

BJCL / BHILA / ENV/ 512

Dated 2nd October 2018

To
The Regional Director
Ministry of Environment Forests & Climate Change
Regional Office, (WZ),
E-5, Kendriya Paryavaran Bhawan
E-5, Arera Colony, Link Road -3, Ravishankar Nagar,
Bhopal (M.P)-462016

**Sub:- Compliance Status Report of E.C. for the period of April, 2018 to September, 2018
Granted by MoEFCC.**

Ref:- i) Letter No.J-11011/1001/2007- I A II (I) Dated 01-05-2008.
ii) Letter No.J-11011/1001/2007- I A II (I) Dated 19-04-2012.

Dear Sir,

Please find enclosed herewith the compliance Status for the period of **April, 2018 to September, 2018** to the condition laid down in the Environmental Clearance granted by MoEFCC, New Delhi.

Thanking You
Yours Faithfully

Shiv
Niraj Shrivastava (Unit Head)
Authorized Signatory
For **Bhilai Jaypee Grinding Plant, Bhilai**
(A Unit of Bhilai Jaypee Cement Limited)



For kind information pl.

- CC. The Chairman
Central Pollution Control Board,
CBD-Cum-Office Complex,
East Arjun Nagar
New Delhi - 110032
- CC Additional Principal Chief Conservator of Forests
Ministry of Environment Forests & Climate Change
Regional Office, (West Central Zone)
Ground floor, East Wing, New Secretary Building
Civil Lines, Nagpur - 440001
- CC The Member Secretary
Chhattisgarh Environment Conservation Board
Paryavas Bhavan, North Block,
Sector-19
Naya Raipur (CG) - ~~490001~~ **492002**
- CC The Chief Conservator of Forest
Regional Office, (WZ)
E-5, Kendriya Paryavaran Bhavan,
E-5, Arera Colony, Link Road- 3,
Bhopal (MP) 462016
- CC The Zonal Officer
Central Pollution Control Board,
Sahakar Bhawan, III Floor,
North TT Nagar, **BHOPAL- 462003**
- CC The Regional Officer
Regional Office, C.E. Conservation Board,
Bhilai, Durg (CG)

For kind information pl.

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 Name of the Project : BHILAI JAYPEE GRINDING PLANT (A UNIT OF BHILAI JAYPEE CEMENT LTD.)
 BHILAI STEEL PLANT PREMISES, BHILAI, DURG, (CHHATTISGARH)

Project Code : -

Clearance Letter No : F. No. J-11011/1001/2007-IA II (I) DATED 01-05-2008

Period of Compliance Report : April-2018 to September-2018

1. Specific Conditions

Sl. No.	Conditions	Compliance Status
i	On-line continuous stack monitoring facilities for all the stacks and adequate air pollution control systems shall be provided. Cement grinding shall be carried out in closed cement mill and shall have highly efficient bag filters. The stack emissions from various sources shall not exceed 50 mg/Nm ³ . Data to be submitted to the Ministry's Regional Office half yearly, CPCB and CECB quarterly	Continuous On –line Stack Monitoring system (Opacity Meter) has been installed in all major stacks. Continuous Emission Monitoring System (CEMS) has been installed in main mill stack which is connected with CPCB server. Adequate Bag House/ Bag filters have been installed as air pollution control system in closed cement mill grinding operations. Stack emission monitoring is periodically carried out, and the results are within prescribed norms of 30 mg/Nm ³ (Max). Monitoring data of Stack and Ambient Air quality for the period April-2018 to September, 2018 is being periodically submitted to RO, MoEF, CPCB and SPCB.
ii	The gaseous emissions (SPM, SO ₂ , NO _x , CO) and particulate matter from various units shall conform to the standards prescribed by the Chhattisgarh Environment Conservation Board (CECB). Bag House to collect fine dust from cyclones, jet pulse filters shall be provided at the transfer points. At no time, particulate emissions from the grinding unit shall exceed 50 mg/Nm ³ . Interlocking facility shall be provided in the	This is only a cement grinding unit. The gaseous and particulate matter emission from various units is being monitored regularly and the monitoring results conform to the standards prescribed. Monthly report is submitted to the Chhattisgarh Environment Conservation Board (CECB) regularly. Bag House/ Bag filters to collect fine dust at all transfer points, etc. is installed to control fugitive emissions. The stack emissions data is within prescribed norms of 30 mg/Nm ³ . The data of stack monitoring during the period of April-2018 to September, 2018 is given below

	pollution control equipment so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically	<table><tr><th>Avg. reading Mg/Nm3</th><th colspan="3">Packer No.1</th><th colspan="3">Packer No.2</th></tr><tr><td>Stack of bag house Cement mill No.- 1 & 2</td><td>Stack of packing plant bag filter No-1</td><td>Stack of packing plant bag filter No-2</td><td>Stack of packing plant bag filter No-3</td><td>Stack of packing plant bag filter No-4</td><td></td><td></td></tr><tr><td>24.7</td><td>19.3</td><td>19.4</td><td>19.1</td><td>18.8</td><td></td><td></td></tr></table>	Avg. reading Mg/Nm3	Packer No.1			Packer No.2			Stack of bag house Cement mill No.- 1 & 2	Stack of packing plant bag filter No-1	Stack of packing plant bag filter No-2	Stack of packing plant bag filter No-3	Stack of packing plant bag filter No-4			24.7	19.3	19.4	19.1	18.8																																																																																				
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iii	Ambient air quality monitoring stations (AAQMS) shall be set up in the down wind direction as well as where maximum ground level concentration of SPM, SO2 and NOx are anticipated as per statutory requirement in consultation with the Chhattisgarh Environment Conservation Board (CECB). Ambient air emissions shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality shall be carried out regularly in consultation with CECB and Data submitted to the Ministry's Regional Office half-yearly, CPCB and CECB quarterly.	All major pollution control equipments are interlocked with main process equipments. AAQMS have been installed as advised in four directions at four locations as per statutory requirement in consultation with CECB. The AAQ results are found within the prescribed norms. Air quality monitoring data is being submitted regularly to RO, MoEF, CECB and SPCB as per the schedule specified. <table><tr><th rowspan="2">Parameter</th><th colspan="12">Location</th></tr><tr><th colspan="3">Switch Yard</th><th colspan="3">Coal Yard</th><th colspan="3">Wagon Tippler</th><th colspan="3">Auto Work Shop</th></tr><tr><td></td><td>Min</td><td>Max</td><td>Average</td><td>Min</td><td>Max</td><td>Average</td><td>Min</td><td>Max</td><td>Average</td><td>Min</td><td>Max</td><td>Average</td></tr><tr><td>PM_{2.5} (µg/m3)</td><td>43.9</td><td>58.5</td><td>52.5</td><td>42</td><td>65.4</td><td>55.4</td><td>44.9</td><td>68.8</td><td>58.4</td><td>38.9</td><td>56.3</td><td>48.0</td></tr><tr><td>PM₁₀ (µg/m3)</td><td>18.0</td><td>22.5</td><td>20.7</td><td>18</td><td>27.2</td><td>23.6</td><td>20.4</td><td>31.4</td><td>25.5</td><td>17.3</td><td>21.4</td><td>19.2</td></tr><tr><td>SO₂ (µg/m3)</td><td>6.0</td><td>6.9</td><td>6.4</td><td>5.9</td><td>6.9</td><td>6.5</td><td>6.3</td><td>6.9</td><td>6.7</td><td>5.9</td><td>6.5</td><td>6.3</td></tr><tr><td>NO_x (µg/m3)</td><td>19.9</td><td>24.1</td><td>22.2</td><td>22</td><td>24.6</td><td>22.9</td><td>22.3</td><td>26.0</td><td>23.8</td><td>20.6</td><td>24.5</td><td>22.9</td></tr><tr><td>CO (mg/m3)</td><td>BDL</td><td>BDL</td><td>BDL</td><td>BDL</td><td>BDL</td><td>BDL</td><td>BDL</td><td>BDL</td><td>BDL</td><td>BDL</td><td>BDL</td><td>BDL</td></tr></table>	Parameter	Location												Switch Yard			Coal Yard			Wagon Tippler			Auto Work Shop				Min	Max	Average	Min	Max	Average	Min	Max	Average	Min	Max	Average	PM _{2.5} (µg/m3)	43.9	58.5	52.5	42	65.4	55.4	44.9	68.8	58.4	38.9	56.3	48.0	PM ₁₀ (µg/m3)	18.0	22.5	20.7	18	27.2	23.6	20.4	31.4	25.5	17.3	21.4	19.2	SO ₂ (µg/m3)	6.0	6.9	6.4	5.9	6.9	6.5	6.3	6.9	6.7	5.9	6.5	6.3	NO _x (µg/m3)	19.9	24.1	22.2	22	24.6	22.9	22.3	26.0	23.8	20.6	24.5	22.9	CO (mg/m3)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
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iv	Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and regularly monitored. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed. The fugitive emissions shall be suitably controlled by installing adequate dust collection and extraction system during	Secondary fugitive emissions are controlled as per CPCB guidelines/code of practice. For controlling secondary fugitive emissions: • 34 nos. of Bag House / Bag Filters have been installed at loading/ unloading points and at all the material transfer points. • Water sprinkling arrangement has been provided at strategic points. • Covered conveyor belts are used for transportation of raw materials, etc. • All internal roads within the plant premises have been concreted. • Good housekeeping practices are being followed for controlling the dust emissions.																																																																																																							

	loading and unloading points and at all the transfer points. Fugitive emissions shall also be controlled by providing silos and closed roof sheds for raw materials and product. Water sprinkling arrangement shall be made in the raw material stock yard and cement bag loading areas.									
v	Total water requirement from SAIL shall not exceed 150 m ³ /hr. Treated waste water shall be recycled and reused in the process, dust suppression and Green Belt Development. Domestic wastewater shall be treated in Sewage Treatment Plant (STP) and used for Green Belt Development. No Effluent shall be discharged outside the factory premises and 'Zero discharge' shall be strictly followed.	The quantity of domestic waste water generated from the Plant is very negligible and the common facility of Bhilai Steel Plant Sewage Treatment Plant (STP) is used. In operational phase, entire waste water is being re-used and recycled from cooling tower. The plant is thus operating on "Zero effluent discharge" philosophy. The Data of water consumption taken from SAIL during the period of April -2018 to September-2018 is given below- <table><tr><td></td><td>Total Quantity in m³/month</td><td>Quantity in m³/day</td><td>Quantity in m³/h</td></tr><tr><td>Average</td><td>1403.3</td><td>45.9</td><td>1.9</td></tr></table>		Total Quantity in m ³ /month	Quantity in m ³ /day	Quantity in m ³ /h	Average	1403.3	45.9	1.9
	Total Quantity in m ³ /month	Quantity in m ³ /day	Quantity in m ³ /h							
Average	1403.3	45.9	1.9							
vi	No surface or ground water shall be used. In case of any change in source of water necessary Permission from the concerned department shall be obtained and submitted to the Ministry's Regional Office in Bhopal.	No ground water / surface water is used. Our water requirement is met from SAIL Supply only.								
vii	All the cement dust collected from pollution control devices like bag house, bag filters etc. shall be recycled and reused in the process and used for cement manufacturing. STP sludge shall be used as manure. Waste oil shall be sold to the authorized recyclers/ re-processors only.	The unit is designed for close circuit cement mill grinding operations and all the cement dust collected from pollution control devices like bag house, bag filters etc. is being recycled and reused in the process and used for cement manufacturing. Not applicable, as we do not have any STP Hazardous Waste Authorization renewed from CECB vide letter No. 4994/HSMD/HO/CECB/2017/ Naya Raipur dated 12/12/2017, valid till 05th, November, 2022 for sale of used oil to the authorized recyclers/ re-processors only.								
viii	An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provisions shall be made	Not applicable, as this is only a stand-alone cement grinding unit and no cement Kiln has been installed for pyro-processing.								

	accordingly.	
ix	As proposed, green belt shall be developed in 4.62 ha. (33 %) out of total 14 ha. area to reduce impacts of fugitive emissions. Central Pollution Control Board (CPCB) guidelines shall be followed in planning and developing green belt and selection of species etc.	As per the CPCB guideline for development of Green belt inside the factory areas that was 33% of 14 ha. Area (i.e. 4.62 ha), BJCL, Bhilai planted 350 sapling in this period and also achieved the target and planted about 11345 plants as per the guideline till date. However we are committed to maintain the same and try to develop more area inside the factory for further plantation.
x	Other necessary statutory clearances from other concerned Departments including 'No Objection Certificate' from the Chhattisgarh Environment Conservation Board (CECB) shall be obtained prior to commencement of construction and/or operation.	No Objection Certificate' (NOC) for construction was obtained from the Chhattisgarh Environment Conservation Board (CECB) vide ref. No. 5788/TS/CECB/2008 dated 08.10.2008. Consent to Operate from the Chhattisgarh Environment Conservation Board (CECB) was obtained before start of operation. Subsequently consent renewals are regularly being obtained from CECB after due compliance of consent conditions.
xi	All the recommendations mentioned in the Corporate Responsibility for Environmental Protection (CREP) guidelines shall be strictly followed and complied.	All relevant CREP guidelines are being followed

2. General Conditions:

Sl. No.	Conditions	Compliance Status
i	The Project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the State Government.	Consent to Operate from the Chhattisgarh Environment Conservation Board (CECB) was obtained before start of operation. Subsequently consent renewals are regularly being obtained from CECB after due compliance of consent conditions.
ii	No further expansion or modifications in the Plant should be carried out without prior approval of the Ministry of Environment & Forests.	Noted and Agreed
iii	At least four Ambient air quality monitoring stations (AAQMS) should be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the Chhattisgarh Environment Conservation Board (CECB).	Ambient Air quality monitoring station has been established in four directions in consultation with CECB considering windrose pattern and other consideration of the location as per CPCB guidelines. Periodic monitoring is being carried out and the data are regularly

	Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhopal and the CECB / CPCB once in six months.	submitted to all the concerned authorities. Six monthly compliance report for the period from October, 2017 to March, 2018 was submitted to Regional Office, MOEF &CC & Regional Office, CECB & MS, CECB vide our letter no BJCL/BHILAI/ENV/484 dated 03.05.2018. Six monthly data on ambient air quality and stack emission for the period from April, 2018 to March, 2018 was submitted to Regional Office, MOEF &CC & Regional Office, CECB & MS, CECB vide our letter no BJCL/BHILAI/ENV/508 dated 05.10.2018																																		
iv	Industrial Wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time.	No industrial wastewater is generated, as this is a standalone cement grinding unit, hence not applicable.																																		
v	The overall noise levels in and around the Plant areas shall be kept well within the standards (85 dbA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Noise level in and around plant is maintained within the prescribed norms under EPA rules. Noise control measures including silencers, enclosures etc. have been provided on all sources of noise generation. Moreover adequate green belt is being developed to mitigate the noise levels in surrounding areas. Monitoring of noise levels is carried out periodically as per guidelines and reports are being submitted to CECB regularly. The Average noise level during the period of April-2018 to September-2018 at various locations within the plant premises are given below: <table><tr><th rowspan="3">Parameter</th><th colspan="8">Location</th></tr><tr><th colspan="2">Switch Yard</th><th colspan="2">Coal Yard</th><th colspan="2">Wagon Tippler</th><th colspan="2">Auto Work Shop</th></tr><tr><th>Day</th><th>Night</th><th>Day</th><th>Night</th><th>Day</th><th>Night</th><th>Day</th><th>Night</th></tr><tr><td>Average-dB(A)</td><td>59.4</td><td>57.0</td><td>59.7</td><td>57.2</td><td>60.0</td><td>57.4</td><td>59.2</td><td>57.1</td></tr></table>	Parameter	Location								Switch Yard		Coal Yard		Wagon Tippler		Auto Work Shop		Day	Night	Day	Night	Day	Night	Day	Night	Average-dB(A)	59.4	57.0	59.7	57.2	60.0	57.4	59.2	57.1
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vi	The project proponent shall also comply with all the	All the environmental protection measures and safeguards																																		

	environmental protection measures and safeguards recommended in the EIA / EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	recommended in the EIA / EMP report are complied. A number of Socio economic development activities were carried out by the company in surrounding villages since start of plant. (Providing FOC Cement for construction / Repairing and maintenance of schools/public buildings/religious places, etc. Medical Health checkup camps organized in various places. Leveling and dressing of play grounds in the nearby community areas. Wooden Bench provided to Vigyaan Vikas Kendra, Durg. Support provided for upliftment of sports like volley ball and motor sports in the state. Flag day contribution to district Solders. Welfare contribution to leading Eye hospital, Raipur and also provided Semi Auto Analyzer to Dist hospital Durg. Distribution of Sewing machine & Diaries to local SHG's. Participation in various religious and Cultural activities etc.
vii	The project Authorities shall provide Rs. 1,515 Lakhs and Rs. 70 Lakhs towards total capital cost and recurring cost/annum for environmental pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government and an implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of this Ministry at Bhopal. The funds so provided shall not be diverted for any other purpose.	A separate fund has been created exclusively earmarked towards capital cost and recurring cost of Environmental pollution control equipments which have been installed at site and other environmental protection and improvement activities. The funds so provided are strictly not diverted for any other purpose. About 2.86 lakhs has been used for the green belt development during April-18 to September-18.
viii	The Regional Office of this Ministry at Bhopal / CPCB / CECB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Six Monthly compliance reports of stipulated EC conditions along with the monitored data are being submitted regularly to Regional Office MoEF Bhopal , CPCB /CECB.
ix	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the CECB and may also seen at website of the Ministry of Environment and forest at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter ,at least in two local news papers that are widely circulated in the region of which one	The advertisement for clearance granted by MoEF New Delhi has already been published in two local News papers on Date 08-05-2008. Copy already submitted in the previous compliance report.

	shall be in the vernacular language of the locality concerned and a copy of the same be forwarded to the Regional Office at Bhopal.	
x	The Project Authorities shall 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.	Financial closures date is 8th May, 2008 and land development work was commenced on 16th May, 2009. The plant has commenced trial operations on 21st June 2010. Information in this regard has already been submitted to R.O. and Member Secretary, Chhattisgarh Board vide our letter No.BJC / Bhilai / 03 dated 13th July 2010.

Name of the Project : BHILAI JAYPEE GRINDING PLANT (A UNIT OF BHILAI JAYPEE CEMENT LTD.)
BHILAI STEEL PLANT PREMISES, BHILAI, DURG, (CHHATTISGARH)

Project Code : -

Clearance Letter No : F. NO. J-11011/1001/2007-IA II (I) DATED 19-04-2012

Period of Compliance Report: April-2018 to September-2018

1 Additional Conditions:

Sl. No.	Details of Conditions	Status
4 i	The National Ambient Air Quality Standards issued by the Ministry shall be followed	Regular monitoring of the Ambient Air Quality (AAQ) is carried out at four locations set up in consultation with CECB and the National Ambient Air Quality Standards are strictly being followed.
ii	The project proponent shall submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitoring data (both in hard copies as well as by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.	Six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitoring data are regularly being submitted both in hard copies as well as by e-mail. The additional conditions specified in the amendment in the EC issued by the MoEF on 19/04/2012, for PPC production is also incorporated herewith.
iii	The Environmental Statement for each financial year ending 31st March in Form - V as is mandated to be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules 1986 shall also be put on the website of the company along with the status of compliance of the environmental conditions and shall also be sent to the respective Regional Office to the MOEF by e-mail.	Agreed and being complied with. Presently, since only Portland Slag Cement (PSC) is being manufactured, Environmental Statement based on PSC product only is being submitted to the State Pollution Control Board. Any production of PPC shall be taken up on need basis after due compliances of the conditions specified in the amendment in the EC issued by the MoEF on 19/04/2012.
iv	The Company shall submit within three months their policy towards Corporate Environmental Responsibility which should inter-alia address	The details pertaining to all the issues are incorporated in 'System of ensuring compliances and reporting of non-compliance/violation of Environmental Norms' attached as <u>Annexure-I</u> .

	(i) Standard Operating Process / procedure to bring into focus any infringement / deviation / violation of environmental or forest norms/conditions. (ii) Hierarchical system or Administrative order of the company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non compliance / violation environmental norms to the Board of Directors of the company and / stakeholders or shareholders.	
5	The company shall comply with all the conditions stipulated vide letter of even no. dated 1-5-2008.	Compliance reports are regularly being submitted with all the conditions stipulated vide letter of even no. dated 1-5-2008.

NOTE;- Still we are Manufacturing only Portland Slag Cement (PSC). Manufacturing of PPC (Portland Pozzolana Cement) is on need basis. Due to less market demand the manufacturing of the same (PPC) is not required presently.

SYSTEM OF ENSURING COMPLIANCES AND REPORTING OF NON-COMPLIANCE/ VIOLATION OF ENVIRONMENTAL NORMS TO THE BOARD

At all units of Jaypee Cement, the **Environment Management Cell (EMC)**, headed by Sr. General Manager and supported by a well equipped Environmental Monitoring Laboratory is having qualified & well experienced team of Environmental Engineers/ Scientists. EMC is responsible for the day to day activities related to the monitoring of environmental parameters, compliances of general and specific conditions of Environmental Clearance, maintaining records, data compilation and analysis, obtaining consents, authorization and other statutory permissions of Hazardous Wastes, ground water withdrawal etc. Any non-compliance/ violation of the environment norms are immediately reported to the unit Head, who is directly responsible to the compliances as per the law.

For the internal surveillance of the compliances and to provide technical support in resolving the environmental issues, the company adopts two tier approach, one at Zonal Level and other at the Corporate level to ensure that the units conform to the environmental standards and all other compliances, prescribed by the SPCB/ MoEF/ CPCB.

In case, any minor violation of advisory nature is observed during inspection by the SPCB/CPCB/ MoEF official(s) and communicated in writing to the plant, it will immediately be reported to the Unit Head and will be rectified through concerned departmental head. In case of major non compliance/ violation of the environmental norms or any Notice/ Direction under Section 31 A of the Air (Prevention and Control of Pollution) Act 1981 under Section 33 A of the Water (Prevention and Control of Pollution) Act 1974 under Section 5 of the Environment (Protection) Act 1986 received, is immediately reported by the Head, EMC to the Unit Head, Zonal Environmental Head, President/ Head Corporate Environment group. President / Head Corporate Environment group reports this matter to the Managing Director, Executive Chairman and to the Board of Directors of the Company. He is fully responsible for the implementation of all the decisions of the Board, related to the statutory compliances to the environmental regulation and overall improvement of the green image of corporate environment.