

Ref:

Date: 18.01.2024

To,
Regional Officer
Integrated Regional Office,
Ministry of Environment, Forest & Climate Change
Aranya Bhawan, North Block, Sector – 19, Naya Raipur,
Atal Nagar, Chhattisgarh
Mail id: iroraipur@gmail.com

Sub: Submission of Six-monthly compliance report for Period **from Jan 2023 to June 2023** on conditions stipulated in Environmental Clearance issued for 0.96 MTPA wet type coal washery located at Gatora Village, Masturi Tehsil, Bilaspur District, Chhattisgarh.

Ref: EC issued by SEIAA, CG vide F.No. 545/SEIAA-CG/EC/Coal Wash/BSP/228 dt. 22nd July 2013

Dear Sir,

With reference to the above & condition stipulated in the EC vide dt. 22nd July 2013, we are herewith submitting the Six-monthly compliance report for a period from Jan 2023 to June 2023 on conditions stipulated in Environmental Clearance issued for 0.96 MTPA wet type coal washery, by SEIAA, CG vide F.No. 545/SEIAA-CG/EC/Coal Wash/BSP/228 dt. 22nd July 2013, duly mentioning the status of compliance for the above-mentioned period.

We request your good selves to take same on record and acknowledge the same.

Thanking you,
Your faithfully



Authorized Signatory
Hind Energy & Coal Benefication (I) Pvt. Ltd.
Encl: a/a

Six Monthly Environment Clearance Compliance Report (Period: January 2023 to June 2023)

for

Environment Clearance obtained for change in technology of coal washery 0.96 MTPA proposed to vide order F. No.545/SEIAA-CG/EC/COAL WASH/BSP/228, Raipur dated 22nd JULY 2013 located at Gatora Village, Masturi Tehsil, Bilaspur District, Chhattisgarh

Submitted by

Hind Energy & Coal Beneficiation (I) Pvt Ltd
Gatora Village, Masturi Tehsil, Bilaspur District, Chhattisgarh

Submitted to

Integrated Regional Office,
Ministry of Environment, Forest & Climate Change
Aranya Bhawan, North Block, Sector – 19, Naya Raipur, Atal Nagar, Chhattisgarh
Mail id: iroraipur@gmail.com

Prepared by



2nd Floor, A-Z Elite, Plot No. 197, Kavuri Hills, Madhapur, Hyderabad -500081 mail id:
info@pioneerenvirolabs.com, Ph.No.: 040-23114270

Accredited by



Hind Energy & Coal Beneficiation (I) Pvt Ltd (Gatora)

Six Monthly EC Compliance (Period: January 2023 to June 2023)

Introduction about the project

Hind Energy & Coal Beneficiation (I) Pvt Ltd (HECBIPL) is an established a coal washery plant at Gatora Village, Masturi Tehsil, Bilaspur District, Chhattisgarh. Hind Energy & Coal Beneficiation (I) Pvt Ltd proposed to coal washery 0.96 MTPA.

Accordingly, HECBIL has obtained Environment Clearance from SEIAA, CG vide F. No. 545/SEIAA-CG/EC/COAL WASH/BSP/228, Raipur dated 22nd JULY 2013 As per the EC condition no. 35 “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”.

COMPLIANCE TO THE CONDITIONS STIPULATED IN ENVIRONMENT CLEARANCE

S.No.	Conditions	Compliance by Project Proponent
1.	Land requirement shall be 13.92 acre, built up area - 2.5 acre, Ancillaries & Storage - 4.67 acre, Internal Roads - 1.75 acre, green belt area - 5.0 acre.	Noted, coal washery established in 2.5 acres, material storage area is 4.67 acres and 1.75 acres land is using for internal roads and 5.0 acres of land used for green belts development
2.	Project proponent shall ensure that annual through put capacity of the coal washery shall not exceed (0.96 million tonnes /annum.)	Noted and will be complied
3.	Copy of agreement for raw coal supply and copy of agreement for use of rejects and fines shall be submitted before commissioning of washery.	Noted & Agreed
4.	No water bodies (including natural drainage system) in the area shall be disturbed due to activities associated with the setting up/operation of the washery.	We do here by confirm, that no water bodies in the area will be disturbed due to coal washery. However, the plant will be operated on Zero Discharge Concept and no effluent is being drained outside the plant premises.
5.	Project proponent shall provide adequate facility for proper treatment of industrial and domestic effluent. Treated/un-treated effluent collection pond shall be lined suitably to prevent seepage in to ground for avoiding ground water contamination. All the effluent treatment system 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. Project proponent shall ensure the treated effluent quality within standard	<ul style="list-style-type: none">• Closed loop water system is being practices in the existing plant.• As the washery is Heavy media-based coal washery, water after washing will be recycled back in the process.• The effluent from the plant is sent to the thickener and flocculants are settlement of suspended solids and helps to give a clearer overflow.• The settled solids are collected at the bottom cone of the thickener tank.

	<p>prescribed by Ministry of Environment & Forests, Government of India or Chhattisgarh Environment Conservation Board. Raipur (whichever is stringent).</p>	<ul style="list-style-type: none"> • The solids which are collected in the bottom of the thickener are pumped to the multirole belt press for reclamation of water. The solid dried cake is blended with rejects. • The overflow of the thickener which is clear water is being recycled back in the process. • Collection ponds has been provided with stable liner to avoid ground water contamination. • The proposed plant is a zero-effluent plant and the process selected ensures reduction in dust generation and emission. • Sanitary water is being generated from the plant, which is being treated in Septic tank followed by soak pit. • Monitoring & analysis of wastewater generated is being carried out regularly. Kindly refer to Annexure – 1 for analysis reports.
6.	<p>Any liquid effluent what so ever generated from industrial activities shall not be discharged into the river or any surface water bodies under any circumstances, and it shall be reused wholly in the process/plantation within premises. All the industrial effluent generated shall be re-circuited/reused after proper treatment. The un-treated/treated domestic effluent shall not be discharged into the river or any surface water bodies. The treated domestic effluent shall be used for plantation purpose after proper disinfection. Project proponent shall make proper arrangements of suitable drains/pipe networks to ensure adequate flow for utilization of treated effluent inside the premises. The concept of zero discharge shall be maintained all the time except during monsoon. Arrangements shall be made that effluents and storm water do not get mixed.</p>	<ul style="list-style-type: none"> • Closed loop water system is being practices in the existing plant. • As the washery is Heavy media-based coal washery, water after washing will be recycled back in the process. • The effluent from the plant is sent to the thickener and flocculants are settlement of suspended solids and helps to give a clearer overflow. • The settled solids are collected at the bottom cone of the thickener tank. • The solids which are collected in the bottom of the thickener are pumped to the multirole belt press for reclamation of water. The solid dried cake is blended with rejects. • The overflow of the thickener which is clear water is being recycled back in the process. • Collection ponds has been provided with stable liner to avoid ground water contamination.

		<ul style="list-style-type: none"> The proposed plant is a zero-effluent plant and the process selected ensures reduction in dust generation and emission. Sanitary water is being generated from the plant, which is being treated in Septic tank followed by soak pit. Kindly refer to Annexure – 2 showing effluent treatment facility i.e. settling pond, collection pond etc.
7.	Project proponent shall provide adequate measuring arrangements for the measurement of water utilized in different categories and effluent generated before commissioning of the plant.	<ul style="list-style-type: none"> Separate water meters have been provided to measure water consumption at different sections. Kindly refer Annexure – 3 showing water meters
8.	Water consumption shall not exceed 495 cum/day (process - 490 cum/day, domestic - 5.0 cum/day). Water will be sourced from ground water. Water requirement shall be optimized. Wet process based on closed water cycle system shall be adopted.	<ul style="list-style-type: none"> We assure that, our total water consumption will not exceed 495 cum/day (i.e. process 490 cum / day and domestic 05 cum / day) Closed loop water system is being practiced in the existing plant. NOC from Central Ground Water Authority (CGWA) has been obtained vide no. 21-4/121/NCCR/CGWA/2011-642 and same is valid till 06/06/2019 to 05/06/2024. Kindly refer to Annexure – 4 for same
9.	Project proponent shall provide adequate air pollution control arrangements such 'as bag filters at all point and non point sources for the control of air pollutants emission from processes / operations and for the control of emission during the handling & transportation of raw coal/rejects etc. shall be installed before commissioning of the plant and maintained in proper order during operation. Project proponent shall install suitable & effective air pollution control equipment's at all transfer points. junction points etc., also. All the conveying system, transfer point, junction point etc. shall be covered. The particulate emissions from any point source shall no exceed to 50 mg/Nm3 under any circumstances.	<p>High efficiency Bag filters have been provided to coal crushing unit to achieve Particulate Matter emission of less than 50 mg / Nm3 as per stipulated norms. Kindly refer to Annexure – 5 showing photographs of Bag filter.</p> <p>Water sprinklers are provided on the internal roads, transfer points, junctions etc. Kindly refer to Annexure – 6 showing water sprinklers.</p> <p>All the conveyers in the plant are covered. Kindly refer to Annexure – 7 showing photographs of covered conveyers.</p>

10.	<p>Raw coal will be sourced from (Mine of SECL, (Bilaspur / Korba) through customers. Transportation of raw coal from mines to washery site shall be by rail up to Gatora railway station and a dedicated railway siding is proposed to be laid at Gatora railway station and from there in covered trucks by road up to the site. Washed coal shall be transported by road in covered trucks directly to the customer (or) by road up to Gatora and from there by rail to the customer. In case of transportation of raw coal I rejects by road, the project proponent shall maintain fugitive dust emissions to the minimum' level in the areas of road transportation routes to ensure compliance National Ambient Air Quality Standards prescribed including black topping/asphalting/concreting and maintenance with requisite water sprinkling arrangements. Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.</p>	<p>A dedicated Railway siding has been provided for transportation of raw coal from the mines. Kindly refer to Annexure - 8 showing photographs of railway siding.</p> <p>Washed coal from the plant will be transported by road in covered trucks directly to the customer (or) by road up to Gatora Railway siding and from there by rail to the customer. The mode of transport of washed coal will depend on the MoU with the customers who may have either road transport or rail transport.</p> <p>Kindly refer to Annexure - 9 for Fugitive emission monitoring report</p> <p>Kindly refer to Annexure - 10 for PUC of vehicles</p>
11.	<p>Project proponent shall provide adequate air pollution control arrangements such 'as bag filters at all point and non point sources for the control of air pollutants emission from processes / operations and for the control of emission during the handling & transportation of raw coal/rejects etc. shall be installed before commissioning of the plant and maintained in proper order during operation. Project proponent shall install suitable & effective air pollution control equipment's at all transfer points. junction points etc., also. All the conveying system, transfer point, junction point etc. shall be covered. The particulate emissions from any point source shall no exceed to 50 mg/Nm3 under any circumstances. Project proponent shall provide adequate air pollution control arrangements such 'as bag filters at all point and non point sources for</p>	<p>Interlocking facility has been provided in the existing plant, so that whenever air pollution control systems fails, production unit will be stopped and will be restarted only after rectification.</p>

	the control of air pollutants emission from processes / operations and for the control of emission during the handling & transportation of raw coal/rejects etc. shall be installed before commissioning of the plant and maintained in proper order during operation. Project proponent shall install suitable & effective air pollution control equipment's at all transfer points. junction points etc., also. All the conveying system, transfer point, junction point etc. shall be covered. The particulate emissions from any point source shall no exceed to 50 mg/Nm3 under any circumstances.	
12.	Adequate number of permanent ambient air quality monitoring stations (not less than four) in the core zone as well as buffer zone for PM2.5,NOX and SO2 shall be set-up in the down wind direction as well as where maximum ground level concentrations are anticipated in consultation with the Chhattisgarh Environment Conservation Board. Monitoring net-work shall be designed taking into account the environmentally and ecologically sensitive targets, land use pattern, location of the stacks, meteorological conditions and topographic features including existing ambient air quality data.The data so collected shall be properly analyzed and submitted to The Chhattisgarh Environment Conservation Board, Raipur, Regional Office,Chhattisgarh Environment Conservation Board, Raigarh, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment & Forests, Government of India, Bhopal in every six months.	Ambient air quality monitoring is being carried out by third party in the four locations. Kindly refer to Annexure –11 for AAQ monitoring reports. Report are being submitted regularly to the CECB and Regional Office, MoEF&CC.
13.	Project proponent shall install separate electric metering arrangements with time totalizer and interlocking arrangement for the running of pollution control devices. These arrangements shall be made in such a fashion that any non-functioning of pollution control device/devices shall immediately stop the electric supply to the raw coal supply system and shall remain	Interlocking facility has been provided in the existing plant, so that whenever air pollution control systems fails, production unit will be stopped and will be restarted only after rectification

	tripped till the pollution control device/devices are made functional again/rectified to achieve the desired efficiency.	
14.	The raw coal, washed coal and coal wastes (rejects) shall be stacked properly at earmarked site (s) within stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that the stored minerals do not catch fire.	<ul style="list-style-type: none"> Coal stock yard (Raw coal, Washed coal & Washery rejects) are kept in Storage yard with pucca platform above ground level provided with boundary walls. Garland drains are provided all-round the storage yard. The runoff water from the yard will enter into garland drain and will be collected in settling tank. The supernatant is being utilized in the process. Stock pile area are provided with automatic garden type sprinklers for dust suppression as well as to reduce spontaneous ignition of coal stock piles, necessary water distribution network is provided for distributing water at all transfer points, crusher house, control room, etc.
15.	Project proponent shall take effective steps for safe disposal of solid wastes and sludge. Project proponent shall obtain authorization from Board for management and handling of hazardous materials as per Hazardous Wastes (Management, Handling and Trans boundary Movement) Rules, 2008 (if required).	<ul style="list-style-type: none"> 0.72 MTPA of washery rejects generated from the entire plant and is being given to nearby reject based power plant. Hazardous waste generated such as used oil & used batteries are being given to authorized recyclers. Authorisation from CECB has been obtained.
16.	All the internal roads shall be made pucca before commissioning of plant. The project proponent shall adopt good house keeping practices. The road shall be regularly cleaned. Avenue plantation shall be developed along the roads. Facilities for parking of vehicles/trucks carrying coal, waste rejects shall be created within the unit premises. No public place shall be used for parking vehicles/trucks.	<p>Internal roads are made pucca to prevent the fugitive dust emission due to vehicular movement. Kindly refer to Annexure –8 showing photographs of pucca internal roads.</p> <p>Water sprinklers are provided on the internal roads. Kindly refer to Annexure – 6 showing water sprinklers.</p> <p>1.5 Acres of area is allocated for parking of truck in the project area.</p>
17.	Project proponent shall take proper action to control the noise pollution. Project proponent 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	<ul style="list-style-type: none"> Noise generating equipment's/machinery are provided the sound absorbing materials by the suppliers. PPE like ear plugs have been provided to the personals working near crushing areas and other noise prone areas. Awareness is provided to the personals by means of banners and slogans written at

	<p>provided to the employee working in the high noise areas. The noise level shall not exceed the limits 75 dB (A) during the day-time and 70 dB (A) during the night-time within the factory premises. Project proponent shall take adequate measures for control of noise level below 85 dB (A) in the work environment. Workers engaged in noisy areas shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including rotating them to non-noisy/less noisy areas.</p>	<p>appropriate places.</p> <ul style="list-style-type: none"> Noise level monitoring is being carried out periodically at various locations in the plant premises. Kindly refer to Annexure – 12 for monitoring report of the same.
18.	<p>Project proponent 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 propose site. 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.</p>	<ul style="list-style-type: none"> Covered trucks are being utilized for transportation of Raw Coal, Washed Coal and Washery rejects outside the washery up to the railway siding, wherever possible kindly refer Annexure -13 showing covered trucks High efficiency Bag filters have been provided to coal crushing unit and regular sprinkling is being done. Kindly refer to Annexure –5 showing photographs of Bag filter. Internal roads are made pucca to prevent the fugitive dust emission due to vehicular movement. Kindly refer to Annexure – 14 showing photographs of internal roads. Water sprinklers are provided on the internal roads. Kindly refer to Annexure– 6 showing water sprinklers. Fugitive emission monitoring is being carried out in the plant premises and same is enclosed as Annexure – 9. First aid and sanitation facility has been provided in the plant premises.
19.	<p>Project proponent shall provide adequate number of influent and effluent quality monitoring stations/points in consultation with Chhattisgarh Environment Conservation Board. Regular monitoring shall be carried out for relevant parameters. Regular monitoring of surface and ground water quality including heavy metals (Hg, Cr, As, Pb) shall be undertaken and the project area to ascertain the change in the water quality, if any, due to leaching of contaminants from disposal area/project area. Result and data collected shall be analyzed to ascertain the</p>	<ul style="list-style-type: none"> Closed loop water system is being practiced in the existing plant. As the washery is Heavy media-based coal washery, water after washing will be recycled back in the process. Sanitary water is being generated from the plant, which is being treated in Septic tank followed by soak pit. Kindly refer to Annexure - 1 for Wastewater analysis report. Ground water quality is being monitored periodically. Kindly refer to Annexure - 15 for monitoring report of Ground water

	status of water quality and findings shall be submitted. Continuous monitoring of ground water level and quality shall be carried out by. esta, Qlishinga network of existing wells and constructing new piezometers at suitable locations at the proponent's cost in and around project area in consultation with Regional Director, CGWB, Central Region, Bhopal.	
20.	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in raw coal yard, rejects yard etc. especially during summer season. Copy of the these measures with full details along with location plant layout shall be submitted to Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Raigarh, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment & Forests, Government of India, Bhopal.	<ul style="list-style-type: none"> • Stock pile area are provided with automatic garden type sprinklers for dust suppression as well as to reduce spontaneous ignition of coal stock piles, necessary water distribution network is provided for distributing water at all transfer points, crusher house, control room, etc. • Fire hydrants are provided at strategic locations in the plant premises. • Storage of coal for longer period is avoided. Also fire extinguishers of suitable types are provided at strategic locations in the plant premises to deal with emergency situations. • List of trained manpower dealing with fire accidents is displayed at the washery office.
21.	At least 5.0 acre (about one third of the 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. Project proponent shall abide by the decisions taken by Ministry of Environment and Forests, Government of India/Central Government/Central Pollution Control Board from time to time in this regard. Tree density of 1500-2000 trees per hectare with local board leaf species should be maintained. Forest Department shall be engaged for development of green belt/ plantation within plant premises.	<ul style="list-style-type: none"> • 5.0 acres of land is developed with greenbelt in the existing plant throughout the periphery of plant premises. Kindly refer to Annexure – 16 showing photographs of plantation / greenbelt in the plant. • Till date 5670 No. of trees were planted within the plant premises with a survival rate of 90 %. • 3 tier plantations have already been done in the plant premises.
22.	Project proponent shall provide garland drains with appropriate check dams all along the raw coal,' dust, washery rejects dump areas etc. to avoid any possibility of erosion (wearing away) during rain. Garland drain (size, gradient & length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in	Garland drains has been provided all-round the storage yard. The runoff water from the yard will enter into garland drain and will be collected in settling tank. The supernatant will be utilised in the process. Kindly refer to Annexure – 17 showing garland drains.

	the area adjoining the project site. 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. Project proponent 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.	
23.	The project proponent shall also comply with all the environment protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding village like community development programme, educational programmes drinking water supply and health care etc. Other than CSR, Committee is of the opinion that project proponent shall make a provision for plantation around nearby ancient temple raised during public hearing apart from building Chabutara and establishing tube wells.	Socio economic activities are being carried regularly in the plant. Kindly refer to Annexure –18 for details of socio-economic activities done along with expenses.
24.	Project proponent shall adopt the code of practice for coal washeries issued by Central Pollution Control Board.	Noted and agreed
25.	Project proponent shall adopt rainwater-harvesting technique in the project area and residential area for recharge of ground water. The rainwater-harvesting technique shall be incorporated right from the design stage of all structures. Project proponent shall develop rainwater-harvesting structures to harvest the rainwater for utilization in the lean season as well as to recharge the ground water table. A detailed scheme for rainwater harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority/State Ground Water Board. A copy of the same shall be submitted within three months to the Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Raigarh, SEIAA, Chhattisgarh and Regional Office. Ministry	<ul style="list-style-type: none"> • Rain water harvesting (RWH) structures has been provided in the plant. • 3 no. of RWH structure has been provided. Kindly refer to the Annexure – 19 for photographs showing the same.

Hind Energy & Coal Beneficiation (I) Pvt Ltd (Gatora)

Six Monthly EC Compliance (Period: January 2023 to June 2023)

	of Environment & Forests, Government of India, Bhopal.	
26.	Project proponent shall establish an environmental management cell to carryout function relating to environmental management under the supervision of senior executive who would directly report to the head of organization. A fuji-fledged laboratory with qualified technical/scientific staffs to monitor the influent, effluent, ground water, surface water, soil, stack emission and ambient air quality etc. shall be provided.	Environment Cell has been formed in the project. Kindly refer to Annexure – 20 for details the same. Environment monitoring is being carried out through Ultimate Envirollytical Solutions having MoEF&CC accreditation
27.	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, crutch etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Most of the workers are locally available: hence no such facilities are required. However proper sanitation facilities are provided to the employees in the plant premises.
28.	Occupational Health Surveillance of the workers should be done on a regular basis.	Health check-up of employees is being carried out periodically. Kindly refer to Annexure –21 Health Reports.
29.	Project proponent shall also ensure the availability of adequate pastureland for cattle feed after acquisition of land .. Project proponent shall also facilitate the respective Gram Panchayats for development of alternative posture land for cattle feed in the villages as per demand of concerning Gram Panchayat(s).	Noted and agreed An adequate area has been provided as pasture land for feeding cattle of the village. Whenever demanded by concerning Gram Panchayat additional land will be identified in the village in consultation with the Gram Panchayat and will be developed as pasture land.
30.	Adequate funds shall be allocated for undertaking CSR activities (community welfare, environmental development activities apart from committed plantation) as per the policy issued by the Ministry of Commerce and Industry, Govt. of Chhattisgarh vide notification dated 23/03/2013.	Socio economic activities are being carried regularly in the plant. Kindly refer to Annexure –18 for details of socio-economic activities done along with expenses.
31.	SEIAA, Chhattisgarh reserve the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction SEIAA, Chhattisgarh reserves the right to amend/cancel any of the conditions and add new conditions and make further stringent the emission / effluent limit as and when deemed	Noted and agreed

Hind Energy & Coal Beneficiation (I) Pvt Ltd (Gatora)

Six Monthly EC Compliance (Period: January 2023 to June 2023)

	necessary in the interest of environmental protection, change in the project profile or non-satisfactory implementation of the stipulated conditions etc.	
32.	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Chhattisgarh Environment Conservation Board and may also see at Website of the Ministry of Environment, Forest and Climate Change, Government of India www.envfor.nic.in and website of SEIAA, Chhattisgarh at www.seiaacg.org .	Paper advertising is given in newspaper Dainik Bhaskar (Hindi) on 11-10-2015. Kindly refer to Annexure –22 for the same.
33.	Copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestion / representations, if any received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Noted & complied
34.	Half yearly report on the status of implementation of the stipulated conditions and environment safeguards shall be submitted to the Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Raigarh, SEIAA, Chhattisgarh and Regional office, Ministry of Environment Forest and Government of India, Bhopal.	Noted & Agreed
35.	Regional Office of the Ministry of Environment and Forests at Bhopal will monitor the implementation of the stipulated conditions. A complete set of documents including Environment Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status	Is being done periodically

Hind Energy & Coal Beneficiation (I) Pvt Ltd (Gatora)

Six Monthly EC Compliance (Period: January 2023 to June 2023)

	in their website and up-date the same from time to time at least six monthly basis.	
36.	The project authorities shall inform the Regional Office as well as the SEIAA, Chhattisgarh regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.	
37.	Full cooperation shall be extended to the Scientists/Officers from the SEIAA, Chhattisgarh, Ministry of Environment & Forests, Government of India/Regional Office, Ministry of Environment & Forests, Government of India, Bhopal/the CPCB/the Chhattisgarh Environment Conservation Board, who would be monitoring the compliance of environment status.	Noted & Agreed
38.	In case of any deviation or alteration in the proposed project from those submitted to this SEIAA, Chhattisgarh for clearance, a fresh reference should be made to the SEIM, Chhattisgarh to assess the adequacy of the condition(s) imposed and to add additional environment protection measures required. if any. No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests. Government of India/SEIAA, Chhattisgarh.	Noted & Agreed
39.	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted & Agreed
40.	The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECS) and the State Government.	Noted & Agreed
41.	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974; the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) act, 1986	Noted and agreed

Hind Energy & Coal Beneficiation (I) Pvt Ltd (Gatora)

Six Monthly EC Compliance (Period: January 2023 to June 2023)

	and rules there under, Hazardous Wastes (Management, Handling and Trans Boundary Movement) Rules, 2008 and its amendments, the Public Liability Insurance Act, 1991 and its amendments. The proponent shall ensure to provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the washery operations.	
42.	The issuance of this environmental clearance does not convey any property rights in either real or personal property, or any exclusive privileges, nor does not authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State or Local laws or regulations.	Noted & Agreed
43.	Any appeal against this environmental clearance 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.	Noted & Agreed

Format No. : UES/FORM/09



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer		REPORT NO.	UES/TR/22-23/09555
To, Hind Energy And Coal Benefication (India) Ltd. Village- Gatora, Near Gatora Railway Station, Dist. : Bilaspur(C.G.) 495550		LAB REF NO.	UES/22-23/W/018339
		DATE OF SAMPLING	20/03/2023
		DATE OF RECEIPT	21/03/2023
		DATE OF REPORT	25/03/2023
		DATE OF ANALYSIS	Start:21/03/2023 End:25/03/2023
SAMPLE DETAILS			
CUSTOMER SAMPLE ID / SAMPLING LOCATION	SETTLING POINT	CUSTOMER REF. NO. & DATE	HECBIL/GATORA/BSP/2022-23/R/04
SAMPLE TYPE	WASTE WATER	SAMPLE CONDITION AT RECEIPT	OK
PACKING OF SAMPLE	PLASTIC BOTTLE	SAMPLE COLLECTED BY	CUSTOMER
OTHER DETAILS	SEALED	QUANTITY RECEIVED	APPROX 5 LTR.

TEST REPORT				
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	RESULT
1	pH Value at 25.4°C	-	IS:3025:(Part-11)	7.08
2	Conductivity	µS/Cm	IS:3025:(Part-14)	368.5
3	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	221
4	Chloride (as Cl)	mg/L	IS:3025:(Part-32)	53.9
5	Turbidity	NTU	IS:3025:(Part-10)	6.93
6	Total Alkalinity (as CaCO ₃)	mg/L	IS:3025:(Part-23)	92.0
7	Total Hardness (as CaCO ₃)	mg/L	IS:3025:(Part-21)	124.0
8	Calcium (as Ca)	mg/L	IS:3025:(Part-40)	37.68
9	Magnesium (as Mg)	mg/L	IS:3025:(Part-46)	7.29
10	Sulphate (as SO ₄)	mg/L	IS:3025:(Part-24)	35.3
11	Fluoride (as F)	mg/L	IS:3025:(part-60)	0.19
12	Nitrate (as NO ₃)	mg/L	IS:3025:(part-34)	1.94
13	Total Suspended Solid	mg/L	IS:3025:(Part-17)	27.7
14	Iron (as Fe)	mg/L	IS:3025(part-53)	0.22
15	Bio-Chemical Oxygen Demand at 27°C for 3 days	mg/L	IS:3025:(Part-44)	8.8
16	Chemical Oxygen Demand	mg/L	IS:3025:(Part-58)	40.0
17	Oil & Grease	mg/L	IS:3025:(part-39)	1.9
18	Lead (as Pb)	mg/L	IS:3025:(part-47)	N.D.
19	Chromium (as Cr)	mg/L	IS:3025:(Part-52)	N.D.
20	Arsenic (as As)	mg/L	IS:3025:(part-37)	N.D.
21	Mercury (as Hg)	mg/L	IS:3025:(part-48)	N.D.
22	Total Coliform	MPN/100ml	IS:1622:1981:RA:2019	Absent

Note: mg/lit.:milligram per liter, N.D.: Not Detected

REMARKS: RESULTS ARE AS ABOVE**Terms & conditions**

- The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

 25/03/23 REVIEWED BY	 ForULTIMATE ENVIROLYTICAL SOLUTIONS AUTHORIZED SIGNATORY
------------------------------------	---

-----End of the test report-----


Effluent treatment facility



Water Meters



NOC from Central Ground Water Authority



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

Member (CGWA)

CGWA/IND/Proj/2019-363-R

No.21-4(100)/NCCR/CGWA/2011- 642

Dated:- 20 JUN 2019

To

M/s Hind Energy and Coal Beneficiation (India) Ltd.,
1st Floor, Sol Pariesar Commercial Complex
Shrikant Verma Marg, Bilaspur
Chhattisgarh - 495001


Sub: - Renewal of NOC for ground water withdrawal to M/s Hind Energy and Coal Beneficiation (India) Ltd., for their existing Coal Washery unit located at Village Gataura, Block Masturi, District Bilaspur, Chhattisgarh - reg.

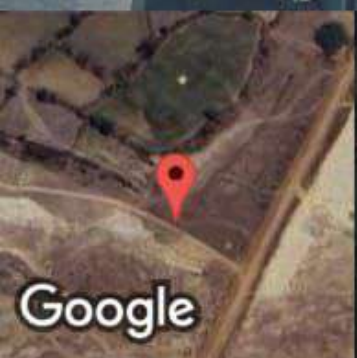
Refer to your application dated 18/10/2018 on the above cited subject. Based on recommendation of Regional Director, Central Ground Water Board, North Central Chhattisgarh Region, Raipur vide his office letter No. 35-1/NCCR/CGWA/Vol-XI-43 dated 11/01/2019, and further deliberations on the subject, the renewal of NOC issued vide this office letter of even no. dated 18/12/2015 is hereby granted to M/s Hind Energy and Coal Beneficiation (India) Ltd., for their existing Coal Washery unit located at Village Gataura, Block Masturi, District Bilaspur, Chhattisgarh. The earlier renewal NOC issued vide Letter No. 21-4(100)/NCCR/CGWA/2011-1913 dated 18/12/2015 shall be deemed to be extended from 18/12/2018 to 05/06/2019 and the renewed NOC shall be valid from 06/06/2019 to 05/06/2024 and shall be subject to the following conditions:-

1. The firm may continue to abstract 1,63,350 cu.m/year of ground water through six (6) existing bore wells only. No additional ground water abstraction structures shall be constructed for this purpose without prior approval of the CGWA.
2. All the wells shall be fitted with digital water flow meters and monthly ground water abstraction data of each well shall be recorded in a log book by the firm.
3. M/s Hind Energy and Coal Beneficiation (India) Ltd., shall, continue to implement ground water recharge measures to the tune of 31,833 m³/year for augmenting the ground water resources of the area. Firm shall also undertake periodic maintenance of recharge structures at its own cost.
4. The firm shall continue to execute monthly ground water level monitoring in the project area through two (2) nos. of existing piezometers. The firm shall install digital water level recorders in both the existing piezometers.

18/11, Jamnagar House, Mansingh Road, New Delhi-110011
Phone: (011) 23383561, Fax: 23382051, 23386743
Website : www.cgwa-ncc.gov.in
स्वास्थ्य सुरक्षा जल - सुरक्षा सुरक्षा कक्ष



 **GPS Map Camera**



बिलासपुर, छत्तीसगढ़, भारत

क्लीन कोल् इंटरप्राइजेस प्राइवेट लिमिटेड गातौरा यूनिट 1 छत्तीसगढ़ 495550

Lat 22.050445°

Long 82.238949°

31/10/23 12:50 PM GMT +05:30

Water Sprinklers



covered conveyers



Railway siding



Fugitive Dust Emission Monitoring Report

Format No. : UES/FORM/09


Ultimate
 ENVIROLYTICAL SOLUTIONS

 HDD-272, Phase III - Near JP Chowk
 Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
 Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer		REPORT NO	UES/TR/22-23/04842	
To, Hind Energy And Coal Benefication (India) Ltd. Village- Gatora, Near Gatora Railway Station, Dist. : Bilaspur(C.G.) 495550		LAB REF NO	UES/22-23/FE/011136-011137	
		DATE OF SAMPLING	19/09/2022	
		DATE OF RECEIPT	20/09/2022	
		DATE OF REPORT	24/09/2022	
		DATE OF ANALYSIS	Start:20/09/2022	END:24/09/2022
SAMPLE DETAILS				
Monitoring For	Fugitive Emission			
Customer Ref. No. & Date	HECBIL/GATORA/BSP/2022-23/R/04			
Sampling Location	1. Near Weight Bridge	LATITUDE	22.06149	
		LONGITUDE	82.24000	
	2. Near Coal Lab	LATITUDE	22.05840	
		LONGITUDE	82.23871	
Duration Of Sampling	8 Hours			
Sample Collected By	Laboratory Chemist			
Sampling Procedure	As Per Method Reference			
Sample Quantity/Packing	GMF Filter Paper (8 X 10 Inch): 1x1 No.			

TEST REPORT					
Parameter	Unit	Result		The Environment (Protection) Rules, 1986 Standard	Method Reference
		Near Weight Bridge	Near Coal Lab		
Suspended Particulate Matter (SPM)	µg/m ³	97	92	150	EPA Method IO-2.1
SRPM	µg/m ³	108	104	-	EPA Method IO-2.1
Sulphur Dioxide (SO ₂)	µg/m ³	14	12	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
Oxides of Nitrogen (NO _x)	µg/m ³	26	20	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I

Terms & conditions

- The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test (s) only.

 24/09/2022 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS  AUTHORIZED SIGNATORY
---	---	--

-----End of the test report-----

AN ISO : 9001:2015 / ISO: 14001:2015 / ISO 45001:2018 CERTIFIED LABORATORY

PUC Certificate of Vehicles

CG12AU3683

28-10-2022

27-04-2023

38.9%



SONI AUTO EMISSION TESTING

CG10/PUC/10/16

Vehicle Pass.

WB-01-

Transport
Department**POLLUTION UNDER CONTROL CERTIFICATE**
(Under the West Bengal Motor Vehicles Rules, 1989)**SONI AUTO EMISSION TESTING CEN**
TIKRAPARA, BILASPUR, CHHATTISGARH
PH: 9644094463

Label Code: CG

Licence No: CG10/PUC/10/16

Test Station Code: 10

PUCC No.: CG10005834

Vehicle Reg No: CG12AU3683

Name: HIND ENERGY

Category: Truck

Address: BILASPUR

Make: TATA

-

Model: LPS 4018

-

Date of Reg.: 2018

Date: 28-10-2022

Speedo mtr Rdg: 0

Time: 07:11 PM

Engine No.: AS PER RC

Fuel: Diesel

Chassis No.: AS PER RC

Flushing Cycle Mean: RPM Min 0390 RPM Max 1976

SNo.	RPM min	RPM max	K m-l	HSU %	OTP C
1	0410	1980	01.14	38.9	045.00
2	0470	1960	01.14	38.9	043.00
3	0380	1970	01.14	38.9	044.00

Valid upto: 27-04-2023

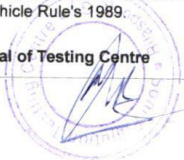
Grade : A

Test Fee : 150

Mean 0420 1970 01.14/m 38.9% 044.00

This vehicle meets Emission Standards Prescribed under Rule 115(2) of Central Motor Vehicle Rule's 1989.

Seal of Testing Centre



Authorised Signatory

INDUS DiesX 2.07ND/0000-0000/555

Ambient Air Quality Monitoring Report

Format No. : UES/FORM/09


Ultimate
 ENVIROLYTICAL SOLUTIONS

 HDD-272, Phase III - Near JP Chowk
 Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
 Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address of The Customer To, Hind Energy And Coal Benefication (India) Ltd. Village- Gatora, Near Gatora Railway Station, Dist.: Bilaspur(C.G.) 495550		Report No. UES/TR/22-23/09553 Lab Ref No. UES/22-23/AAQM/018329-018336 Date Of Sampling 20/03/2023 to 21/03/2023 Date Of Receipt 21/03/2023 Date Of Report 25/03/2023 Date Of Analysis Start:21/03/2023 End:25/03/2023	
SAMPLE DETAILS			
Monitoring For	Ambient Air Quality Monitoring		
Sampling Locations	A. Inside Plant Area		
	1. Near Dispatch Area	Latitude 22.05789 Longitude 82.23845	
	2. Near Security Barrack	Latitude 22.05975 Longitude 82.23007	
	3. Near Rotary Breaker	Latitude 22.06048 Longitude 82.23770	
	4. Near Steel Yard	Latitude 22.06018 Longitude 82.23688	
	B. Outside Plant Area		
	1. Gatora	Latitude 22.06302 Longitude 82.25086	
	2. karra	Latitude 22.04450 Longitude 82.22528	
	3. Nimtara	Latitude 22.04220 Longitude 82.23895	
	4. Farahda	Latitude 22.07267 Longitude 82.22469	
	Customer Ref. No. & Date	HECBIL/GATORA/BSP/2022-23/R/04	
	Duration Of Sampling	As per CPCB norms	
	Sample collected by	Laboratory Chemist	
	Sampling Procedure	As Per Method Reference	
Sample Quantity/Packing	Filter Paper (PM ₁₀): 1X1 No., Filter Paper (PM _{2.5}): 1X1 No. SO ₂ : 30mlX1 No. PVC Bottle, NO ₂ : 30mlX1 NO. PVC Bottle, Rubber Bladder: 1X1 No.		

REPORT NO.09553

Test Method for Ambient Air Quality Monitoring

Parameter	Method Reference
Particulate Matter size less than 10 microns (PM ₁₀)	IS:5182(Part 23):2006 &CPCB Guidelines Vol.-I
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS:5182(Part 24):2019&CPCB Guidelines Vol.-I
Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, RA 2006 &CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
Carbon Monoxide (CO)	IS 5182(Part 10):1999, RA 2003
Lead (Pb)	CPCB Guidelines Vol.-I, AAS Method
Arsenic (As)	CPCB Guidelines Vol.-I, AAS Method
Nickel (Ni)	CPCB Guidelines Vol.-I, AAS Method
Cadmium (Cd)	CPCB Guidelines Vol.-I, AAS Method
Chromium (Cr)	CPCB Guidelines Vol.-I,AAS Method

AN ISO : 9001:2015 / ISO: 14001:2015 / ISO 45001:2018 CERTIFIED LABORATORY



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

REPORT NO. - 04841

TEST REPORT

Parameter	Unit	NAAQM Standard	Results							
			Inside Plant Area				Outside Plant Area			
			Near Dispatch Area	Near Security Barrack	Near Rotary Breaker	Near Steel Yard	Gatora	karra	Nimtara	Farahda
PM ₁₀	µg/m ³	100	71	68	70	72	63	61	59	62
PM _{2.5}	µg/m ³	60	38	35	37	39	34	33	32	33
SO ₂	µg/m ³	80	14	12	13	14	13	11	10	12
NO ₂	µg/m ³	80	29	27	28	30	28	26	25	27
CO	mg/m ³	4.0	0.5	0.4	0.4	0.6	0.4	0.3	0.2	0.4
Pb	µg/m ³	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
As	ng/m ³	6.0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Ni	ng/m ³	20	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cd	µg/m ³	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cr	µg/m ³	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

 25/03/23 REVIEWED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS AUTHORIZED SIGNATORY
-----------------------------	--

-----End of the test report-----

AN ISO : 9001:2015 / ISO: 14001:2015 / ISO 45001:2018 CERTIFIED LABORATORY

Noise Level Monitoring reports

Format No. : UES/FORM/09



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer		REPORT NO	UES/TR/22-23/09557
TO, Hind Energy And Coal Benefication (India) Ltd. Village- Gatora, Near Gatora Railway Station, Dist. : Bilaspur(C.G.) 495550		LAB REF NO	UES/22-23/N/018343-018350
		DATE OF REPORT	24/03/2023
		DATE OF SAMPLING	20/03/2023 to 21/03/2023
SAMPLE DETAILS			
MONITORING FOR	NOISE LEVEL MONITORING		
CUSTOMER REF. NO. & DATE	HECBIL/GATORA/BSP/2022-23/R/04		
SAMPLING LOCATION	1. Near Dispatch Area	Latitude	22.05789
		Longitude	82.23845
	2. Near Security Barrack	Latitude	22.05975
		Longitude	82.23007
	3. Near Rotary Breaker	Latitude	22.06048
		Longitude	82.23770
	4. Near Steel Yard	Latitude	22.06018
		Longitude	82.23688
	5. Gatora Village	Latitude	22.06302
	Longitude	82.25086	
	6. Karra Village	Latitude	22.04450
	Longitude	82.22528	
	7. Nimtara Village	Latitude	22.04220
	Longitude	82.23895	
	8. Farahada Village	Latitude	22.07267
	Longitude	82.23895	
SAMPLE RECEIVED ON	MONITORING AT		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
SAMPLING PROCEDURE	MANUFACTURER'S INSTRUCTION		
SAMPLE QUANTITY/PACKING	NOT APPLICABLE		

TEST REPORT					
LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)/ (RESIDENTIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
Near Dispatch Area	dB (A)	63.1	41.8	75	70
Near Security Barrack	dB (A)	55.6	47.2		
Near Rotary Breaker	dB (A)	71.2	61.0		
Near Steel Yard	dB (A)	69.4	43.3		
Gatora Village	dB (A)	53.2	42.8	55	45
Karra Village	dB (A)	54.0	40.6		
Nimtara Village	dB (A)	51.6	41.2		
Farahada Village	dB (A)	47.9	37.0		
REMARKS: RESULTS ARE AS ABOVE					

Terms & conditions

- The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

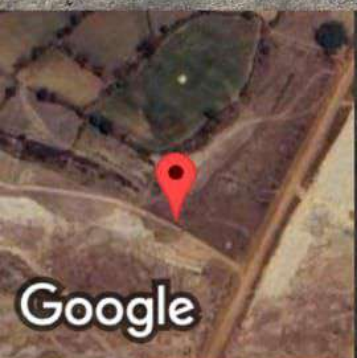
 24/03/23 REVIEWED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS AUTHORIZED SIGNATORY
-----------------------------	--

-----End of the test report-----

AN ISO : 9001:2015 / ISO: 14001:2015 / ISO 45001:2018 CERTIFIED LABORATORY



GPS Map Camera



बिलासपुर, छत्तीसगढ़, भारत

क्लीन कोल् इंटरप्राइजेस प्राइवेट लिमिटेड गातेरा यूनिट 1 छत्तीसगढ़ 495550

Lat 22.050445°

Long 82.238949°

31/10/23 01:39 PM GMT +05:30

Ground water Analysis report

Format No. : UES/FORM/09



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer		REPORT NO	UES/TR/22-23/09556
To, Hind Energy And Coal Benefication (India) Ltd. Village- Gatora, Near Gatora Railway Station, Dist. : Bilaspur(C.G.) 495550		LAB REF NO	UES/22-23/AAQM/018340-018342
		DATE OF SAMPLING	20/03/2023 to 21/03/2023
		DATE OF RECEIPT	21/03/2023
		DATE OF REPORT	25/03/2023
		DATE OF ANALYSIS	Start:21/03/2023 End:25/03/2023
SAMPLE DETAILS			
CUSTOMER SAMPLE ID / SAMPLING LOCATION	1. NEAR UNLOADING 2. NEAR FRESH WATER TANK 3. NEAR PUMP HOUSE	CUSTOMER REF. NO. & DATE	HECBIL/GATORA/BSP/2022-23/R/04
SAMPLE TYPE	BOREWELL WATER	SAMPLE CONDITION AT RECEIPT	OK
PACKING OF SAMPLE	PLASTIC BOTTLE	SAMPLE COLLECTED BY	CUSTOMER
OTHER DETAILS	SEALED	QUANTITY RECEIVED	APPROX 5 LTR.

REPORT NO. - 09556

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	RESULT		
				NEAR UNLOADING	NEAR FRESH WATER TANK	NEAR PUMP HOUSE
1	Colour	Hazen	IS:3025:(Part-4)	<1	<1	<1
2	Odour	-	IS:3025:(part-5)	Agreeable	Agreeable	Agreeable
3	pH Value at 25.2°C	-	IS:3025:(Part-11)	7.53	7.37	7.76
4	Taste	-	IS:3025:(part-8)	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/Cm	IS:3025:(Part-14)	483	417	393
6	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	289	250	236
7	Chloride (as Cl)	mg/L	IS:3025:(Part-32)	21.9	33.9	26.9
8	Turbidity	NTU	IS:3025:(Part-10)	0.92	0.44	0.58
9	Total Alkalinity (as CaCO ₃)	mg/L	IS:3025:(Part-23)	84.0	158.0	136.0
10	Total Hardness (as CaCO ₃)	mg/L	IS:3025:(Part-21)	156.0	180.0	190.0
11	Calcium (as Ca)	mg/L	IS:3025:(Part-40)	40.88	36.07	32.06
12	Magnesium (as Mg)	mg/L	IS:3025:(Part-46)	13.12	21.87	26.73
13	Sulphate(as SO ₄)	mg/L	IS:3025:(Part-24)	35.4	47.3	34.1
14	Fluoride (as F)	mg/L	IS:3025:(part-60)	0.19	0.12	0.16
15	Nitrate (as NO ₃)	mg/L	IS:3025:(part-34)	2.93	1.74	1.61
16	Copper (as Cu)	mg/L	IS:3025:(part-42)	N.D.	N.D.	N.D.
17	Iron (as Fe)	mg/L	IS:3025:(part-53)	N.D.	N.D.	N.D.
18	Zinc (as Zn)	mg/L	IS:3025:(part-49)	N.D.	N.D.	N.D.

Page 1 of 2

AN ISO : 9001:2015 / ISO: 14001:2015 / ISO 45001:2018 CERTIFIED LABORATORY



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

REPORT NO. - 09556

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	RESULT		
				NEAR UNLOADING	NEAR FRESH WATER TANK	NEAR PUMP HOUSE
19	Manganese (as Mn)	mg/L	IS:3025: (part-59)	N.D.	N.D.	N.D.
20	Boron	mg/L	IS:3025: (part-41)	N.D.	N.D.	N.D.
21	Lead (as Pb)	mg/L	IS:3025: (part-47)	N.D.	N.D.	N.D.
22	Chromium (as Cr)	mg/L	IS:3025: (Part-52)	N.D.	N.D.	N.D.
23	Selenium (as Se)	mg/L	IS:3025: (part-56)	N.D.	N.D.	N.D.
24	Arsenic (as As)	mg/L	IS:3025: (part-37)	N.D.	N.D.	N.D.
25	Mercury (as Hg)	mg/L	IS:3025: (part-48)	N.D.	N.D.	N.D.
26	Hydrocarbon	mg/L	IS:3025: (part-26)	N.D.	N.D.	N.D.
27	Phenolic Compound (as C ₆ H ₅ OH)	mg/L	IS:3025: (part-43)	N.D.	N.D.	N.D.
28	Cyanide (as CN)	mg/L	IS:3025: (part-27)	N.D.	N.D.	N.D.
29	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	N.D.	N.D.	N.D.
30	Aluminium (as Al)	mg/L	IS:3025: (part-55)	N.D.	N.D.	N.D.
31	Polynuclear	mg/L	APHA 6440	N.D.	N.D.	N.D.
32	Total Coliform	MPN/100ml	IS:1622:1981:RA:2019	Absent	Absent	Absent
33	Mineral Oil	mg/L	IS:3025: (part-39)	N.D.	N.D.	N.D.

Note: mg/lit.: milligram per liter, N.D.: Not Detected

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

 25/03/23 REVIEWED BY	 	For ULTIMATE ENVIROLYTICAL SOLUTIONS AUTHORIZED SIGNATORY
-----------------------------	------	--

-----End of the test report-----



 **GPS Map Camera**

बिलासपुर, छत्तीसगढ़, भारत

क्लीन कोल् इंटरप्राइजेस प्राइवेट लिमिटेड गातौरा यूनिट 1 छत्तीसगढ़ 495550

Lat 22.050445°

Long 82.238949°

31/10/23 01:40 PM GMT +05:30





 **GPS Map Camera**

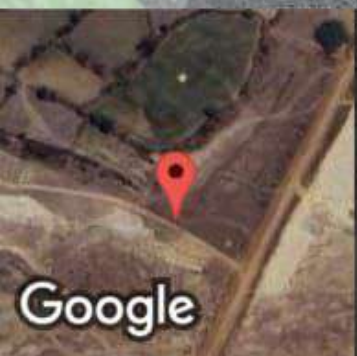
बिलासपुर, छत्तीसगढ़, भारत

क्लीन कोल् इंटरप्राइजेस प्राइवेट लिमिटेड गातौरा यूनिट 1 छत्तीसगढ़ 495550

Lat 22.050445°

Long 82.238949°

31/10/23 12:46 PM GMT +05:30



Google

Socio economic activities carried out during Jan 2023 to June 2023

S.No.	Date	Particulars	Village	Works	Amount
1.	27-06-2023	Sunil Kumar Agrawal LLP	Gatora	BT Patch Road Repairing Work form Lagra Village Main Road to Gatora Village for Gatora	29,40,000
2.	27-01-2023	M\s Subham Khad and Building Materials Supplier	Gatora	Build / construction of Kanji House for nomadic domestic animals at Gatora Village	59,656
3.	02-01-2023	M\s Subham Khad and Building Materials Supplier	Gatora	Build / construction of Kanji House for nomadic domestic animals at Gatora Village	2,76,207
4.	02-01-2023	M\s Goyal Pipe and Machinery,Bilaspur	Gatora	Construction of Water Pump House and 5 HP Summersible Pump with cable, panel board and Pipes	1,13,221
5.	04-03-2023	M\s-Subham Khad & Building Materials	Gatora	Construction if Muktidham shed in satnami samaj in Gatora Village	3,77,068
6.	04-03-2023	M\s-Subham Khad & Building Materials	Gatora	Construction if Muktidham shed in Suriyavansi samaj in Gatora Village	3,77,068
Total					41,43,2208

RWH Pits photographs



Report of Occupational Health status of Employee			
Name	JITENDRA PATEL		
Nature of Employment	AUTOMOBILE		
Company Name	HIND ENERGY AND COAL BENEFICATION (I) LTD.		
Unit	GATORA		
ID No			
Sex	MALE	Age	24/4
Designation	SUPERVISOR		
Department	AUTOMOBILE		
Height	149 cm		
Weight	47 kg		
Vision: Visual acuity (Distant Vision) With/Without glasses			
Right eye	} normal vision		
Left eye			
Colour blindness	no		
Squint	no		
Ear (audiometry)			
Noise induced hearing loss	no		
Respiratory System (Spirometry)			
Parameters			
FVC (Liters)	0.92		
FEV1	0.98		
FEV1/FVC%	107		
PEFR (Litres/sec)	0.56		
MVV (Liters/min)	0.25		
Conclusion	Normal		
Skiagram of chest	NAD		
Circulatory System			
Parameters	Blood pressure (mmhg) 120/70		
	Sinus rhythm		
Biochemical Parameters			
A. Urine			
Specific gravity	1.015	Protein (gm/l)	Absent
PH	6.2	Bilirubin	Absent
Blood	0.0/hpf	keones	Absent
Leucocytes	1.2/hpf	Glucose	Absent
Nitite	not detected	Uroilinogen	1.4 mgldl
B. Random Blood Sugar (mg/dl)	96.0 mgldl		
Remarks	Deposits Absent		
	Signature of Doctor (with seal)		

SHRIRAM CARE HOSPITAL
Ameri Road, Nehru Nagar,
Bilaspur (C.G.)

1140

1140

1140

1140

1140

1140

1140

1140

1140

1140

1140

1140

1140

1140

1140

1140

1140

1140

1140

1140

1140

1140

1140

1140

1140

1140

1140

1140

1140

Years

MR. SURENDRA
KUMAR PATEL

Age. 24/male

HR : 64 bpm

P : 81 ms

PR : 113 ms

QRS : 99 ms

QT/QTc : 378/392 ms

PQRST : 54/65/24 °

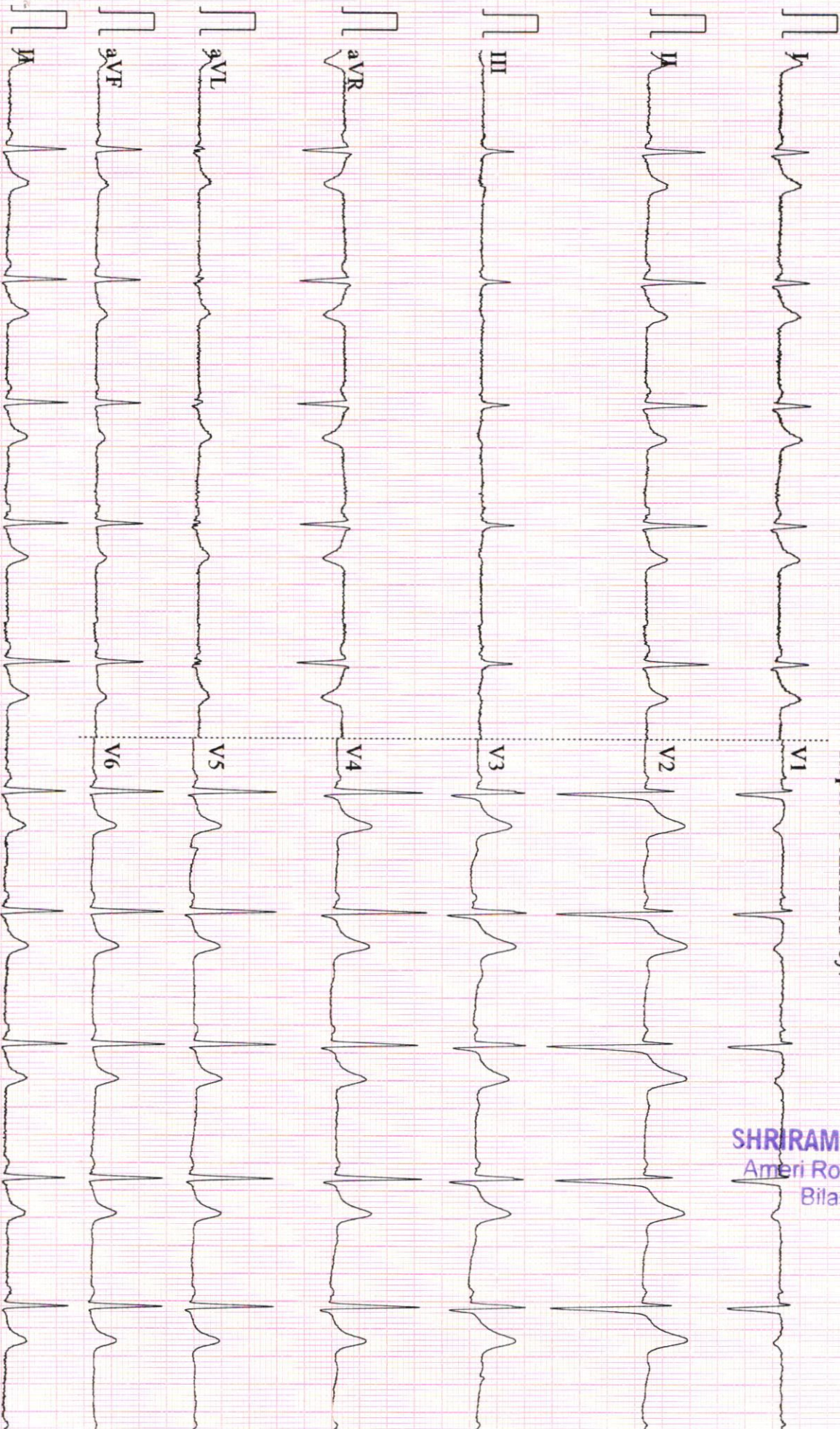
RV5/SV1 : 1.47/0.894 mV

Diagnosis Information:

Sinus Arrhythmia

Short PR Interval

Report Confirmed by:

SHRIRAM CARE HOSPITAL
Ameri Road, Nehru Nag
Bilaspur (C.G.)

SHRIRAM CARE HOSPITAL

BILASPUR

Patient: JITENDRA PATEL

Refd. By:

Pred. Eqns:

Date : 10/05/2023

Age : 24 Years Gender: Male

Height : 149 Cms

Smoker : No

Weight : 47 Kgs

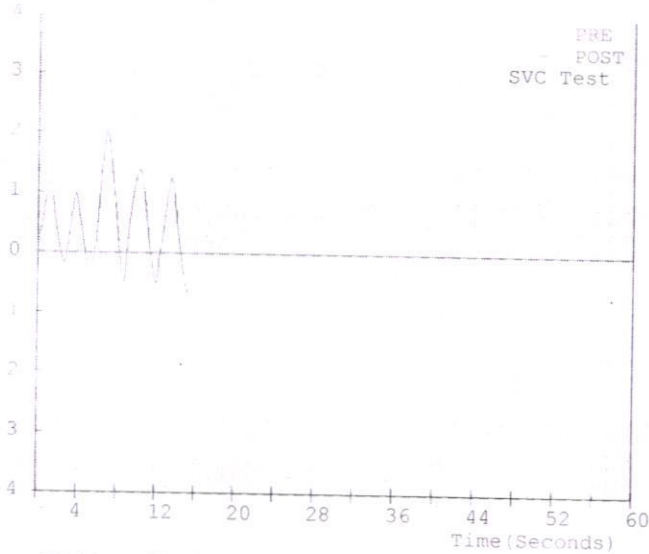
Eth. Corr: 100

ID:

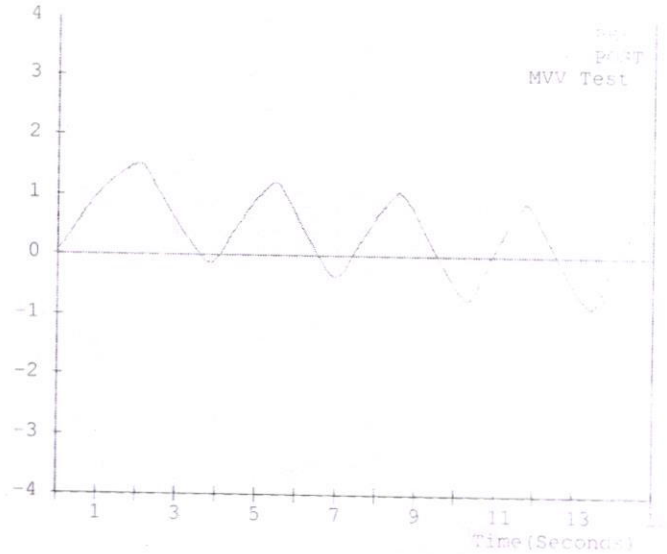
Temp :



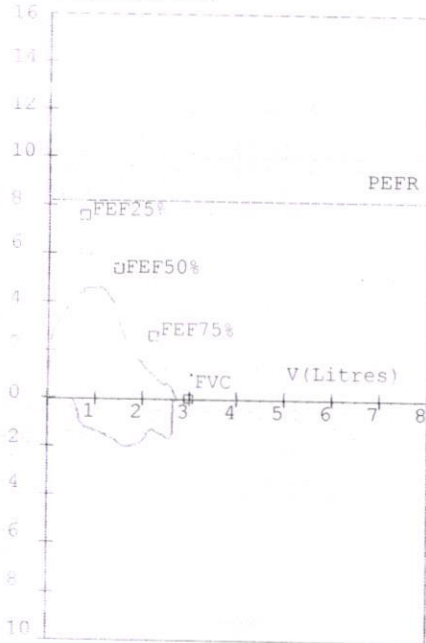
Volume (Litres)



Volume (Litres)



F (Litres/Sec)



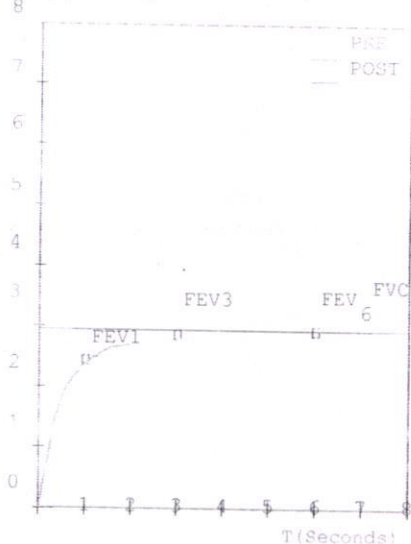
Spirometry Results

Parameter	Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC (L)	02.96	02.92	092	---	---	---
FEV1 (L)	02.45	02.40	096	---	---	---
FEV1/FVC (%)	82.77	83.24	107	---	---	---
FEF25-75 (L/s)	03.80	02.86	075	---	---	---
PEFR (L/s)	08.18	04.56	056	---	---	---
FIVC (L)	---	02.15	---	---	---	---
FEV.5 (L)	---	01.85	---	---	---	---
FEV3 (L)	02.88	02.72	094	---	---	---
PIFR (L/s)	---	01.07	---	---	---	---
FEF75-85 (L/s)	---	01.01	---	---	---	---
FEF.2-1.2 (L/s)	06.45	04.04	063	---	---	---
FEF 25% (L/s)	07.55	04.31	057	---	---	---
FEF 50% (L/s)	05.39	03.56	067	---	---	---
FEF 75% (L/s)	02.62	01.31	050	---	---	---
FEV.5/FVC (%)	---	68.01	---	---	---	---
FEV3/FVC (%)	97.30	100.00	103	---	---	---
FET (Sec)	---	02.06	---	---	---	---
ExptTime (Sec)	---	00.18	---	---	---	---
Lung Age (Yrs)	039	040	103	---	---	---
FEV6 (L)	02.96	---	---	---	---	---
FIF 25% (L/s)	---	00.17	---	---	---	---
FIF 50% (L/s)	---	01.29	---	---	---	---
FIF 75% (L/s)	---	01.37	---	---	---	---
SVC (L)	---	02.96	---	---	---	---
ERV (L)	01.28	00.45	034	---	---	---
IRV (L)	---	01.33	---	---	---	---
VE (L/min)	---	30.69	---	---	---	---
Rf (l/min)	---	23.08	---	---	---	---
Ti (sec)	---	01.20	---	---	---	---
Te (sec)	---	01.40	---	---	---	---
VT (L)	---	01.02	---	---	---	---
VT/Ti	---	01.11	---	---	---	---
Ti/Ttot	---	00.46	---	---	---	---
IC (L)	---	02.34	---	---	---	---
MVV (L/min)	122	030	025	---	---	---
MRf (l/min)	---	09.03	---	---	---	---
MVT (L)	---	01.65	---	---	---	---

Pre Medication Report Indicates

Early Small Airway Obstruction as FEF 25-75 %Pred or PEFR %Pred < 70
Spirometry within normal limits as (FEV1/FVC)%Pred >95 and FVC%Pred >80.

V (Litres)



SHRIRAM CARE HOSPITAL

Ameri Road, Nehru Nagar

DR. NITASHA SONI

Bilaspur (C.G.)

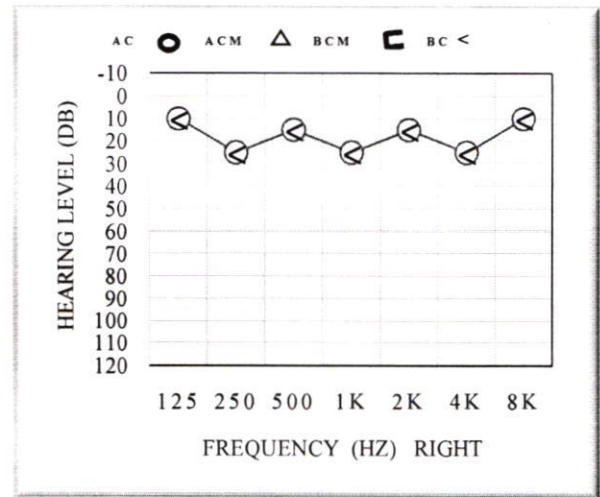
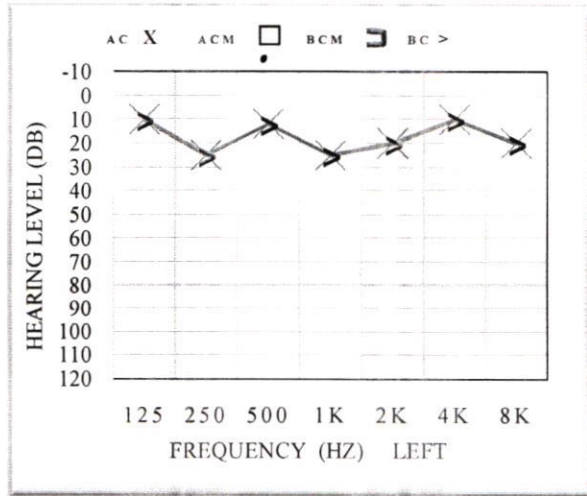
AUDIOMETER SHRIRAM CARE HOSPITAL

DATE:- 10/05/2023

NAME : JITENDRA PATEL

AGE / SEX : 24 Y/MALE

AUDIOGRAM



MODE EAR	AIR CONDUCTION		BONE CONDUCTION		COLOUR CODE	THRESHHOLD IN dB		LEFT	RIGHT
	MASKED	UNMASKED	MASKED	UNMASKED		AIR CONDUCTION			
						19.3			18.3
LEFT	□	×	▣	>	BLUE	BONE CONDUCTION			
RIGHT	△	○	▣	<	RED	SPEECH			
NO RESPONSE : ADD ↓ BELOW THE RESPECTIVE SYMBOLS									

REMARK : NORMAL HEARING

SHRIRAM CARE HOSPITAL
Ameri Road, Nehru Nagar
Bilaspur (C.G.)

केन्द्रीय शासन एवं छत्तीसगढ़ राज्य शासन से मान्यता प्राप्त अस्पताल

AN ISO 9001 : 2008 CERTIFIED MULTISPECIALITY HOSPITAL & DIALYSIS CENTRE

CASHLESS FACILITIES FOR : COAL INDIA (SECL, NCL, MCL) SECR AYUSHMAN BHARAT ESIC ESIS GOVT REGD. MTP LIT CSEB FCI 17(2) FORM IT SBI IRCON GGCU VIDAL TPA IFFCO TOKIO GIC STAR HEALTH & ALLIED GIC BAJAJ ALLIANZ GIC PARAMOUNT TPA UNITED HEALTHCARE HEALTH ASSURE ERICSON TPA FOCUS HEALTH TPA CHOLAMANDALAM FHPL RELIANCE GIC RAKSHA TPA EKIN CARE E-MEDITECH TPA GENINS INDIA TPA UNIVERSAL SOMPO GIC HEALTH INDIA INSURANCE TPA HITPA MAX BUPA TPA ADITYA BIRLA GIC GOOD HEALTH TPA MD INDIA TPA NAVI GIC

ID: 2625

10-05-2023 12:26:47

BPL-02

Years

MR. S/TENDRA
KUMAR ANTEL

Age. 24/male

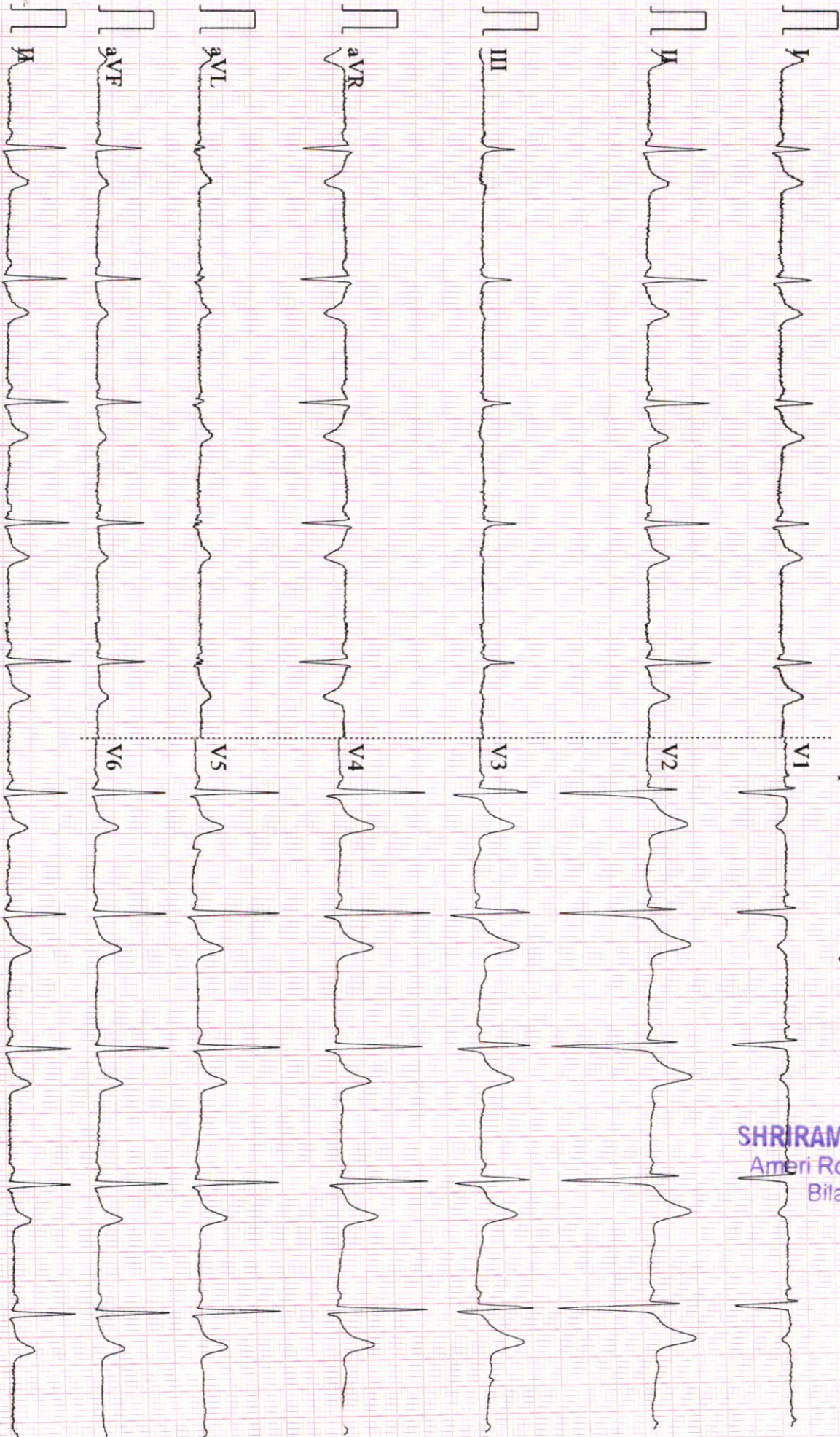
HR : 64 bpm
P : 81 ms
PR : 113 ms
QRS : 99 ms
QT/QTc : 378/392 ms
P/QRS/T : 54/65/24 °
RV5/SV1 : 1.47/0.894 mV

Diagnosis Information:

Sinus Arrhythmia
Short PR Interval

Report Confirmed by:

SHRIRAM CARE HOSPITAL
Ameri Road, Nehru Nag
Bilaspur (C.G.)



0.67~45Hz AC50 25mm/s 10mm/mV 2*5.0s+1r 64

V2.11 SEMIP V1.81 SHRI RAM CARE HOSPITAL BILASPUR

Patient Details : Mr. JITENDRA PATEL / UNID136050 / 24 yrs / Male / 000

Date : 10 May, 2023

Referred By : Dr. Shriram Care Hospital

Lab No : 136050/1683657000

PATHOLOGY REPORT

Investigation	Result	Normal values
		2023-05-10 15:28:41 OPD

BIOCHEMISTRY

RANDOM BLOOD SUGAR | GOD POD 96.00 Mg/DL UP TO - 110

2023-05-10 15:28:46 | OPD

URINE ANALYSIS

PHYSICAL EXAMINATION

- SPECIFIC GRAVITY	1.015	1.005 - 1.030
- QUANTITY	25 ml	
- COLOUR	PALE YELLOW	
- CLARITY	CLEAR	CLEAR
- REACTION	ACIDIC	ACIDIC

CHEMICAL EXAMINATION

- ALBUMIN	ABSENT	ABSENT
- SUGAR	ABSENT	ABSENT
- KETONE BODIES	ABSENT	ABSENT
- BILE PIGMENT	ABSENT	ABSENT
- BILE SALT	ABSENT	ABSENT
- UROBILINOGEN	1.4 mg/dL	<1.8

MICROSCOPIC EXAMINATION

- PUS CELLS	1-2 / hpF	0-3
- EPITHELIAL CELLS	1-2 / hpF	0-3
- RBCs	0-0 / hpF	0-0
- BACTERIA	ABSENT	ABSENT
- CAST	ABSENT	ABSENT
- CRYSTAL	ABSENT	ABSENT
REMARK:	DEPOSIT-ABSENT	
NITRITE	NOT DETECTED	NOT DETECTED
PH	6.1	4.7 - 7.5

SHRIRAM CARE HOSPITAL
Ameri Road, Nehru Nagar
Bilaspur (C.G.)

Dr. P.R. Poptani
M.D. (Pathology)
FRSH (London)
C.G. R. No. 5836/2014

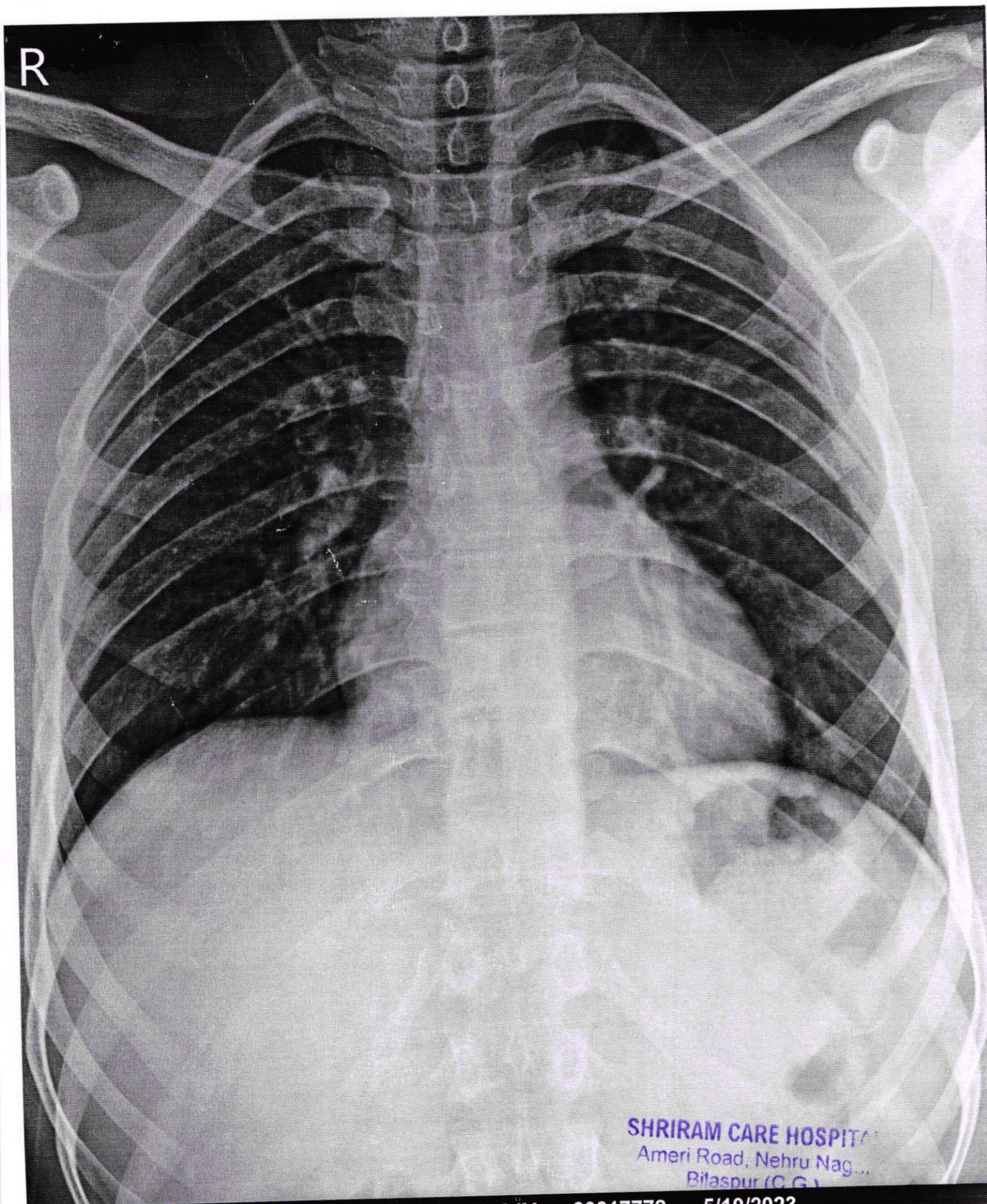
Please Note : Pathological Test technical limitations: As these reports are to assist Clinicals. No legal liability is accepted however reported in case of any disparity.

केन्द्रीय शासन एवं छत्तीसगढ़ राज्य शासन से मान्यता प्राप्त अस्पताल

AN ISO 9001 : 2008 CERTIFIED MULTISPECIALITY HOSPITAL & DIALYSIS CENTRE

CASHLESS FACILITIES FOR : COAL INDIA (SECL, NCL, MCL) SECY AYUSHMAN BHARAT ESIC ESIS GOVT REGD. MTP LT CSEB FCI 17(2) FORM IT SBI DIRCON GGCU VIDAL TPA IFFCO TOKIO GIC
STAR HEALTH & ALLIED GIC BAJAJ ALLIANZ GIC PARAMOUNT TPA UNITED HEALTHCARE HEALTH ASSURE ERICSON TPA FOCUS HEALTH TPA CHOLAMANDALAM FHPL RELIANCE GIC RAKSHA TPA
DEKIN CARE E-MEDITECH TPA GENINS INDIA TPA UNIVERSAL SOMPO GIC HEALTH INDIA INSURANCE TPA HITPA MAX BUPA TPA ADITYA BIRLA GIC GOOD HEALTH TPA MD INDIA TPA NAVI GIC

R



SHRIRAM CARE HOSPITAL
Ameri Road, Nehru Nagar,
Bilaspur (C.G.)

JITENDRA KUMAR PATEL 24Y. 00017772 5/10/2023

SHRI RAM CARE HOSPITAL, AMERI ROAD NEHRU NAGAR BSP (C.G.) PH:0771-271111

Report of Occupational Health status of Employee			
Name	JITENDRA PATEL		
Nature of Employment	AUTOMOBILE		
Company Name	HIND ENERGY AND COAL BENEFICATION (I) LTD.		
Unit	GATORA		
ID No			
Sex	MALE	Age	24/4
Designation	SUPERVISOR		
Department	AUTOMOBILE		
Height	149 cm		
Weight	47 kg		
Vision: Visual acuity (Distant Vision) With/Without glasses			
Right eye	3 normal vision		
Left eye			
Colour blindness			
Squint			
Ear (audiometry)			
Noise induced hearing loss	no		
Respiratory System (Spirometry)			
Parameters			
FVC (Liters)	0.92		
FEV1	0.58		
FEV1/FVC%	107		
PEFR (Litres/sec)	0.56		
MVV (Liters/min)	0.25		
Conclusion	Normal		
Skiagram of chest	NAD		
Circulatory System			
Parameters	Blood pressure (mmhg) 120/70		
	Sinus rhythm		
Biochemical Parameters			
A. Urine			
Specific gravity	1.015	Protein (gm/l)	Absent
PH	6.2	Bilirubin	Absent
Blood	0-0/hpf	ketones	Absent
Leucocytes	1-2/hpf	Glucose	Absent
Nitrite	not detected	Uroilinogen	1.4 mg/dl
B. Random Blood Sugar (mg/dl)	96.0 mg/dl		
Remarks	Deposit - Absent		
	Signature of Doctor (with seal)		

SHRIRAM CARE HOSPITAL
Ameri Road, Nehru Nagar,
Bilaspur (C.G.)

7140

7140
7140

7140

7140

7140

7140
7140
7140

7140

7140

7140

7140

7140

7140

7140

7140

7140

7140

7140

7140

7140

7140

7140

7140