

HIL/JAS/EC-HYR/JULY/FY2023-2024

Date: 29.07.2023

To,

The Additional Principal Chief Conservator of Forest (C)
Regional Office MoEF&CC
2nd Floor, Headquarter- Jharkhand State Housing Board, Harmu Chowk, Ranchi,
Jharkhand - 834002

Subject: Submission of Half yearly Compliance Report of EC for FY 2023-2024.

Dear Sir,

With reference to your Environmental Clearance F.No.J-11011/01/2016-IA-II (I) dated 15.06.2018. We are sending herewith the half yearly compliance report as per condition no. 28 (f) in the attached sheet.

Please find the same in order.

Thanking you,
Your's faithfully,
For- HIL Limited


(Mr. Palash Ghose)
Factory Manager

Enclose: As above

- CC: 1. The Chairman, Jharkhand State Pollution Control Board, T.A.Division Building (Ground Floor), HEC Campus, P.O. Dhurwa, Ranchi-834004, Jharkhand.
2. The Regional Officer, Jharkhand State Pollution Control Board, Ashram Road, Tower Chowk, Duhani, Dumka-814110, Jharkhand.

HIL Limited

Industrial Area, Jasidih, Deoghar - 814142 (Jharkhand, India)

+91 9234455840 Customer Care No. : 1800 425 425 99 Email: info@hil.in Website: www.hil.in

Registered Office : SLN Terminus, 7th Floor, Beside Botanical Gardens, Gachibowli, Hyderabad 500032, Telengana, India
CIN No.: L74999TG1955PLC000656

STATUS OF COMPLIANCE REPORT OF THE ENVIRONMENTAL CONDITIONS

EC F.No.J-11011/01/2016-IA-II (I) dated 15.06.2018

Specific Condition:

SI No	Condition	Compliance Status
1	The Project Proponent shall obtain a certificate from the supplier of Chrysotile fiber that it does not contain any toxic or trace metals. A copy of certificate shall be submitted to the Ministry of Environment and Forests.	Complied & MSDS displayed at all site. Copy is attached.
2	The water drawl shall not exceed 189 m3 /day (existing and the expansion project put together).	We are consuming the water less than 153 m3/day as per CGWA NOC.
3	An amount of Rs 45 Lakhs proposed towards Enterprise Social Commitment (ESC) shall be utilized as capital expenditure in project mode. The project shall be completed in concurrence with the implementation of the expansion and estimated on the basis of Scheduled Rates.	FY 20-21 we have spent 1.5 L FY 21-22 we have spent 5L FY 22-23 We have spent 10 L FY 23-24 We will spend 10.5 L This will be continued every year.
4	Green belt shall be developed in 2.89 Ha equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	Green belt is developed from 33% to 43% and plantation continuously carried out to achieve more. In the environment day 100 Nos seedlings have been distributed among the employees for plantation.
5	The Capital cost Rs. 55.00 Lakhs and annual recurring cost Rs. 17.00 Lakhs towards the environmental protection measures shall be earmarked separately. The funds so provided shall not be diverted for any other purpose.	Our environmental funds are used only in environment related activities, not used for any others purpose. In FY 23-24 we are going to spend approximately 100 Lakhs towards environment protection.
6	Kitchen waste shall be composted or converted to biogas for further use.	Kitchen waste composting system has been installed.
7	Asbestos fibre concentration shall be measured every six months and reports shall be submitted to Regional Office.	The asbestos fibre concentration is measured and evaluated by a competent person in every months at our centrally located laboratory in Hyderabad, report submitted to

HCL LIMITED
INDUSTRIAL AREA
JASIDIH, DISTT.- DEOGHA'
JHARKHAND- 814142

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		our regional office. Concentration report is attached.
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General Conditions:

SI No	Condition	Compliance Status
1	<p>The project proponent shall (Air Quality Monitoring):</p> <p>a. 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. No. 913 (E) dated 24th October, 1989 as amended time to time(Asbestos); S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.</p> <p>b. monitor fugitive emissions including asbestos fibre count in the plant premises at least once in every quarter through laboratories recognised under Environment (Protection) Act, 1986 or NABL accredited with NIOH / ITRC / NCB or any other approved agency.</p> <p>c. Install system carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO₂ and NO_x in reference SO₂ and NO_x emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions;</p> <p>d. 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 emission to Regional Office of MoEF&CC, Zonal office of CPCB</p>	<p>a. Capex raised for 24x7 continuous emission monitoring system. It shall be complied.</p> <p>b. The asbestos fibre concentration is measured and evaluated by a competent person in every month at our centrally located laboratory in Hyderabad which has specialization in fibre count measurement (Report is attached herewith), although we are searching for NABL accredited with NIOH / ITRC / NCB or any other approved agencies nearest to our location for conducting the test.</p> <p>c. As per JSPCB guidelines, we have installed one PM10 & PM2.5 analyser.</p>



JHARKHAND INDUSTRIAL AREA DEVELOPMENT AUTHORITY
JASIDIH, DISTT. DEOGHAR
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	<p>and Regional Office of SPCB along with six-monthly monitoring report.</p>	<p>Capex approved for SO₂ and NO_x will be installed in this year.</p> <p>d. We are monitored Stack & Air quality half yearly basis by the JSPCB authorised vendor through online system and it is uploaded in JSPCB site as per CTO conditions. Continuous (PM 10. PM 2.5) Air quality monitoring data is attached herewith.</p>
2	<p>The project proponent shall (Water Quality Monitoring):</p> <p>a. Install 24x7 continuous effluent monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R. No. 913 (E) dated 24"October, 1989 as amended time to time (Asbestos); S.O. 3305 (E) dated 7th December 2015(Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.</p> <p>b. Monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories; and</p> <p>c. Submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.</p>	<p>a. NA</p> <p>b. Pre monsoon & post monsoon ground water quality are being monitored six monthly</p> <p>c. Na</p>
3	<p>The project proponent shall (Air Pollution Control):</p> <p>a. Ensure the ambient air quality as per National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 (as amended from time to time);</p> <p>b. Provide appropriate dust collectors to Fiber mill, Bag opening device (BOD), and Cement and Fly ash silos. Bag filters followed by wet washer shall be provided at automatic bag opening</p>	<p>a. Complied</p> <p>b. Complied</p>



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	<p>machine, bag shredder, fiber mill and to cement silo to collect the dust and recycle it into the process;</p> <p>c. Install High Efficiency Particulate Air filters (HEPA) preceded by primary filters on all asbestos contaminated areas;</p> <p>d. Comply with total dust emission limit of 2 mg/Nm³ as notified under the Environment (Protection) Act, 1986. Adequate measures shall be adopted to control the process emission and ensure that the stack emission of asbestos fiber shall not exceed the emission limit of 0.2 fiber/cc. Asbestos fiber in work zone environment shall be maintained within 0.1 fiber/cc.</p> <p>e. Provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags;e.</p> <p>f. Provide pollution control system in the plant as per the CREP Guidelines of CPCB;</p> <p>g. Provide sufficient number of mobile or stationery vacuum cleaners to clean plant roads, shop floors, roofs regularly;</p> <p>h. Channelize through hood with proper suction arrangement, bag filter and stack the fugitive emissions generated from hopper of Jaw crusher and Pulverizer;</p> <p>i. Have separate truck parking area and monitor vehicular emissions at regular interval.</p> <p>j. Bring the cement in closed tankers, fly ash in covered trucks and asbestos in impervious bags opening inside a closed mixer;</p> <p>k. Store the bags containing asbestos fiber including damaged bags, if any in enclosed area;</p> <p>l. Place the asbestos contaminated materials (non-encapsulated) for off-site removal in sealed packaging such as double sealed heavy duty (700 gauge) plastic bags, suitably labelled;</p> <p>m. Shred the empty and damaged fiber bags into fine particles in a bag shredder and recycled into the process; and</p> <p>n. Pile the AC sheets in wet condition only.</p>	<p>c. Complied</p> <p>d. Complied and maintained the mentioned limit. (Report is attached herewith)</p> <p>e. Complied, although leakage detection system to be implemented.</p> <p>f. Noted</p> <p>g. Two Numbers of mobile vacuum cleaner has been provided.</p> <p>h. Complied</p> <p>i. Complied</p> <p>j. Complied, we are bringing cement through rake & fly ash through bulkers.</p> <p>k. We are having separate fibre storage area.</p> <p>l. We are recycling 100%.</p> <p>m. Complied</p> <p>n. Complied</p>
4	<p>The project proponent shall (Water Pollution Control):</p> <p>a. Adhere to 'zero liquid discharge';</p> <p>b. Provide Sewage Treatment Plant for domestic wastewater; and</p>	<p>a. Complied</p> <p>b. Complied</p>

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5	<p>The project proponent shall (Water Conservation):</p> <ul style="list-style-type: none"> a. Practice rainwater harvesting to maximum possible extent; b. Provide water meters at the inlet to all unit processes in the cement plants; and c. Make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water. 	<p>Complied Not applicable Not applicable for our unit.</p>
6	<p>The PP shall (Energy Conservation):</p> <ul style="list-style-type: none"> a. provide Waste heat recovery system for kiln and cooler; b. 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; c. provide the project proponent for LED lights in their offices and residential areas; d. maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards; and e. maximize utilization of alternate fuels and Co-processing to achieve best practice norms. 	<p>a. Not Applicable b. Shall be Completed c. Complied d. Not Applicable e. Noted</p>
7	<p>The project proponent shall adhere to the prescribed BIS standards and laws regarding use and handling of asbestos, safety of employees etc. Raw materials like asbestos fibre and cement shall be transported in closed containers. Asbestos fibre shall be brought in pelletized form in impermeable bags and under compressed condition.</p>	<p>We adhere to the BIS standards. Regular audit is being done by BIS, we have not received any NC.</p>
8	<p>Only Chrysotile white asbestos fibre shall be used. Blue asbestos shall not be utilized as raw material in the manufacturing process.</p>	Complied
9	<p>There shall be no manual handling/opening of asbestos fibre bags. The company shall install fully automatic asbestos fibre debagging system.</p>	Maintained, we are using BOD (Bag opening device)
10	<p>Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport.</p>	Complied
11	<p>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.</p>	Noted



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12	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied
13	<p>Proper housekeeping shall be maintained within the plant premises. Process machinery, exhaust and ventilation systems shall be laid in accordance with Factories Act. Better housekeeping practices shall be adopted for improvement of the environment within the work environment also. These include:</p> <ul style="list-style-type: none"> a. All monitoring transfer points shall be connected to dust extraction system. b. Leakages or dust from machines and ducts shall be plugged. c. Floor shall be cleaned by vacuum cleaner only and the dust collected shall be reused in the process. d. Enclosed belt conveyer shall be used instead of manual transportation of asbestos within the premises. 	We are complying the same, although we are improving our dust collection methods regularly.
14	The PP shall ensure that the entire solid waste generated including process rejects, cement, fly ash, dust from bag filters and empty asbestos bag shall be recycled back in the manufacturing process. There will be no solid waste disposal outside the plant premises. Asbestos fibers which cannot be further recycled due to contamination of iron dust shall be stored in HDPE lined secured landfill. The disposal facilities for asbestos waste shall be in accordance with the Bureau of Indian Standard Code.	Complied, the entire solid waste are generated including process rejects, cement, fly ash, dust from bag filters and empty asbestos bags are recycled back in the manufacturing process.
15	The project proponent shall adhere to the corporate environmental policy and system of the reporting of any infringements/ non-compliance of EC conditions at least once in a year to the Board of Directors and the copy of the board	Agreed

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	resolution shall be submitted to the MoEF&CC as a part of six-monthly report.	
16	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.	Not applicable
17	A dedicated environmental cell with qualified personnel shall be established. The head of the environment cell shall report directly to the head of the organization.	Complied
18	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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Agreed
19	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Agreed
20	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Agreed
21	The waste oil, grease and other hazardous shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.	All hazardous waste are recycled in a close circuit.
22	To educate the workers, all the work places where asbestos dust may cause a hazard shall be clearly indicated as a dust exposure area through the use of display signs which identifies the hazard and the associated health effects.	MSDS, safety & health awareness signages are displayed at site and also training has been provided to workers.
23	The company shall also undertake rain water harvesting measures and plan of action shall be submitted to the Ministry's Regional Office within three months.	Complied
24	The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Complied
25	Regular medical examination of the workers and health monitoring of all the employees shall be carried out and if cases of asbestosis are detected, necessary compensation shall be arranged under the existing laws. The proponent shall create in-house facilities for spirometry test. A competent occupational health physician shall be appointed to carry out medical surveillance. Occupational health of all the workers shall be	Regular medical examination of the workers are being carried out, in-house facilities for spirometry test is available & A competent occupational health physician is appointed

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	monitored for lung function test, Spirometry test, chest x-ray, sputum for acid-fast-bacilli (AFC) and asbestos body (AB), urine for sugar and albumen, bloat tests for TLC, DLC, ESR, Hb and records maintained for at least 40 years from the beginning of the employment or 15 years after the retirement or cessation of employment whichever is later. Occupational Health Surveillance shall be carried out as per the directives of the Hon'ble Supreme Court including the recent Kalyaneshwari case.	to carry out medical surveillance.
26	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.	Complied as per EIA/EMP.
27	Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses, and cement bagging plants.	Complied as per designed
28	<p>The project proponent shall (Post-EC Monitoring):</p> <p>a. send a copy of environmental clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government;</p> <p>b. Put on the clearance letter on the web site of the company for access to the public.</p> <p>c. inform the public through advertisement within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEF&CC) at http://envfor.nic.in.</p> <p>d. upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically;</p> <p>e. monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, 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;</p> <p>f. submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the</p>	Agreed Agreed Agreed Agreed Complied Complied Complied Complied Agreed

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	<p>Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB;</p> <p>g. submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company;</p> <p>h. Inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.</p>	
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Specific Condition:

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6	Kitchen waste shall be composted or converted to biogas for further use.	Kitchen waste composting system has been installed.
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General Conditions:

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	<p>and Regional Office of SPCB along with six-monthly monitoring report.</p>	<p>Capex approved for SO₂ and NO_x will be installed in this year.</p> <p>d. We are monitored Stack & Air quality half yearly basis by the JSPCB authorised vendor through online system and it is uploaded in JSPCB site as per CTO conditions. Continuous (PM 10. PM 2.5) Air quality monitoring data is attached herewith.</p>
2	<p>The project proponent shall (Water Quality Monitoring):</p> <p>a. Install 24x7 continuous effluent monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R. No. 913 (E) dated 24"October, 1989 as amended time to time (Asbestos); S.O. 3305 (E) dated 7th December 2015(Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.</p> <p>b. Monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories; and</p> <p>c. Submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.</p>	<p>a. NA</p> <p>b. Pre monsoon & post monsoon ground water quality are being monitored six monthly</p> <p>c. Na</p>
3	<p>The project proponent shall (Air Pollution Control):</p> <p>a. Ensure the ambient air quality as per National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 (as amended from time to time);</p> <p>b. Provide appropriate dust collectors to Fiber mill, Bag opening device (BOD), and Cement and Fly ash silos. Bag filters followed by wet washer shall be provided at automatic bag opening</p>	<p>a. Complied</p> <p>b. Complied</p>

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EC F.No.J-11011/01/2016-IA-II (I) dated 15.06.2018

5	<p>The project proponent shall (Water Conservation):</p> <ul style="list-style-type: none"> a. Practice rainwater harvesting to maximum possible extent; b. Provide water meters at the inlet to all unit processes in the cement plants; and c. Make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water. 	Complied Not applicable Not applicable for our unit.
6	<p>The PP shall (Energy Conservation):</p> <ul style="list-style-type: none"> a. provide Waste heat recovery system for kiln and cooler; b. 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; c. provide the project proponent for LED lights in their offices and residential areas; d. maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards; and e. maximize utilization of alternate fuels and Co-processing to achieve best practice norms. 	a. Not Applicable b. Shall be Completed c. Complied d. Not Applicable e. Noted
7	<p>The project proponent shall adhere to the prescribed BIS standards and laws regarding use and handling of asbestos, safety of employees etc. Raw materials like asbestos fibre and cement shall be transported in closed containers. Asbestos fibre shall be brought in pelletized form in impermeable bags and under compressed condition.</p>	We adhere to the BIS standards. Regular audit is being done by BIS, we have not received any NC.
8	<p>Only Chrysotile white asbestos fibre shall be used. Blue asbestos shall not be utilized as raw material in the manufacturing process.</p>	Complied
9	<p>There shall be no manual handling/opening of asbestos fibre bags. The company shall install fully automatic asbestos fibre debagging system.</p>	Maintained, we are using BOD (Bag opening device)
10	<p>Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport.</p>	Complied
11	<p>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.</p>	Noted



JASIDH, DISTT.-DEC
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JHARKHAND- 814

STATUS OF COMPLIANCE REPORT OF THE ENVIRONMENTAL CONDITIONS

EC F.No.J-11011/01/2016-IA-II (I) dated 15.06.2018

12	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied
13	<p>Proper housekeeping shall be maintained within the plant premises. Process machinery, exhaust and ventilation systems shall be laid in accordance with Factories Act. Better housekeeping practices shall be adopted for improvement of the environment within the work environment also. These include:</p> <ul style="list-style-type: none"> a. All monitoring transfer points shall be connected to dust extraction system. b. Leakages or dust from machines and ducts shall be plugged. c. Floor shall be cleaned by vacuum cleaner only and the dust collected shall be reused in the process. d. Enclosed belt conveyer shall be used instead of manual transportation of asbestos within the premises. 	We are complying the same, although we are improving our dust collection methods regularly.
14	The PP shall ensure that the entire solid waste generated including process rejects, cement, fly ash, dust from bag filters and empty asbestos bag shall be recycled back in the manufacturing process. There will be no solid waste disposal outside the plant premises. Asbestos fibers which cannot be further recycled due to contamination of iron dust shall be stored in HDPE lined secured landfill. The disposal facilities for asbestos waste shall be in accordance with the Bureau of Indian Standard Code.	Complied, the entire solid waste are generated including process rejects, cement, fly ash, dust from bag filters and empty asbestos bags are recycled back in the manufacturing process.
15	The project proponent shall adhere to the corporate environmental policy and system of the reporting of any infringements/ non-compliance of EC conditions at least once in a year to the Board of Directors and the copy of the board	Agreed

HIL LIMITED
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JHARKHAND- 814147

STATUS OF COMPLIANCE REPORT OF THE ENVIRONMENTAL CONDITIONS

EC F.No.J-11011/01/2016-IA-II (I) dated 15.06.2018

	resolution shall be submitted to the MoEF&CC as a part of six-monthly report.	
16	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.	Not applicable
17	A dedicated environmental cell with qualified personnel shall be established. The head of the environment cell shall report directly to the head of the organization.	Complied
18	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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Agreed
19	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Agreed
20	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Agreed
21	The waste oil, grease and other hazardous shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.	All hazardous waste are recycled in a close circuit.
22	To educate the workers, all the work places where asbestos dust may cause a hazard shall be clearly indicated as a dust exposure area through the use of display signs which identifies the hazard and the associated health effects.	MSDS, safety & health awareness signages are displayed at site and also training has been provided to workers.
23	The company shall also undertake rain water harvesting measures and plan of action shall be submitted to the Ministry's Regional Office within three months.	Complied
24	The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Complied
25	Regular medical examination of the workers and health monitoring of all the employees shall be carried out and if cases of asbestosis are detected, necessary compensation shall be arranged under the existing laws. The proponent shall create in-house facilities for spirometry test. A competent occupational health physician shall be appointed to carry out medical surveillance. Occupational health of all the workers shall be	Regular medical examination of the workers are being carried out, in-house facilities for spirometry test is available & A competent occupational health physician is appointed

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INDUSTRIAL AREA
LIMITED

STATUS OF COMPLIANCE REPORT OF THE ENVIRONMENTAL CONDITIONS

EC F.No.J-11011/01/2016-IA-II (I) dated 15.06.2018

	monitored for lung function test, Spirometry test, chest x-ray, sputum for acid-fast-bacilli (AFC) and asbestos body (AB), urine for sugar and albumen, bloat tests for TLC, DLC, ESR, Hb and records maintained for at least 40 years from the beginning of the employment or 15 years after the retirement or cessation of employment whichever is later. Occupational Health Surveillance shall be carried out as per the directives of the Hon'ble Supreme Court including the recent Kalyaneshwari case.	to carry out medical surveillance.
26	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.	Complied as per EIA/EMP.
27	Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses, and cement bagging plants.	Complied as per designed
28	<p>The project proponent shall (Post-EC Monitoring):</p> <p>a. send a copy of environmental clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government;</p> <p>b. Put on the clearance letter on the web site of the company for access to the public.</p> <p>c. inform the public through advertisement within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEF&CC) at http://envfor.nic.in.</p> <p>d. upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically;</p> <p>e. monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, 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;</p> <p>f. submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the</p>	Agreed Agreed Agreed Agreed Complied Complied Complied Complied Agreed

STATUS OF COMPLIANCE REPORT OF THE ENVIRONMENTAL CONDITIONS

EC F.No.J-11011/01/2016-IA-II (I) dated 15.06.2018

	<p>Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB;</p> <p>g. submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company;</p> <p>h. Inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.</p>	
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HIL LIMITED
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TC-5432

TEST REPORT

Test Report No.	ST/TR/23/01/5902	ULR No.	TC54322200006002F	Job Code:	M0410123					
Date of receipt	09-01-2023	Date of Issue of Test Report			11-01-2023					
Customer's Name & Address	HIL LIMITED INDUSTRIAL AREA, JASIDIH, DEOGHAR, DIST.- DEOGHAR.									
Customer's Letter No.	LETTER REF. NO.: - NIL									
DATE:-09/01/2023										
SAMPLE DETAILS:										
Sample No.	A11498, A11499, A11500, A11501	Material/ Item:	ABSORBED POLLUTANT IN GFA & IMPINGER FROM SITE							
Material Condition	GOOD	Environmental condition:	Laboratory Temperature at time Analysis : 27°C							
Standard Applicable for testing	IS: 5182(P-23):2006 , IS: 5182 (P-2): 2001, IS: 5182 (P-6): 2006, IS: 5182 (P-24):2019	Deviation in testing from Standard	NO							
Application No	14969142	Application Date & time	04/01/2023 (02:42)							
Nature of Industry	CEMENT ASBESTOS MANUFACTURING UNIT	Date of Sampling	07/01/2023 - 08/01/2023							
SAMPLING	Done by Laboratory		Done by Customer							
IF, SAMPLING DONE BY LAB:ORATORY	Sampling Location		N: 24°31'27.2" E: 86°38'05.03"							
	Sampling Method/ Sampling Plan		ST/SOP/AAQ/01							
	Environmental Condition		Temperature: 21°C							
	Sample Collected by		SUKANTA, DHEERAJ, TANMAY							
Sample analysis Start date:	09-01-2023	Sample analysis End date:	11-01-2023							

TEST RESULTS

MATERIAL		AMBIENT AIR		Discipline/ Group	CHEMICAL / ATMOSPHERIC POLLUTION			
SAMPLE NO	Test Parameters	OUTLET				Method Reference	REQUIREMENT (ACCEPTABLE LIMITS)	Conformity
		NEAR MAIN GTAE	NEAR ADMIN BUILDING	NEAR STP- 02 AREA	AVERAGE			
A11498	Particulate Matter (PM ₁₀), µg/m ³	76.29	74.54	75.26	75.36	IS: 5182 (P-23):2006	100 µg/m ³ , Max.	YES
A11499	Sulphur Dioxide (SO ₂), µg/m ³	5.36	5.62	5.46	5.48	IS: 5182 (P-2): 2001	80 µg/m ³ , Max.	YES
A11500	Nitrogen Dioxide (NO ₂), µg/m ³	24.56	25.44	23.16	24.39	IS: 5182 (P-6): 2006	80 µg/m ³ , Max.	YES
A11501	Particulate Matter (PM _{2.5}), µg/m ³	48.73	47.90	51.54	49.39	IS: 5182 (P-24):2019	60 µg/m ³ , Max.	YES

Note:- *As per National Ambient Air Quality Standards by Central Pollution Control Board (CPCB) Notification, New Delhi 18/11/2009

REMARK (if any) :- OK

*****END OF REPORT*****

Done By:- SUKANTA, DHEERAJ

Sr. SCIENTIST:-SUKANTA MAHATO

SR. SCIENTIST ASST.: DHEERAJ PATRA

Declarations: 1. Sample will be retained for three months from the testing. 2. The test results relates only to the sample as received or sampled for testing and as per applicable parameters. 3. The report can not be used as an evidence in the court of law, without written approval of Laboratory can provide assurance that parts of a report are not taken out of context. 4. All disputes subject to Ranchi Jurisdiction only.

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TC-5432

TEST REPORT

Test Report No.	ST/TR/23/01/5903	ULR No.	TC54322200006003F	Job Code:	M0410123
Date of receipt	09-01-2023	Date of Issue of Test Report			11-01-2023
Customer's Name & Address	HIL LIMITED INDUSTRIAL AREA, JASIDIH, DEOGHAR, DISTT.- DEOGHAR.				
Customer's Letter No.	LETTER REF. NO.: NIL				

DATE:- 09/01/2023

SAMPLE DETAILS:

Sample No.	A11502	Material/ Item:	NOISE QUALITY RECORDED IN SOUND LEVEL METER AT SITE	
Material Condition	GOOD	Environmental condition:	Laboratory Temperature at time Analysis : 27°C	
Standard Applicable for testing	IS: 9989 - 1981.	Deviation in testing from Standard	NO	
Application No	14969142	Application Date & time	04/01/2023 (02:42)	
Operational Status	YES	Types Of Noise (Indoor/Outdoor)	OUTDOOR	
Date of Monitoring	07/01/2023 - 08/01/2023	Weather Condition During Observation	CLEAR	
Time of Observation	DAY/ NIGHT			
SAMPLING	Done by Laboratory		Done by Customer	
IF, SAMPLING DONE BY LABORATORY	Sampling Location		N: 24°31'27.2" E: 86°38'05.03"	
	Sampling Method/ Sampling Plan		ST/SOP/NQ/01	
	Environmental Condition		Temp: 21°C	
	Sample Collected by		SUKANTA, DHEERAJ, TANMAY	
Sample analysis Start date:		09-01-2023	Sample analysis End date:	11-01-2023

TEST RESULTS

MATERIAL		NOISE		Discipline/ Group	CHEMICAL / ATMOSPHERIC POLLUTION			
S. No.	Location	Test Parameters	Unit of Measurement	Result		Method Reference	Requirement (Acceptable Limits) As Per IS: 9989 - 1981.	Conformity
				DAY	NIGHT			
1	NEAR MAIN GATE	Ambient Noise Level in Leq	dB (A) Leq	58	42	IS: 9989 - 1981.	75 dB (A)Leq Day/Time	YES
2	NEAR ADMIN BUILDING	Ambient Noise Level in Leq	dB (A) Leq	61	48		70dB (A)Leq Night/Time	YES
3	NEARSTP - 02 AREA	Ambient Noise Level in Leq	dB (A) Leq	56	46			YES

*****END OF REPORT*****

Done By:- Sukanta, Dheeraj

Sukanta

SR. SCIENTIST:- SUKANTA MAHATO

Dheeraj Patra

SR. SCIENTIST ASSTT.:DHEERAJ PATRA

Declarations: 1. Sample will be retained for three months from the testing. 2. The test results relates only to the sample as received or sampled for testing and as per applicable parameters. 3. The report can not be used as an evidence in the court of law, without written approval of Laboratory can provide assurance that parts of a report are not taken out of context. 4. All disputes subject to Ranchi Jurisdiction only.



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TC 5432

TEST REPORT

Test Report No.	ST/TR/23/01/5907		ULR No.	TC54322200006007F	Job Code:	M0410123
Date of receipt	09-01-2023		Date of Issue of Test Report		11-01-2023	
Customer's Name & Address	HIL LIMITED INDUSTRIAL AREA, JASIDIH, DEOGHAR, DIST.- DEOGHAR.					
Customer's Letter No.	LETTER REF. NO.: NIL DATE:-09/01/2023					
SAMPLE DETAILS:						
Sample No.	A11503, A11504, A11505		Material/ Item:	STACK EMISSION MONITORING		
Material Condition	GOOD		Environmental condition:	Laboratory Temperature at time of Analysis : 27°C		
Standard Applicable for testing	IS: 11255 (Part-1): 1985 , IS: 11255 (Part-2): 1985, IS: 11255 (Part-7): 2005		Deviation in testing from Standard	NO		
Application No	14969142		Application Date & time	04/01/2023 (02:42)		
Stack Name	CEMENT FEEDING DUST COLLECTOR	Production Capacity	375 FIBER SHEET/DAY	Stack Dia (M)	0.25	
Stack Height from ground level (M)	17.5	Height of Sampling point from ground level(m)	13.5	Stack Temp.	42° C	
Average Velocity (m/sec.)	6.04	Fuel Used	ELECTRICITY	Flow rate (Nm³/Min.)	24.42	
Nature of Industry	CEMENT ASBESTS MANUFACTURING UNIT	Stack Shape	CIRCULAR	Date of Sampling	07-01-2023	
Control Measure	-					
SAMPLING	Done by Laboratory			Done by Customer		
IF, SAMPLING DONE BY LABORATORY	Sampling Location			LAT: 24.51676 LONG: 86.63875		
	Sampling Method/ Sampling Plan			ST/SOP/SE/01		
	Environmental Condition			Temp. 21°C		
	Sample Collected by			SUKANTA, TANMAY		
Sample analysis Start date:	09-01-2023		Sample analysis End date:	11-01-2023		

TEST RESULTS

MATERIAL		STACK		Discipline/ Group		CHEMICAL /ATMOSPHERIC POLLUTION	
S. No.	Sample No	Test Parameters	Unit of Measurement	Result	Method Reference	Requirement (Acceptable Limits)	Conformity
1	A11503	PM (Particulate Matter)	mg/Nm³	48.13	IS: 11255 (Part-1): 1985	-	-
2	A11504	SO₂ (Sulphur Dioxide)	mg/Nm³	-	IS: 11255 (Part-2): 1985	-	-
3	A11505	NO₂ (Oxide of Nitrogen)	mg/Nm³	-	IS: 11255 (Part-7): 1985	-	-

REMARK (if any) :- OK

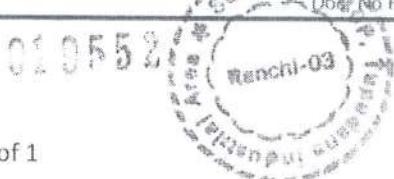
*****END OF REPORT*****

Done by:- SUKANTA, TANMAY

Smahato
SR. SCIENTIST: SUKANTA MAHATO

Dutta
SR. SCIENTIST ASSTT.: TANMAY DUTTA

Declarations: 1. Sample will be retained for three months from the testing 2. The test results relates only to the sample as received or sampled for testing and as per applicable parameters. 3. The report can not be used as an evidence in the court of law, without written approval of Laboratory can provide assurance that parts of a report are not taken out of context. 4. All disputes subject to Ranchi Jurisdiction only.



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*HIL LIMITED
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TC-5432

TEST REPORT

Test Report No.	ST/TR/23/01/5908	ULR No.	TC54322200006008F	Job Code:	M0410123
Date of receipt	09-01-2023	Date of Issue of Test Report			11-01-2023

Customer's Name & Address	HIL LIMITED INDUSTRIAL AREA, JASIDIH, DEOGHAR, DISTT.- DEOGHAR.
Customer's Letter No.	LETTER REF. NO.: NIL

DATE:-09/01/2023

SAMPLE DETAILS:

Sample No.	A11506, A11507, A11508		Material/ Item:	STACK EMISSION MONITORING	
Material Condition	GOOD		Environmental condition:	Laboratory Temperature at time of Analysis : 27°C	
Standard Applicable for testing	IS: 11255 (Part-1): 1985 , IS: 11255 (Part-2): 1985, IS: 11255 (Part-7): 2005		Deviation in testing from Standard	NO	
Application No	14969142		Application Date & time	04/01/2023 (02:42)	
Stack Name	DRY WASTE GRINDING	Production Capacity	375 FIBER SHEET/DAY	Stack Dia (M)	0.25
Stack Height from ground level (M)	8.6	Height of Sampling point from ground level(m)	4.6	Stack Temp.	30° C
Average Velocity (m/sec.)	5.82	Fuel Used	ELECTRICITY	Flow rate (Nm³/Min.)	24.46
Nature of Industry	CEMENT ASBESTS MANUFACTURING UNIT	Stack Shape	CIRCULAR	Date of Sampling	07-01-2023
Control Measure	-				
SAMPLING	Done by Laboratory			Done by Customer	
IF, SAMPLING DONE BY LABORATORY	Sampling Location			LAT: 24.517385	LONG: 86.639283
	Sampling Method/ Sampling Plan			ST/SOP/SE/01	
	Environmental Condition			Temp. 21°C	
	Sample Collected by			SUKANTA, TANMAY	
Sample analysis Start date:	09-01-2023		Sample analysis End date:	11-01-2023	

TEST RESULTS

MATERIAL		STACK		Discipline/ Group		CHEMICAL /ATMOSPHERIC POLLUTION	
S. No.	Sample No	Test Parameters	Unit of Measurement	Result	Method Reference	Requirement (Acceptable Limits)	Conformity
1	A11506	PM (Particulate Matter)	mg/Nm³	52.12	IS: 11255 (Part-1): 1985	-	-
2	A11507	SO₂ (Sulphur Dioxide)	mg/Nm³	-	IS: 11255 (Part-2): 1985	-	-
3	A11508	NO₂ (Oxide of Nitrogen)	mg/Nm³	-	IS: 11255 (Part-7): 1985	-	-

REMARK (if any) :- OK

*****END OF REPORT*****

Done by:- SUKANTA, TANMAY

SR. SCIENTIST: SUKANTA MAHATO

SR. SCIENTIST ASSTT.: TANMAY DUTTA

Declarations: 1. Sample will be retained for three months from the testing. 2. The test results relates only to the sample as received or sampled for testing and as per applicable parameters. 3. The report can not be used as an evidence in the court of law, without written approval of Laboratory can provide assurance that parts of a report are not taken out of context. 4. All disputes subject to Ranchi Jurisdiction only.

Doc. No. F01(7.8) Amnd. p8



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Ranchi-03
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TC-5432

TEST REPORT

Test Report No.	ST/TR/23/01/5909	ULR No.	TC54322200006009F	Job Code:	M0410123
Date of receipt	09-01-2023	Date of Issue of Test Report			11-01-2023
Customer's Name & Address	HIL LIMITED INDUSTRIAL AREA, JASIDIH, DEOGHAR, DISTT.- DEOGHAR.				
Customer's Letter No.	LETTER REF. NO.: NIL				DATE:-09/01/2023

SAMPLE DETAILS:

Sample No.	A11509, A11510, A11511		Material/ Item:	STACK EMISSION MONITORING	
Material Condition	GOOD		Environmental condition:	Laboratory Temperature at time of Analysis : 27°C	
Standard Applicable for testing	IS: 11255 (Part-1): 1985 , IS: 11255 (Part-2): 1985, IS: 11255 (Part-7): 2005		Deviation in testing from Standard	NO	
Application No	14969142		Application Date & time	04/01/2023 (02:42)	
Stack Name	CEMENT & SLAG MIXING	Production Capacity	375 FIBER SHEET/DAY	Stack Dia (M)	0.25
Stack Height from ground level (M)	13.2	Height of Sampling point from ground level(m)	9.0	Stack Temp.	40° C
Average Velocity (m/sec.)	5.57	Fuel Used	ELECTRICITY	Flow rate (Nm³/Min.)	22.66
Nature of Industry	CEMENT ASBESTS MANUFACTURING UNIT	Stack Shape	CIRCULAR	Date of Sampling	07-01-2023
Control Measure	-				
SAMPLING	Done by Laboratory			Done by Customer	
IF, SAMPLING DONE BY LABORATORY	Sampling Location			LAT: 24.51676	LONG: 86.63875
	Sampling Method/ Sampling Plan			ST/SOP/SE/01	
	Environmental Condition			Temp. 21°C	
	Sample Collected by			SUKANTA, TANMAY	
Sample analysis Start date:	09-01-2023		Sample analysis End date:	11-01-2023	

TEST RESULTS

MATERIAL		STACK		Discipline/ Group	CHEMICAL /ATMOSPHERIC POLLUTION		
S. No.	Sample No	Test Parameters	Unit of Measurement	Result	Method Reference	Requirement (Acceptable Limits)	Conformity
1	A11509	PM (Particulate Matter)	mg/Nm³	50.8	IS: 11255 (Part-1): 1985	-	-
2	A11510	SO₂ (Sulphur Dioxide)	mg/Nm³	-	IS: 11255 (Part-2): 1985	-	-
3	A11511	NO₂ (Oxide of Nitrogen)	mg/Nm³	-	IS: 11255 (Part-7): 1985	-	-

REMARK (if any) :- OK

*****END OF REPORT*****

Done by:- SUKANTA, TANMAY

Snahato
SR. SCIENTIST: SUKANTA MAHATO

Dutta
SR. SCIENTIST ASSTT.: TANMAY DUTTA

Declarations: 1. Sample will be retained for three months from the testing. 2. The test results relates only to the sample as received or sampled for testing and as per applicable parameters. 3. The report can not be used as an evidence in the court of law, without written approval of Laboratory can provide assurance that parts of a report are not taken out of context. 4. All disputes subject to Ranchi Jurisdiction only.



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Reviewed By: *Dutta*

Page No.1 of 1



Kishore
Authorised Signatory

*HIL LIMITED
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TEL:- 7808266661/2/3

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TC-6432

TEST REPORT

Test Report No.	ST/TR/23/01/5910		ULR No.	TC54322200006010F	Job Code:	M0410123
Date of receipt	09-01-2023		Date of Issue of Test Report		11-01-2023	
Customer's Name & Address	HIL LIMITED INDUSTRIAL AREA, JASIDIH, DEOGHAR, DISTT.- DEOGHAR.					
Customer's Letter No.	LETTER REF. NO.: NIL DATE:-09/01/2023					
SAMPLE DETAILS:						
Sample No.	A11512, A11513, A11514		Material/ Item:	STACK EMISSION MONITORING		
Material Condition	GOOD		Environmental condition:	Laboratory Temperature at time of Analysis : 27°C		
Standard Applicable for testing	IS: 11255 (Part-1): 1985 , IS: 11255 (Part-2): 1985, IS: 11255 (Part-7): 2005		Deviation in testing from Standard	NO		
Application No	14969142		Application Date & time	04/01/2023 (02:42)		
Stack Name	FLY ASH STACK	Production Capacity	375 FIBER SHEET/DAY	Stack Dia (M)	0.25	
Stack Height from ground level (M)	8.3	Height of Sampling point from ground level(m)	6.4	Stack Temp.	35° C	
Average Velocity (m/sec.)	5.44	Fuel Used	ELECTRICITY	Flow rate (Nm ³ /Min.)	22.49	
Nature of Industry	CEMENT ASBESTS MANUFACTURING UNIT	Stack Shape	CIRCULAR	Date of Sampling	07-01-2023	
Control Measure	-					
SAMPLING	Done by Laboratory			Done-by-Customer		
IF, SAMPLING DONE BY LABORATORY	Sampling Location			LAT: 24.516324	LONG: 86.638762	
	Sampling Method/ Sampling Plan			ST/SOP/SE/01		
	Environmental Condition			Temp. 21°C		
	Sample Collected by			SUKANTA, TANMAY		
Sample analysis Start date:	09-01-2023		Sample analysis End date:	11-01-2023		

TEST RESULTS

MATERIAL		STACK		Discipline/ Group		CHEMICAL /ATMOSPHERIC POLLUTION	
S. No.	Sample No	Test Parameters	Unit of Measurement	Result	Method Reference	Requirement (Acceptable Limits)	Conformity
1	A11512	PM (Particulate Matter)	mg/Nm ³	110.95	IS: 11255 (Part-1): 1985	-	-
2	A11513	SO ₂ (Sulphur Dioxide)	mg/Nm ³	-	IS: 11255 (Part-2): 1985	-	-
3	A11514	NO ₂ (Oxide of Nitrogen)	mg/Nm ³	-	IS: 11255 (Part-7): 1985	-	-

REMARK (if any) :- OK

*****END OF REPORT*****

Done by:- SUKANTA, TANMAY

Sukanta
SR. SCIENTIST: SUKANTA MAHATO

Tutta
SR. SCIENTIST ASSTT.: TANMAY DUTTA

Declarations: 1. Sample will be retained for three months from the testing. 2. The test results relates only to the sample as received or sampled for testing and as per applicable parameters. 3. The report can not be used as an evidence in the court of law without written approval of Laboratory can provide assurance that parts of a report are not taken out of context. 4. All disputes subject to Ranchi Jurisdiction only.

Doc. No F01(7-B) Amnd- 08



019543



Reviewed By: *Dutta*

Page No.1 of 1

Authorised Signatory

*HIL LIMITED
INDUSTRIAL AREA
JASIDIH, DISTT.- DEOGHAR
JHARKHAND- 814142*



Sun-Tech

40 P Tupudana Industrial Area, Ranchi-834003, Jharkhand

TEL.- 7808266661/2/3

Accredited as per ISO/IEC 17025: 2017 by NABL



TC-5432

TEST REPORT

Test Report No.	ST/TR/23/01/5911	ULR No.	TC54322200006011F	Job Code:	M0410123
Date of receipt	09-01-2023	Date of Issue of Test Report			11-01-2023

Customer's Name & Address	HIL LIMITED INDUSTRIAL AREA, JASIDIH, DEOGHAR, DISTT.- DEOGHAR.
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Customer's Letter No.	LETTER REF. NO.: - NIL	DATE:-09/01/2023
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SAMPLE DETAILS:

Sample No.	A11515, A11516, A11517		Material/ Item:	STACK EMISSION MONITORING	
Material Condition	GOOD		Environmental condition:	Laboratory Temperature at time of Analysis : 27°C	
Standard Applicable for testing	IS: 11255 (Part-1): 1985 , IS: 11255 (Part-2): 1985, IS: 11255 (Part-7): 2005		Deviation in testing from Standard	NO	
Application No	14969142		Application Date & time	04/01/2023 (02:42)	
Stack Name	D.G. SET (1010 KVA)	Production Capacity	375 FIBER SHEET/DAY	Stack Dia (M)	0.50
Stack Height from ground level (M)	20.0	Height of Sampling point from ground level(m)	11.0	Stack Temp.	165 °C
Average Velocity (m/sec.)	7.17	Fuel Used	DIESEL	Flow rate (Nm³/Min.)	20.85
Nature of Industry	CEMENT ASBESTS MANUFACTURING UNIT	Stack Shape	CIRCULAR	Date of Sampling	07-01-2023
Control Measure	-				
SAMPLING	Done by Laboratory			Done-by-Customer	
IF, SAMPLING DONE BY LABORATORY	Sampling Location			LAT: 24.517392	LONG: 86.639256
	Sampling Method/ Sampling Plan			ST/SOP/SE/01	
	Environmental Condition			Temp.21°C	
	Sample Collected by			SUKANTA, TANMAY	
Sample analysis Start date:	09-01-2023		Sample analysis End date:	11-01-2023	

TEST RESULTS

MATERIAL		STACK		Discipline/ Group	CHEMICAL /ATMOSPHERIC POLLUTION		
S. No.	Sample No	Test Parameters	Unit of Measurement	Result	Method Reference	Requirement (Acceptable Limits)	Conformity
1	A11515	PM (Particulate Matter)	mg/Nm³	59.09	IS: 11255 (Part-1): 1985	-	-
2	A11516	SO₂ (Sulphur Dioxide)	mg/Nm³	27.5	IS: 11255 (Part-2): 1985	-	-
3	A11517	NO₂ (Oxide of Nitrogen)	mg/Nm³	48.42	IS: 11255 (Part-7): 1985	-	-

REMARK (if any) :- OK

*****END OF REPORT*****

Done by:- SUKANTA, TANMAY

SR. SCIENTIST: SUKANTA MAHATO

SR. SCIENTIST ASSTT.: TANMAY DUTTA

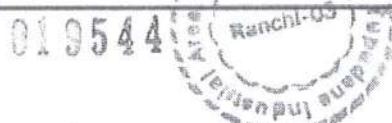
Declarations: 1. Sample will be retained for three months from the testing. 2. The test results relates only to the sample as received or sampled for testing and as per applicable parameters. 3. The report can not be used as an evidence in the court of law, without written approval of Laboratory can provide assurance that parts of a report are not taken out of context. 4. All disputes subject to Ranchi Jurisdiction only.

Doc. No.F01(78) Amnd. 08



Reviewed By:

Page No.1 of 1



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TEL.: 7808266661/2/3

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TC-5432

TEST REPORT

Test Report No.	ST/TR/23/01/5912	ULR No.	TC54322200006012F	Job Code:	M0410123
Date of receipt	09-01-2023	Date of Issue of Test Report		11-01-2023	
Customer's Name & Address	HIL LIMITED INDUSTRIAL AREA, JASIDIH, DEOGHAR, DIST.- DEOGHAR.				
Customer's Letter No.	LETTER REF. NO.: - NIL				
SAMPLE DETAILS:					
Sample No.	A11518, A11519, A11520		Material/ Item:	STACK EMISSION MONITORING	
Material Condition	GOOD		Environmental condition:	Laboratory Temperature at time of Analysis : 27°C	
Standard Applicable for testing	IS: 11255 (Part-1): 1985 , IS: 11255 (Part-2): 1985, IS: 11255 (Part-7): 2005		Deviation in testing from Standard	NO	
Application No	14969142		Application Date & time	04/01/2023 (02:42)	
Stack Name	FIBER BAG OPENING DEVICE	Production Capacity	375 FIBER SHEET/DAY	Stack Dia (M)	0.20
Stack Height from ground level (M)	17.7	Height of Sampling point from ground level(m)	14.4	Stack Temp.	40° C
Average Velocity (m/sec.)	5.43	Fuel Used	ELECTRICITY	Flow rate (Nm ³ /Min.)	22.09
Nature of Industry	CEMENT ASBESTS MANUFACTURING UNIT	Stack Shape	CIRCULAR	Date of Sampling	07-01-2023
Control Measure	-				
SAMPLING	Done by Laboratory		Done-by Customer		
IF, SAMPLING DONE BY LABORATORY	Sampling Location		LAT: 24.516951 LONG: 86.638947		
	Sampling Method/ Sampling Plan		ST/SOP/SE/01		
	Environmental Condition		Temp. 21°C		
	Sample Collected by		SUKANTA, TANMAY		
Sample analysis Start date:	09-01-2023		Sample analysis End date:	11-01-2023	

TEST RESULTS

MATERIAL		STACK		Discipline/ Group		CHEMICAL /ATMOSPHERIC POLLUTION	
S. No.	Sample No	Test Parameters	Unit of Measurement	Result	Method Reference	Requirement (Acceptable Limits)	Conformity
1	A11518	PM (Particulate Matter)	mg/Nm ³	1.51	IS: 11255 (Part-1): 1985	-	-
2	A11519	SO ₂ (Sulphur Dioxide)	mg/Nm ³	-	IS: 11255 (Part-2): 1985	-	-
3	A11520	NO ₂ (Oxide of Nitrogen)	mg/Nm ³	-	IS: 11255 (Part-7): 1985	-	-

REMARK (if any) :- OK

*****END OF REPORT*****

Done by:- SUKANTA, TANMAY

Sukanta Mahato
SR. SCIENTIST: SUKANTA MAHATO

Tanmay Dutta
SR. SCIENTIST ASSTT.: TANMAY DUTTA

Declarations: 1. Sample will be retained for three months from the testing. 2. The test results relates only to the sample as received or sampled for testing and as per applicable parameters. 3. The report can not be used as an evidence in the court of law, without written approval of Laboratory can provide assurance that parts of a report are not taken out of context. 4. All disputes subject to Ranchi Jurisdiction only.

Doc. No. F01(7.8) Amend. 08



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Page No.1 of 1

Reviewed By: *Dutta*

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40 P Tupudana Industrial Area, Ranchi-834003, Jharkhand

Tel.: - 7808266661/2/3

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TC-5432

TEST REPORT

Test Report No.	ST/TR/23/01/5429	ULR No.	TC54322000005529f	Job Code:	M0410123					
Date of receipt	09-01-2023	Date of Issue of Test Report			12-01-2023					
Customer's Name & Address	HIL LIMITED INDUSTRIAL AREA, JASIDIH, DEOGHAR, DISTT.- DEOGHAR.									
Customer's Letter No.	LETTER REF. NO.: NIL									
DATE:-09/01/2023										
SAMPLE DETAILS:										
Sample No.	A11521	Material/ Item:	APPROXIMATELY 5 LITRE WASTE WATER SAMPLE IN SEALED JAR							
Material Condition	SAMPLE IN SEALED JAR	Environmental condition:	Laboratory Temperature at time Analysis : 27°C							
Standard Applicable for testing	IS:3025 (ITS RELEVANT PARTS)	Deviation in testing from Standard	NO							
Application No	14969142	Application Date & time	04/01/2023 (02:42)							
SAMPLING	Done by Laboratory		Done-by-Customer							
IF, SAMPLING DONE BY LABORATORY	Sampling Location		N: 24°31'27.2" E: 86°38'05.03"							
	Sampling Method/ Sampling Plan		ST/SOP/SAMPLING/WATER/01							
	Environmental Condition		Temperature: 21°C							
	Sample Collected by		SUKANTA, DHEERAJ							
Sample analysis Start date:	09-01-2023		Sample analysis End date:	12-01-2023						

TEST RESULTS

MATERIAL		WASTE WATER SOURCE:- STP OUTLET -02	Discipline/ Group	CHEMICAL/WATER		
S. No.	Test Parameters	Unit of Measurement	Result	Method Reference	PERMISSIBLE LIMITS *	Conformity
(1) Chemical Test						
1	pH Value	-	7.2	IS:3025 (Part 11)-1983 RA 2002	5.5-9.0	YES
2	Total Dissolved Solid (TDS), Non- Filterable (mg/l)	mg/l	940	IS:3025 (Part 15)-1984	-	-
3	Total Dissolved Solid (TDS), Filterable (mg/l)	mg/l	906	IS:3025 (Part 16)-1984 RA 1996	-	-
4	Total Suspended Solids (TSS)	mg/l	34	IS:3025 (Part 17)-1984 RA 2002	100, Max.	YES
5	Oils & Grease	mg/l	0.02	IS:3025 (Part 39)-1991 RA 2003	10, Max.	YES
6	Biochemical Oxygen Demand (BOD) – 3 days at 27 deg C (mg/l)	mg/l	0.6	IS:3025 (Part 44)-1993	100, Max.	YES
7	Chemical Oxygen Demand (COD) – Closed reflux method (mg/l)	mg/l	40	IS:3025 (Part 58)-2006	250, Max.	YES

Done by:- Amrit, Pinky

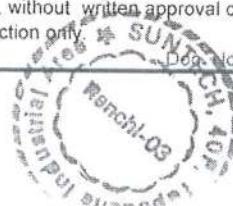
*****END OF REPORT*****

Declarations: 1. Sample will be retained for three months from the testing. 2. The test results relates only to the sample as received or sampled for testing and as per applicable parameters. 3. The report can not be used as an evidence in the court of law, without written approval of Laboratory can provide assurance that parts of a report are not taken out of context. 4. All disputes subject to Ranchi Jurisdiction only.

Deg. No F01(7.8) Amnd. 08



019554



Reviewed By: Deepa

Page No. 1 of 1

Authorised Signatory

HIL LIMITED
INDUSTRIAL AREA
JASIDIH, DISTT.- DEOGHAR
JHARKHAND- 814142

H I L LIMITED
RESULTS OF DUST SAMPLES (WORK PLACE ENVIRONMENT) OF JASIDIH UNIT
FOR THE MONTH OF JULY 2023

S. NO	CODE	LOCATION	DATE	DUST CONC. F/CC OF AIR	SHIFT A/B/C/ G	TYPE OF SAMPLE STATIC PERSONAL	FLOW RATE LPM	DURATION IN MINUTES	WORK CONDITIONS	REMARKS
1	J-1	Fibre Godown [J - 1]	04.07.2023	< 0.1 (0.03)	G	STATIC	1.0	60	Normal working condition	---
2	J-2	Fibre Feeding Area [J - 2]	08.07.2023	< 0.1 (0.05)	G	STATIC	1.0	60	Normal working condition	---
3	J-3	Milling Area [J - 3]	10.07.2023	< 0.1 (0.02)	G	PERSONAL	1.0	60	Normal working condition	---
4	J-4	Dry Waste / Pulp Preparation Area [J - 4]	07.07.2023	< 0.1 (0.03)	G	STATIC	1.0	60	Normal working condition	---
5	J-5	Raw Material Preparation Area [J - 5]	11.07.2023	< 0.1 (0.09)	G	PERSONAL	1.0	60	Normal working condition	Plenty of non fibrous dust seen.
6	J-6	Near S F Drum [J - 6]	12.07.2023	< 0.1 (0.03)	G	STATIC	1.0	60	Normal working condition	---
7	J-7	Reclamation Area [J - 7]	03.07.2023	< 0.1 (0.02)	G	PERSONAL	1.0	60	Normal working condition	---
8	J-8	Moulding Area [J - 8]	05.07.2023	< 0.1 (0.02)	G	PERSONAL	1.0	60	Normal working condition	---
9	J-9	Stock Yard [J - 9]	06.07.2023	< 0.1 (0.03)	G	PERSONAL	1.0	60	Normal working condition	---
10	J-10	Near Compound Wall [J - 10]	01.07.2023	< 0.1 (0.02)	G	STATIC	1.0	60	Normal working condition	---
Samples Collected by Mr. Deep Chowdhury										
Samples Counted by Mr. P. Krishna Kishore										


Dr. S. P. Vivek Chandra Rao
Vice President Occupational Health