chest: _____

Chest Movements: 1 NAD

Trachea: _____

Breath Sounds: _____

(4) GASTRO-INTESTINAL SYSTEM

Liver: MP Spleen: MP

Any Abdominal Lumps: NO

(5) EXAMINATION OF EYES:

External Exam: NAD Squint NO

Nystagmus: _____

Colour Vision-Normal/Defective

Fundus(L) _____ (R) _____

Individual Colour Identification-Normal/Defective

Distant Vision(Without Glasses) _____

Right 6/6 Left 6/6

Near Vision(Without Glasses) _____

Right N6 Left N6

With Glasses Right _____ Left _____

Night Blindness:(Nyctalopia): NO

(6) EXAMINATION OF EAR, NOSE & THROAT

External Exam: _____

(7) GENITOURINARY SYSTEM:

Hernia: _____ Hydrocele _____ Vepricocele _____

Cryptorchidism: (N) Phimosis _____

Varicose Veins _____ Signs Of STD (N)

Other Examination For FEMALES: _____

Menstrual History
Menarche At ----- Yrs. Gravidity -----
LMP -----

Obstetric History
PARA -----

Menstrual Irregularity If Any: -----

(8) LAB INVESTIGATIONS:

URINE: Albumin Nil / Sugar Nil / Microscopy ----- Stool -----
HAEMOGRAM

Blood Group O Rh factor +ve Hb 13.6 TLC 6580 RBC 5.01
DLC ----- PLEMB ----- Platelets Count 2.35

LIPID PROFILE
Serum Cholesterol 165 :S/Triglycerides 145.1
HDL 50.1 :LDL 77.88

HEPATIC PROFILE
SGPT 42.3 :SGOT: 32.2
Alkaline Phosphatase: 124.2

RENAL PROFILE:
Blood Urea 28.6 :S/Creatinine: 0.72

METABOLIC:
Blood Sugar-F ----- :Blood Sugar-PP: -----
Uric Acid 5.1 : RBS: 98.3

(9) OTHER INVESTIGATIONS:

X-ray Chest(In Normal persons once in three years
In case of any abnormality x-ray can be done at shorter intervals)

ECG(In case of any abnormality further tests should be carried out)

Ultra Sound Whole Abdomen(In normal persons once in three years in case of any abnormality can be done at shorter intervals)

Others -----

(10) PULMONARY FUNCTION TEST

	FVC	FEV 1	FEV 1/FVC
Predicted	<u>3.50</u>	<u>3.00</u>	<u>85.71</u>
Measured	<u>2.48</u>	<u>2.70</u>	<u>95.07</u>
% of predicted	<u>81</u>	<u>90</u>	<u>111</u>

Remarks: -----

(11) Audiometry Examination-PTA of both ears at frequency of 125,250,500,1000,2000,4000,8000,cycles per second -----

(12) Medical Examination of canteen staff

- a-Blood examination for venereal disease and routine blood examination.
- b- Stool and urine examination for worm infection.
- c- Screening for skin diseases(Scabies and others)
- d- x-ray and other tests for T.B.

NA NA

(13) Details of other specific medical examination carried out as mentioned in the respective schedules of rule 107 of C.G. Factories rules 1962-

Dr. Sonal Kedia

MBBS, MD

NO. CGMC/4457/2012
ANIPAM DIAGNOSTICS

Signature (with Date) of
Factory Medical Officer
9/9/2024

ANUPAM DIAGNOSTICS

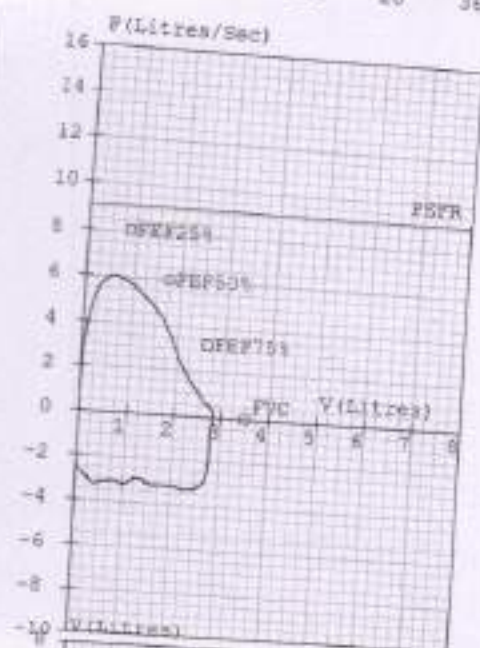
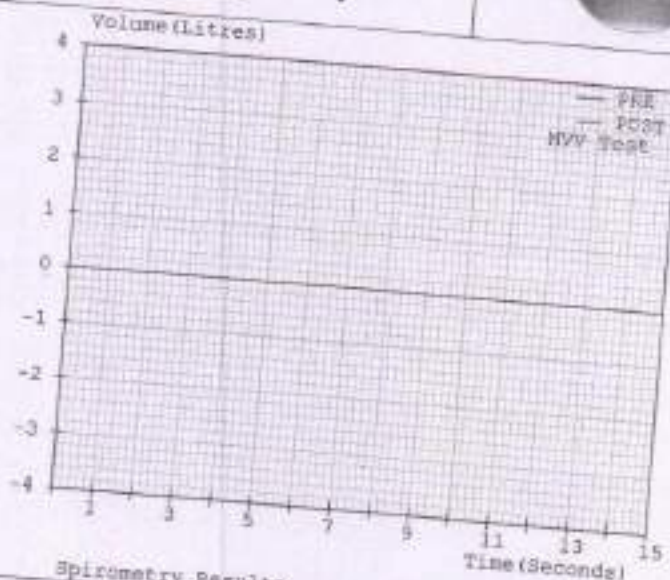
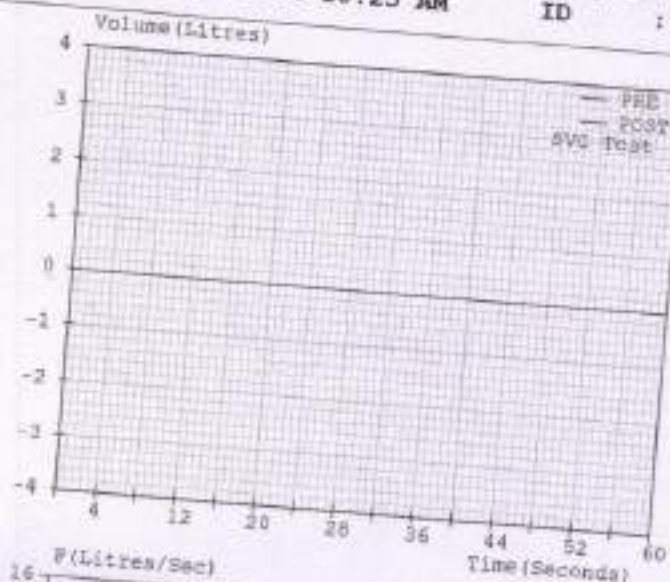
KOTRA ROAD, RAIGARH (C.G.)

Patient: CHANDAN KUMAR GOND
Refd. By:
Pred. Eqs: RECORDERS
Date : 19-Apr-2024 10:25 AM

Age : 26 Yrs
Height : 167 Cms
Weight : 62 Kgs
ID : 500

Gender : Male
Smoker : No
Eth. Corr: 100
Temp :

RMS



Spirometry Results						
Parameter	Pred	M. Pre	%Pred	M. Post	%Pred	%Imp
FVC (L)	03.50	02.84	081			
FEV1 (L)	03.00	02.70	090			
FEV1/FVC (%)	85.71	95.07	111			
FEF25-75 (L/s)	04.51	04.20	093			
PEFR (L/s)	09.13	05.97	065			
FEV.5 (L)		02.96				
FEV3 (L)		02.22				
PIFR (L/s)	03.39	02.84	084			
FEF75-85 (L/s)		03.28				
PEF.2-1.2 (L/s)		01.54				
PEF 25% (L/s)	07.69	05.63	073			
PEF 50% (L/s)	08.06	05.94	074			
PEF 75% (L/s)	05.96	04.84	081			
FEV.5/FVC (%)	03.25	02.15	066			
FEV3/FVC (%)		78.17				
FEV (Sec)	96.86	100.00	103			
Exp1 time (Sec)		01.38				
Lung Age (Yrs)		00.09				
FEV6 (L)	026	029	112			
PIF 25% (L/s)	03.50					
PIF 50% (L/s)		03.16				
PIF 75% (L/s)		02.91				
SVC (L)		03.16				
ERV (L)						
IRV (L)	01.52					
VE (L/min)						
RI (l/min)						
Ti (sec)						
Te (sec)						
VT (L)						
VT/Ti						
Ti/Ttot						
IC (L)						
MVV (L/min)	141					
MRI (l/min)						
MVT (L)						

Dr. Sonal Kedia
RE MBBS, MD
REG NO. CGMC4457
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIGARH



Dr. Arun Kedia's 5D World

अनुपम डायग्नोस्टिक

Believe in the best

डॉ. अरूण केडिया

M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037/2010

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर

डॉ. सोनल केडिया

M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained From : टाटा मेमोरियल हॉस्पिटल मुंबई



ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102, 93010 10729

अग्रवाल एग्रीकल्चर एवं तेल दुकान के सामने, सिटी हॉस्पिटल
के आगे, कोतवा रोड, सलीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

रायगढ़ जिले का एकमात्र आधुनिकतम 1.5 Tesla MRI, 96 Slice CT Scan and 5D सोनोग्राफी सेंटर

NAME: MR .CHANDAN KUMAR GOND/5

AGE : 26Y/M

REF. BY: OHC(SAMBHAVI PLANT)

DATE: 01.05.2024

X-RAY CHEST P.A. VIEW

OBSERVATIONS:

- ❖ Bilateral lung fields are clear.
- ❖ Trachea and mediastinum are central.
- ❖ Heart size and contour is normal. Cardio-thoracic ratio is within normal limits.
- ❖ Both the hila appear normal.
- ❖ Costophrenic angles appear sharp and clear.
- ❖ Both dome of diaphragm are clearly visualized.
- ❖ Bony thoracic cage and soft tissue are normal.

IMPRESSION: -

- No evidence of occupational lung diseases detected
- No radiological signs of:
 - Pneumoconiosis.
 - Silicosis.
 - Chronic bronchitis.
 - Emphysema
 - Occupational asthma



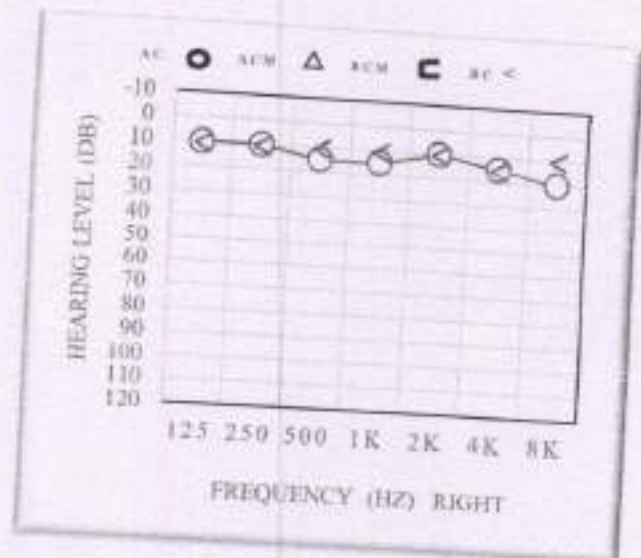
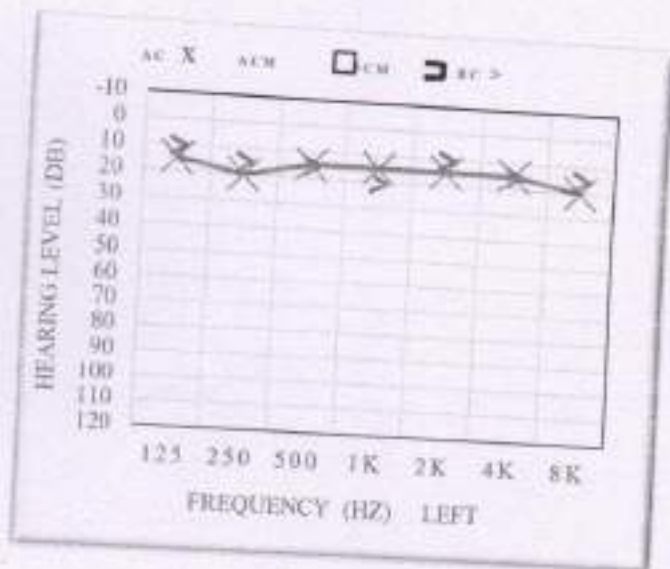
ANUPAM DIAGNOSTICS

AUDIOMETER : ANUPAM DIAGNOSTICS

REF. BY :

DATE:- 19.04.2024
NAME : CHANDAN KUMAR GOND
AGE / SEX 26/M
COMPANY : SHAMBHAVI
S.NO. :

AUDIOGRAM



EAR \ MODE	AIR CONDUCTION		BONE CONDUCTION		COLOUR CODE	THRESHHOLD IN dB		LEFT	RIGHT
	MASKED	UNMASKED	MASKED	UNMASKED		AIR CONDUCTION	BONE CONDUCTION		
LEFT	□	×	⌋	>	BLUE			15	13.33333
RIGHT	△	○	⌈	<	RED				
NO RESPONSE : ADD ↓ BELOW THE RESPECTIVE SYMBOLS						SPEECH			

REMARK :

Dr. Bonaf Kedia
MBBS, MD
REG NO. DGMCA457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIGAD



ID: 99687
chandan kumar
Male 26 Years

19-04-2024 11:57:43 AM
HR : 57 bpm
P : 98 ms
PR : 160 ms
QRS : 98 ms
QT/QTcBz : 382/372 ms
PQRST : 1369/45 ms
RV5SV1 : 1.229/0.788 mV

Diagnosis Information:
Sinus bradycardia
Normal ECG except for rate

Ref-Phys. :
Report Confirmed by:

Dr. S. K. Kedia
MBBS, MD
REG NO. CGMC4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIGARH (C.G.)



0.05-35Hz AC/50 25mm/s 100mV/10s CARDIART 9108

146 Glasgow V286.7 ANUPAM DIAGNOSTICS RAIGARH



Dr. Arun Kedia's 5D World

अनुपम डायग्नोस्टिक

Believe in the best

डॉ. अरूण केडिया

M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037/2010

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर

डॉ. सोनल केडिया

M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained From : टाटा मेमोरियल हॉस्पिटल मुंबई

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102, 93010 10729

अग्रवाल एग्रीकल्चर एवं तेल दुकान के सामने, सिटी हॉस्पिटल
के आगे, कोतवा रोड, सलीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001



रायगढ़ जिले का एकमात्र आधुनिकतम 1.5 Tesla MRI, 96 Slice CT Scan and 5D सोनोग्राफी सेंटर

NAME: MR. CHANDAN KUMAR GOND / 5

AGE : 26Y/M

REF. BY: (IHC) SAMBHAVI

DATE: 02.05.2024

SONOGRAPHY OF ABDOMEN AND PELVIS

(This ultrasound is performed by high end 4 D GE VOLUSON machine)

LIVER : The liver is normal in size, shape and has smooth margins. Its echotexture is normal. No SOL is seen. Intra-hepatic biliary radicals are not dilated.

GALL BLADDER : The gall bladder is well distended. No intra-luminal calculi or mass lesion is seen. Its wall thickness is normal.

COMMON BILE DUCT & PORTAL VEIN : The common bile duct is normal in caliber. No calculi are seen in it. The portal vein is normal in calibre and course.

SPLEEN : The spleen is normal in size and shape. Its echotexture is homogeneous. No evidence of focal lesion is noted.

PANCREAS : The pancreas is normal in size, shape, contours and echotexture. No evidence of solid or cystic mass lesion is noted.

KIDNEYS : Both kidneys have normal cortical echotexture and have smooth margins. Cortico-medullary differentiation is maintained. *No calculus or hydronephrosis is seen.*

URINARY BLADDER : The urinary bladder is well distended. It shows uniformly thin walls and sharp mucosa. No intra-luminal calculus or diverticulum is seen.

PROSTATE : The prostate is normal in size and shows well defined and sharp margins. The prostatic echotexture is normal and homogenous.

No free fluid is seen in the peritoneal cavity.

No obvious evidence of dilated/thickened bowel loops seen.

IMPRESSION : NO SIGNIFICANT ABNORMALITY

ADVISED: Clinical correlation.



THIS USG IS FOR SCREENING PURPOSE ONLY. IT IS MEANT FOR SCREENING MAJOR HEALTH PROBLEMS IN INDUSTRIAL HEALTH WORKERS.

अनुपम डायग्नोस्टिक्स

ISO 9001:2015
CERTIFIED CENTRE

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : अनुपम अस्पताल हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर

जयभारत एडमिनिस्ट्रेशन प्राइवेट लिमिटेड, रायपुर

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राजा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. CHANDAN KUMAR GOND

Age / Gender : 26 years / Male

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Contact No. : -

Patient ID : S05

Medical Option Code :

Collection Time : Apr 20, 2024, 11:31 a.m.

Reporting Time : Apr 20, 2024, 04:58 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
PLANT CBC			
Hemoglobin (Hb)*	13.6	13 - 18	gm/dL
Total Leucocytes (WBC) Count*	6580	4000 - 10000	cell/cu.mm
Neutrophils	60	40 - 80	%
Lymphocytes	30	20 - 40	%
Monocyte	5	2-10	%
Eosinophils	05	1 - 6	%
Basophils	0	0 - 1	%
Platelet Count*	2.35	1.5 - 4.5	lakh/cumm
Erythrocyte (RBC) Count*	5.01	4.7 - 6.0	mil/cu.mm
RDW-SD	42.1	37.0 - 54.0	f
RDW-CV	13.2	11.6 - 14.0	

Blood Group ABO & Rh Typing, Blood

Blood Group (ABO typing)

O

RhD Factor (Rh Typing)

Positive

Random Blood Sugar (RBS)

Blood Glucose Random

98.3

70.00 - 160.00

Note

mg/dL

Dr. Sonal Kedia
MBBS, MD (PATHOLOGY)
REG NO. CGMC4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD RAIPUR



अनुपम डायग्नोस्टिक्स

ISO 9001:2015
CERTIFIED CENTRE

Believe in the Best



डॉ. अरुण केडिया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्दिरा अपोलो हॉस्पिटल, दिल्ली

Ex. Consultant : एम.एच.आई. हॉस्पिटल, रावपुर

जयशंकर एम्बेडकर स्मृति चिकित्सकीय संस्थान,

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केडिया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

टाटा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. CHANDAN KUMAR GOND

Age / Gender : 26 years / Male

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Contact No. : -

Patient ID : S05

Medical Option Code :

Collection Time : Apr 20, 2024, 11:31 a.m.

Reporting Time : Apr 20, 2024, 04:58 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
Bilirubin - Indirect	0.54	0.2-0.8	mg/dL
SGOT	32.2	0-35	U/L
SGPT	42.3	0-45	U/L
Alkaline phosphatase	124.2	40-128	U/L
Total Protein	7.24	6.4 - 8.3	g/dL
Albumin	4.27	3.2 - 5.2	g/dL
Globulin	2.97	1.8 - 3.6	g/dL
A/G Ratio	1.44	1.2 - 2.2	

Dr. Sonal Kedia
M.B.B.S., M.D. (Pathology)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
Dr. Sonal Kedia

अनुपम डायग्नोस्टिक्स

ISO 9001:2015
CERTIFIED CENTRE

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अस्पताल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर

जयभारत एडवांस्ड एम.आई. डायग्नोस्टिक्स प्रा. लि.

सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुड़ी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राजा मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. CHANDAN KUMAR GOND

Age / Gender : 26 years / Male

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Contact No. : -

Patient ID : S05

Medical Option Code :

Collection Time : Apr 20, 2024, 11:31 a.m.

Reporting Time : Apr 20, 2024, 04:58 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

(if > = 200 it is DM.(Atleast two occasion))

Lipid Profile

Cholesterol-Total

165

Desirable: <= 200

mg/dL

Borderline High: 200-239

High: > 240

Triglycerides

145.1

100-170

mg/dL

HDL Cholesterol

58.1

30-60

mg/dL

LDL Cholesterol

77.88

Optimal < 100

mg/dL

Near / Above Optimal 100-129

Borderline High 130-159

High 160-189

Very High >or = 190

VLDL Cholesterol

29.02

5-40

CHOL/HDL Ratio

2.84

1.0-4.4

LDL/HDL Ratio

1.34

0.50-3.00

Note

1. 8-10 hours fasting sample is required.

Dr. Sonal Kedia
M.B.B.S., M.D. (PATHOLOGY)
REG NO. CGMC 4457/2012
ANUPAM

ISO 9001:2015
CERTIFIED CENTRE

अनुपम डायग्नोस्टिक्स

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्द्रप्रस्थ अस्पताल, दिल्ली

Ex. Consultant : एम.एम.आई. हॉस्पिटल, रायपुर



सिटी हॉस्पिटल के आगे, कोतरा रोड,

सतीगुडी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021

अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राज मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. CHANDAN KUMAR GOND

Age / Gender : 26 years / Male

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Contact No. : -

Patient ID : S05

Medical Option Code :

Collection Time : Apr 20, 2024, 11:31 a.m.

Reporting Time : Apr 20, 2024, 04:58 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

Urobilinogen

Normal

Nitrite

NIL

Microscopic Examination

Epithelial Cells

0-2

0-2

/HPF

Pus Cell (WBCs)

0-1

0-2

/HPF

RBC

NIL

0-1

/HPF

Cast

NIL

0-0

/HPF

Crystals

NIL

/HPF

Bacteria

NIL

Other

NIL

kidney function test With Electrolyte

Urea *

28.6

11- 40

mg/dL

Blood Urea Nitrogen-BUN*

13.36

5- 20

mg/dL

Creatinine*

0.72

0.5 - 1.2

mg/dL

Uric Acid*

5.1

3.5 - 7.0

mg/dL

Lft, Liver Function Test

Bilirubin - Total

0.78

0.2-1.2

mg/dL

Bilirubin - Direct

0.24

0.2-1.0

mg/dL

Dr. Sonal Kedia

M.B.B.S., M.D. (Pathology)

REG NO. CGMC 4457/2012

ANUPAM DIAGNOSTICS

अनुपम डायग्नोस्टिक्स

ISO 9001:2015
CERTIFIED CENTRE

Believe in the Best

डॉ. अरुण केड़िया M.B.B.S., D.M.R.D.

Reg. No.: CGMC 3037

Consultant Radiologist

Ex. Registrar : इन्टरमिडियट अस्पताल, दिल्ली

Ex. Consultant : एम.एच.आई. हॉस्पिटल, रायपुर



जयपुरी पत्राचारक एम.एच.आई. मुकाम पर सामग्री,
सिटी हॉस्पिटल के आगे, कोतरा रोड,
सतीगुदी चौक, रायगढ़ (छ.ग.) - 496001

ब्लड कलेक्शन हेतु : 62327 21021
अग्रिम पंजीयन हेतु : 72250 20102

डॉ. सोनल केड़िया M.B.B.S., M.D.

Reg. No.: CGMC 4457/2012

Consultant Pathologist

Sp. Trained from :

राष्ट्र मेमोरियल हॉस्पिटल, मुंबई

रायगढ़ जिले का एक मात्र आधुनिकतम 1.5 TESLA MRI, 96 SLICE CT SCAN AND 4D सोनोग्राफी सेन्टर

Patient Name : MR. CHANDAN KUMAR GOND

Age / Gender : 26 years / Male

Referral : Dr. SHAMBHAVI ISPAT PVT LTD.

Contact No. : -

Patient ID : S05

Medical Option Code :

Collection Time : Apr 20, 2024, 11:31 a.m.

Reporting Time : Apr 20, 2024, 04:58 p.m.

Test Description	H/L Value(s)	Reference Range	Unit(s)
------------------	--------------	-----------------	---------

2. Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol

3. As per NCEP guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

Urine Routine Examination

Physical Examination

Volume	30	20 - 50	ml
Colour	pale yellow		
Appearance	Clear	Clear	
Reaction (pH)	6.0		
Specific gravity	1.020	1.003 - 1.030	

Chemical Examination

Urine Glucose (Sugar)	NIL
Urine Protein (Albumin)	NIL
Urine Ketones (Acetone)	Absent
Billurubin	NIL

Dr. Sonal Kedia
M.B.B.S., MD (PATHOLOGY)
REG NO. CGMC 4457/2012
ANUPAM DIAGNOSTICS
KOTRA ROAD