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105/MCCPL/ENV/2023-24/158

Date -: 12/06/2023

To,  
The Member Secretary,  
Chhattisgarh Environment Conservation Board,  
Parayas Bhawan, North Block, Sector-19,  
Atal Nagar Raipur, Chhattisgarh.

Sub.:- Maruti Clean Coal and Power Limited 1X300 MW Thermal Power Plant Vill. Bandhakhar, Tehsil Pali, District Korba, Chhattisgarh- Half Yearly report on status of implementation of Environment Clearance for the period of 1<sup>st</sup> October 2022 to 31<sup>st</sup> March 2023 - Reg.

Ref.:- Environmental Clearance No.104/SEIAA-CG/EC/TPP/KOR/79/10,Dated12.05.2010


Respected Sir,

Reference to condition no. (XLII) of Environment Clearance, please find enclosed herewith Half Yearly report on status of implementation of Environment Clearance for the period of 1<sup>st</sup> October 2022 to 31<sup>st</sup> March 2023.

Hope this is in line with stipulated condition of Environment Clearance.

Thanking you.

For, Maruti Clean Coal and Power Limited

  
Authorized Signatory

Encl: - As above.



- CC: 01. The Inspector General Forest (Central), IRO. MoEF &CC, Govt. of India, Raipur (C.G.).  
02. Member Secretary, State EIA Authority (SEIAA) Chhattisgarh, Raipur, C.G  
03. Regional Office, Chhattisgarh Environment Conservation Board, Korba, (C.G.)

## MARUTI CLEAN COAL AND POWER LIMITED

Regd. Office : Ward No.42, Building No.14, Near Income Tax Colony, Civil Lines, Raipur (C.G.) Pin- 492001

Tele Fax 0771-4264967 CIN No.U24292CT1999PLC013364

Works Power Plant - Village-Bandhakhar, Tel.-Pali, Distt- Korba(C.G.) Washery - Village - Ratija, Teh.- Pali, Distt.- Korba(C.G.)

o/c



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Krishnamoorthy Govindan <krishnamoorthy.govindan@acbindia.com>

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## Six Monthly EC Compliance Report (Oct 2022 to March 2023) -M/s. Maruti Clean Coal & Power Limited, 300 MW Thermal Power Plant-Reg.

1 message

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**Krishnamoorthy Govindan** <krishnamoorthy.govindan@acbindia.com>

Thu, Jun 22, 2023 at 1:41 PM

To: IRO Raipur <iro.raipur-mefcc@gov.in>, seiaacg@gmail.com, hocecb@gmail.com, Regional Office Korba <rocecbkorba@gmail.com>

Cc: Kamal Kant <kamal.kant@acbindia.com>, G Sambasiva Rao <Sambasiva.Rao@acbindia.com>, RP Vishwakarma <rpvishwakarma@acbindia.com>, RAJESH KUMAR SONKAR <rajeshsonkar@mccplpower.com>

Dear sir,

Please find attached herewith Six monthly EC compliance report of M/s. Maruti Clean Coal & Power Limited, 300 MW Thermal Power Plant at Village- Bandhakhar, Tehsil-Pali, District-Korba, Chhattisgarh for the period of October 2022 to March 2023.

Note: Hard copy of six monthly compliance reports sent by courier.

This is for your information and record please.

Thanks with regards  
Environment Department



**Six Monthly EC Compliance Report (Oct 2022 to March 2023) MCCPL 300 MW TPP.pdf**  
23343K



# **MARUTI CLEAN COAL AND POWER LIMITED**



## **SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE**

**1X300 MW THERMAL POWER PLANTS  
At  
Village-Bandhakhar, Tehsil-Pali, District-Korba (C.G.)**

**Submitted to:**

**The Inspector General Forest (Central), IRO. MoEF&CC, Govt. of India, Raipur (C.G.)  
Member Secretary, Chhattisgarh Environment Conservation Board, Raipur (CG)  
Member Secretary, State Level EIA Authority, Raipur (CG)  
Regional Office, Chhattisgarh Environment Conservation Korba, Raipur (CG)**

**Submitted by:**

**MARUTI CLEAN COAL AND POWER LIMITED**

**PERIOD: 1<sup>st</sup> October 2022 to 31<sup>st</sup> March 2023.**

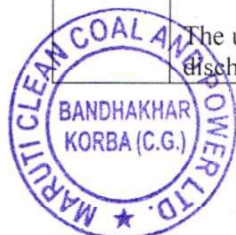


Compliance Report of the conditions stipulated under the Environmental Clearance of 1x300 MW Thermal Power Project of Maruti Clean Coal And Power Limited issued Vide Letter No. 104/SEIAA-CG/EC/TPP/KOR/79/10 Dated 12 /05/ 2010.

Report period: 1<sup>st</sup> October 2022 to 31<sup>st</sup> March 2023.

### Compliance Conditions

No.	Specific Conditions	Detailed Compliance Status														
(i)	<p>The acquisition of land for the 1x300 = 300 megawatt coal based thermal power plant shall be restricted to maximum 174.50 Ha (431.0 acres) with the following break-up:</p> <table><tr><th>Description</th><th>Area (acres)</th></tr><tr><td>Land for Main Plant</td><td>83.0</td></tr><tr><td>Ash Disposal Area (including 14 acres of green belt)</td><td>82.0</td></tr><tr><td>Greenbelt and landscaping</td><td>130.0</td></tr><tr><td>Colony/Township (including 07 acres of greenbelt)</td><td>33.0</td></tr><tr><td>Unutilized Land for HT lines and Road Clearance</td><td>103.0</td></tr><tr><td><b>Total</b></td><td><b>431.0</b></td></tr></table>	Description	Area (acres)	Land for Main Plant	83.0	Ash Disposal Area (including 14 acres of green belt)	82.0	Greenbelt and landscaping	130.0	Colony/Township (including 07 acres of greenbelt)	33.0	Unutilized Land for HT lines and Road Clearance	103.0	<b>Total</b>	<b>431.0</b>	<p>The project authority implemented proposed project within 174.50 ha (431.0 acres) as per environmental clearance land use breakup. Approved layout drawing Submitted to MoEF &amp; CC Raipur, Dated- 03.04.2023</p>
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Unutilized Land for HT lines and Road Clearance	103.0															
<b>Total</b>	<b>431.0</b>															
(ii)	<p>The confirmed coal linkage to meet the requirement for requisite quantity of coal (4800 TPD) for the ultimate capacity shall be obtained before commissioning the project. Copy of the coal linkage shall be submitted to the SEIAA, CG and Regional Office, Ministry of Environment and Forests, Government of India, Bhopal.</p>	<p>Coal linkage obtained and copy submitted to the SEIAA, CG and Regional Office, Ministry of Environment and Forests, Government of India, Bhopal. Coal linkage doc copy Submitted to MoEF &amp; CC Raipur, Dated- 03.04.2023</p>														
(iii)	<p>Project proponent shall provide adequate facility for proper treatment of industrial and domestic effluent. Project proponent shall provide effluent treatment plant before commissioning of the plant. 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 same alternate arrangement shall be made. Project proponent shall ensure the treated effluent quality within standard prescribed by Ministry of Environment and Forests, Government of India.</p>	<ul style="list-style-type: none"><li>• Appropriate effluent treatment plant for the treatment of industrial effluent (ETP) capacity of 50 m<sup>3</sup>/hr and a Sewage treatment plant capacity of 10 m<sup>3</sup>/hr for the domestic sewage installed and operational.</li><li>• Treated effluent quality is maintained within standards prescribed by Ministry of Environment and Forests, Government of India. Effluent Monitoring Report Submitted to MoEF &amp; CC Raipur, Dated- 03.04.2023</li></ul>														
(iv)	<p>Any liquid effluent what so ever generated from industrial activities including ash dyke (if any) 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. All the industrial effluent including ash dyke effluent (if any) generated shall be re-circulated/reused after proper treatment. Project proponent shall provide sewage treatment plant of adequate capacity for treatment of domestic effluent generated from township.</p>	<ul style="list-style-type: none"><li>• No liquid effluent is discharged into the river or any surface water bodies.</li><li>• DM water blow down after treatment in neutralization pit is being used for dust suppression. Blow down water after treatment is being used for green belt development.</li><li>• We have installed 10 m<sup>3</sup>/hr STP for domestic effluent treatment and presently working good condition. Details submitted to MoEF &amp; CC Raipur, Dated- 03.04.2023</li></ul>														
	<p>The untreated/treated domestic effluent shall not be discharged into the river or any surface water</p>															







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**Report period: 1<sup>st</sup> October 2022 to 31<sup>st</sup> March 2023.**

	<p>bodies. The treated domestic effluent shall be used for plantation purpose after proper disinfections.</p> <p>Industry shall make proper arrangements of suitable drains/pipe networks to ensure adequate flow for utilization of treated effluent inside the premises.</p> <p>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"><li>• Not discharged any Untreated/treated domestic effluent into river or any surface water bodies. After treatment domestic effluent is being used for green belt development.</li></ul> <p>Industry provided suitable garland drain facility inside the plant premises. Details Submitted to MoEF &amp; CC Raipur, Dated- 03.04.2023</p> <ul style="list-style-type: none"><li>• The plant is operating on Zero Discharge Concept and no effluent is drained outside the plant premises except monsoon season.</li></ul>
(v)	Project proponent shall provide adequate measuring arrangements for the measurement of water utilized in different categories and effluent generated before commissioning of the plant.	Adequate metering arrangement for the measurement of water utilized for different categories and effluent generation has been installed. Details Submitted to MoEF & CC Raipur, Dated- 03.04.2023
(vi)	Project proponent shall provide independent and dedicated air cooled condensers with auxiliary system for each turbine unit as per the proposal submitted along with the application	Independent and dedicated air cooled condensers with auxiliary system for 300 MW turbine unit are installed. Details Submitted to MoEF & CC Raipur, Dated- 03.04.2023
(vii)	Closed cycle cooling system with cooling towers shall be provided. COC of at least 6 shall be adopted and the effluents shall be treated as per the prescribed norms. Minimum water drawl for makeup purposes shall be ensured.	Closed circuit system with a COC of 6 is maintained for conservation of water as per the prescribed norms. Details Submitted to MoEF & CC Raipur, Dated- 03.04.2023 Water balance and water allotment and agreement letter Submitted to MoEF & CC Raipur, Dated- 03.04.2023





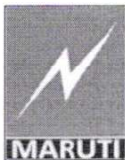
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**Report period: 1<sup>st</sup> October 2022 to 31<sup>st</sup> March 2023.**

(viii)	<p>Project proponent shall provide adequate air pollution control arrangements at all point and non point sources.</p> <p>Electro Static Precipitator(s) having efficiency of not less than 99.9% (with maximum designed emission of particulate matter less than 50 mg/Nm<sup>3</sup> in one field out condition)in all the boilers, suitable and effective air pollution control equipments (adequate dust extraction system such as cyclones/bag filters) for the control of emission from processes/operations and for the control of emission during the handling and transportation of raw materials/coal, fly ash/bottom ash etc shall be installed before commissioning of the plant.</p> <p>Project proponent shall install suitable and effective air pollution control equipments at all the transfer points, junction points etc. All the conveying system transfer point junction point etc shall be covered.</p> <p>Closed conveying system with dust suppression mechanism shall be used for transport of coal and for carrying the ash to the disposal areas.</p>	<p>Air pollution control equipment's at all point and non-point source of pollution have been installed and operational. Details Submitted to MoEF &amp; CC Raipur, Dated- 03.04.2023</p> <ul style="list-style-type: none"><li>• High efficiency ESP with Fabric filter is installed to maintain an emission level of <math>\leq 50</math> mg/Nm<sup>3</sup>. Closed conveying system along with HCSD System is used for conveying of ash to disposal area.</li></ul> <p>Details Submitted to MoEF &amp; CC Raipur, Dated- 03.04.2023</p> <ul style="list-style-type: none"><li>• Adequate number of Dust Suppression and Extraction System are installed. Space has been kept for further retrofitting of air pollution control systems in case of further stringent of particulate matter emission limit is required.</li><li>• All the conveying system transfer point junction points are covered adequately.</li><li>• For controlling fugitive dust, regular sprinkling of water in coal handling and other vulnerable areas of the plant is being done as per requirement.</li></ul>		
	<p>Adequate provision shall be made for sprinkling of water at strategic locations for ensuring fly ash does not get air borne. For controlling fugitive dust regular sprinkling of water in coal handling and other vulnerable areas of the plant shall be ensured. The emission of pollutants from any point sources shall not exceed the following limit: -</p> <table><tr><td><b>Particulate Matter</b></td><td><b>50 mg/Nm<sup>3</sup>(Fifty Milligram per Normal Cubic Meter).</b></td></tr></table> <p>Project proponent shall provide proper space provision for further retrofitting of air pollution control systems is case of further stringent of particulate matter emission limit.</p>	<b>Particulate Matter</b>	<b>50 mg/Nm<sup>3</sup>(Fifty Milligram per Normal Cubic Meter).</b>	
<b>Particulate Matter</b>	<b>50 mg/Nm<sup>3</sup>(Fifty Milligram per Normal Cubic Meter).</b>			
(ix)	<p>As per the proposal submitted the project proponent should examine the feasibility of laying a railway siding for the transport of raw coal. Hence, rail transport should be attempted as per priority. In this regard, an action plan shall be submitted within three months from the issue of this letter. Road transport should be carried out only if the rail transport is totally unavoidable in case of road transport, transportation should be in covered trucks.</p>	<ul style="list-style-type: none"><li>• Pre-feasibility report for laying railway line has been approved by M/s. SECR.</li><li>• We are also examining on feasibility of lay pipe line conveyor from Mines to our plant.</li></ul>		
(x)	<p>All air pollution control systems shall be kept in good running conditions all the time and failure (if any), shall be immediately rectified without delay</p>	<p>All the pollution control systems are maintained in good running conditions.</p>		







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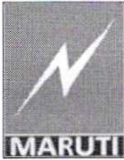
**Report period: 1<sup>st</sup> October 2022 to 31<sup>st</sup> March 2023.**

	otherwise same alternate arrangement shall be made. In the event of any failure of any pollution control system adopted by the industry, the respective production unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	
(xi)	<p>Regular monitoring of ground level concentration of SO<sub>2</sub>, NO<sub>x</sub>, SPM and RSPM shall be carried out in the impact Zone and records maintained.</p> <p>If at any stage these levels are found to be exceed the prescribed limits, necessary control measures shall be provided immediately.</p> <p>The location of the monitoring stations and frequency of monitoring shall be decided in consultation with CECB, Raipur.</p> <p>Periodic reports shall be submitted to SEIAA Chhattisgarh and the Regional Office Bhopal of Ministry of Environment and Forests, Government of India.</p>	<ul style="list-style-type: none"><li>• Monthly Environmental monitoring has been carried out through NABL accredited lab for ground level concentration of SO<sub>2</sub>, NO<sub>x</sub>, SPM and RSPM in the impact Zone and records being maintained regularly.</li><li>• Necessary control measures to be taken immediately.</li></ul> <p>The locations of the monitoring stations and frequency of monitoring has been fixed by CECB, Raipur. Monitoring location maps submitted to MoEF &amp; CC Raipur, Dated- 03.04.2023</p> <p>Periodic reports are being submitted to SEIAA Chhattisgarh and the Regional Office Bhopal of Ministry of Environment and Forests, Government of India, Enclosed as – Monthly Environment Monitoring Report attached (Oct 2022 to March 2023)</p>
(xii)	Project proponent shall provide a flue stack of 220 meters height for adequate dispersal of gaseous pollutants emitted from boilers with continuous online monitoring instrument for SO <sub>x</sub> , NO <sub>x</sub> , and Particulate Matter. The height of other stack(s) shall not be less than 30 meters.	Flue stack of 220 m height with continuous online monitoring facility for SO <sub>x</sub> , NO <sub>x</sub> and Particulate Matter provided. Stack photographs Submitted to MoEF & CC Raipur, Dated- 03.04.2023
(xiii)	Adequate number of permanent ambient air quality monitoring stations (not less than four) in the core zone as well as buffer zone for SPM, RPM, CO, NO <sub>x</sub> , and SO <sub>2</sub> 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 network 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 analysed and submitted to the SEIAA, C.G. and Regional Office, Ministry of Environment and Forests, Government of India, Bhopal in every six months.	<p>MCCPL installed four numbers of Continuous Ambient Air Quality Monitoring Stations (CAAQMS). Details submitted to MoEF &amp; CC Raipur, Dated- 03.04.2023</p> <ul style="list-style-type: none"><li>• The data collected is being submitted to the Chhattisgarh Environment Conversation Board, Raipur, Regional Office, Chhattisgarh Environment conservation Board, Korba, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment &amp; Forests, Government of India, Bhopal.</li></ul>



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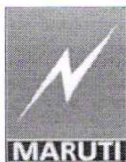
**Report period: 1<sup>st</sup> October 2022 to 31<sup>st</sup> March 2023.**

(xiv)	Space provision for installation of flue gas de-sulphurization plant (FGD) shall be made so that the same could be installed, if required from environmental angle. Due to commissioning of the power generation units, if ambient air of nearby areas exceeds the prescribed permissible limit for respective sensitive areas, rural, residential and other areas, project proponent shall install flue gas de-sulphurization units immediately without any delay.	<ul style="list-style-type: none"><li>• Necessary space has been provisioned for FGD.</li><li>• Ambient air has never exceeded and also there is no surrounding effect like sensitive, rural, residential and other area so far.</li></ul>
(xv)	Project proponent shall install separate electric metering arrangements with time totalizer 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 fuel supply system and shall remain tripped till the pollution control device/devices are made functional again/rectified to achieve the desired efficiency	MCCPL already installed separate electric metering arrangements with time totalizer for the running of pollution control devices are installed. Details submitted to MoEF & CC Raipur, Dated- 03.04.2023
(xvi)	Project proponent shall incorporate total ash utilization as integral part of the project. Project proponent shall install dry fly ash extraction system so that ash generated during the power generation, collected in dry form and it shall be utilized 100% for other beneficial uses such as brick/block/products making, road construction, cement making, abandoned mines filling and low lying area filling, ash dyke height raising etc. as per guidelines/notification of Ministry of Environment and Forests, Government of India/Central Government/Central Pollution Control Board. Project proponent shall provide silos of adequate capacity with pneumatic/automatic arrangement of dry ash withdrawal to avoid dust emissions for dry collection and withdrawal of fly ash generated to facilitate the use of fly ash for different beneficial purposes such as brick/block/products making, road construction, cement making etc. Project proponent shall also use fly ash /bottom ash/pond ash based products for the construction activities. Project proponent shall adopt dry ash disposal system or high ash concentration slurry disposal system for disposal of unutilized fly ash and bottom ash in conventional slurry mode in ash pond.	<p>Silos of adequate capacity with pneumatic/automatic arrangement of dry ash storage constructed and in use. Silo photographs submitted to MoEF &amp; CC Raipur, Dated- 03.04.2023</p> <ul style="list-style-type: none"><li>• High Concentration Slurry Disposal System (HCSD) system installed and being used.</li><li>• Dry bottom ash handling system is installed and being used.</li><li>• Ash silo of adequate capacity is provided, Ash sent to brick making, road construction etc.</li></ul>
(xvii)	Project proponent shall install fly ash brick/block/products manufacturing machine of adequate capacity before start of construction activities of super structure of 1 x 300 megawatt units. Project proponent shall utilize the fly ash bricks/blocks etc manufactured by own fly ash	<p>Fly Ash Brick Plant installed and operational. Details submitted to MoEF &amp; CC Raipur, Dated- 03.04.2023</p> <ul style="list-style-type: none"><li>• Fly ash used for making of ash brick/ block/ products and also construction</li></ul>



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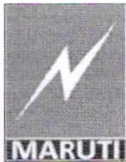
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**Report period: 1<sup>st</sup> October 2022 to 31<sup>st</sup> March 2023.**

	brick/block manufacturing machine in its construction activities. Project proponent shall procure fly ash from nearby power plants for manufacturing of fly ash brick/block/products till the commissioning of the power plant. After commissioning of the power plant, the fly ash generated from power plant shall be utilized for manufacturing of fly ash brick/block/products. Project proponent shall install additional fly ash brick/block/products manufacturing machine of adequate capacity before commissioning of the power plant	purpose.
(xviii)	Project proponent shall follow the guidelines, notification of fly ash/bottom ash/pond ash issued by Ministry of Environment and Forests, Government of India/Central Government/Central Pollution Control Board from time to time. 100% fly ash utilization shall be achieved within 9 years in accordance with the notification on fly ash utilization SO 763 (E) dated 14/09/1999 and the amendments made therein from time to time. Industry 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 regarding use of fly ash/bottom ash/pond ash.	• MCCPL following all guidelines issued by the Ministry of Environment and Forests, Government of India/Central Government/Central Pollution Control Board for utilization of fly ash/bottom ash/pond ash.
(xix)	Ash pond area shall be provided with impervious lining with suitable leachate collection systems to avoid any leaching of contaminants into underground water table/surface water. Project proponent shall provide suitable drainage systems around the fuel stock yard.  Water sprinklers shall also be provided to control the ash emission from dyke area.  Adequate safety measures shall also be adopted for the ash dyke to prevent any breaching	Impervious lining and suitable leachate collection has been provided. Details submitted to MoEF & CC Raipur, Dated- 03.04.2023  Drainage systems around the fuel stock yard have been provided. Details submitted to MoEF & CC Raipur, Dated- 03.04.2023 • Adequate water sprinkling system has been provided around the dyke area. • Safety measures as per norms are adopted for ash dyke to prevent any breaching.
(xx)	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 wastes as per Hazardous Wastes (Management, Handling and Transboundary) Rules, 2008 (as applicable)	Hazardous waste authorization obtained from Chhattisgarh Environment Conservation Board. Vide letter no 7089/HSMD/HO/CECB/2023, Nava Raipur Dated 09/01/2023 valid for five years. Details submitted to MoEF & CC Raipur, Dated- 03.04.2023
(xxi)	All the internal roads shall be made pucca before	All roads are made pucca. Good







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	commissioning of the power plant. Good housekeeping practices shall be adopted by the project proponent	housekeeping practices are adopted in the plant premises. Photographs submitted to MoEF & CC Raipur, Dated- 03.04.2023
(xxii)	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 provided to the employee working in the area of generator halls and other high noise areas. Leq of noise levels emanating from turbines shall be limited to 75 dB(A). The noise level shall not exceed the limits 75 dB(A) during the daytime and 70 dB(A) during the nighttime 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 such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and treatment for any hearing loss including shifting to non-noisy/less noisy areas	MCCPL appointed third party NABL accredited lab for conducting noise monitoring at different location of plant. Noise Monitoring location map and report submitted to MoEF & CC Raipur, Dated- 03.04.2023 Personal Protective Equipment's e.g Ear plug/ear muffs etc are provided to all personnel working in high noise level areas. Details submitted to MoEF & CC Raipur, Dated- 03.04.2023 <ul style="list-style-type: none"><li>• We have ensured that the Leq of noise level is maintained within norms.</li><li>• Workers engaged are periodically examined medically.</li></ul>
(xxiii)	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 site for 1 x 300 megawatt units. 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	<ul style="list-style-type: none"><li>• MCCPL appointed third party NABL accredited lab for conducting air pollution, water pollution, noise pollution, fugitive dust monitoring, etc during construction and operation of plant at different location of plant.</li><li>• Regular sprinkling of water on transport roads is being done.</li><li>• First aid and sanitation arrangements are made available.</li></ul>
(xxiv)	The construction of effluent treatment plant and installation of air pollution control equipments shall be taken up simultaneously with other civil/mechanical works of 1x 300 megawatt units. The progress of the activities related to the project shall be submitted periodically to SEIAA, CG and Regional Office, Ministry of Environment and Forests, Government of India, Bhopal.	MCCPL already installed 50 m <sup>3</sup> /hr capacity of Effluent treatment plant (ETP) and air pollution control equipment also installed simultaneously.
(xxv)	Project proponent shall provide adequate number of influent and effluent quality monitoring stations/points in consultation with Chhattisgarh Environment Conservation Board. Regular	<ul style="list-style-type: none"><li>• Online effluent quality monitoring station is installed for measurement for effluent quality continuously. System is already connected to server of CECB</li></ul>



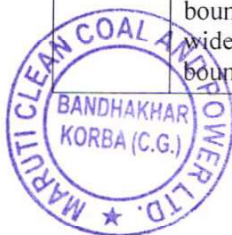




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	<p>monitoring shall be carried out for relevant parameters.</p> <p>Regular monitoring of surface and ground water quality including heavy metals shall be undertaken around ash dyke and the project area to ascertain the change in the water quality if any, due to leaching of contaminants from disposal area/project area. Result and data collected shall be analyzed to ascertain the status of water quality and findings shall be submitted.</p> <p>Continuous monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers at suitable locations at the proponent's cost in and around project area including ash dyke area in consultation with Regional Director, CGWB, Central Region, Bhopal. Project proponent shall install at least four observation wells around the fly ash disposal area</p>	<p>and CPCB as per guidelines.</p> <ul style="list-style-type: none"><li>• Analysis results are being submitted to Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Korba, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment &amp; Forests, Government of India, Bhopal.</li><li>• Noted</li></ul>
(xxvi)	<p>Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in fuel yard especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to SEIAA, CG and Regional Office, Ministry of Environment and Forests, Government of India, Bhopal</p>	<p>Adequate Safety measures are provided in the plant area to check/minimize spontaneous fires in fuel yard. Details submitted to MoEF &amp; CC Raipur, Dated- 03.04.2023</p>
(xxvii)	<p>Storage facilities for auxiliary liquid fuel such as LDO and HFO/LSHS shall be made in the plant area where risk is minimum to the storage facilities.</p> <p>Disaster Management plan shall be prepared to meet any eventuality in case of an accident taking place.</p> <p>Mock drills shall be conducted regularly and based on the same, modifications required, if any shall be incorporated in the DMP. Sulphur content in the liquid fuel will not exceed 0.5%</p>	<p>Storage facilities for auxiliary liquid fuel i.e. LDO constructed as per applicable norms in the plant area where risk is minimum to the storage facilities. Details Submitted to MoEF &amp; CC Raipur, Dated- 03.04.2023</p> <p>Disaster Management plan is prepared and approved by DIHS to meet any eventuality details submitted. Onsite emergency plan submitted to MoEF &amp; CC Raipur, Dated- 03.04.2023</p> <p>Mock drills are conducted regularly, based on finding, modifications will be done if required.</p> <p>Sulphur content in the liquid is less than 0.5%</p>
(xxviii)	<p>At least 50 meter wide green belt of broad leaf local species shall be developed all along the boundary of the plant premises. At least 50 meter wide green belt shall be developed all along the boundary of the ash pond area. As far as possible</p>	<ul style="list-style-type: none"><li>• Green belt has been developed all along the boundary of the ash pond area.</li><li>• Local broad leaf species are selected for plantation purposes</li><li>• Plant has already achieved the target</li></ul>







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	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 broad leaf species should be maintained. At least 151 acres (about 35% of the total plant area) shall be used for green belt development.	for the development of green belt /plantation to covers 35 % area of the plant premises. A thick green belt has been developed along the peripheral boundary of the plant. Regular plantation is carried out as per the guidelines inside the plant with native plant species.										
(xxix)	<p>Project proponent shall provide garland drains with appropriate check dams all along the fuel dust/ash storage areas etc to avoid any possibility of erosion (wearing away) during rain.</p> <p>Garland drain (size, gradient and length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the project site.</p> <p>Sump capacity shall also provide adequate retention period to allow proper settling of silt material.</p> <p>Sedimentation pits shall be constructed at the corners of the garland drains.</p> <p>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</p>	<ul style="list-style-type: none"><li>• MCCPL provided required garland drains with check dam along the dust/ash storage area and there will not be any erosion during rainy season.</li><li>• Garland drain provided dimension details.</li></ul> <table><tr><th>Location</th><th>Dimension</th></tr><tr><td>Kachha Drain (Around Ash dyke )</td><td>length -900M Width - 2M Depth 1.5 M</td></tr><tr><td>RCC Drain (Back side of store to near Switchyard area)</td><td>Length - 440 M Width 1.2 M Depth- 1 to 1.5 M</td></tr><tr><td>RCC Drain (Silo To near Switchyard turning area)</td><td>Length - 270M Width- 0.9 M Depth - 0.9 to1.2 M</td></tr><tr><td>RCC Settling Pit</td><td>Size (12x6x4)CUM Size (9x9x3) CUM</td></tr></table> <p>We have provided sump capacity of 52537 m<sup>3</sup> with proper settling provision. Details submitted to MoEF &amp; CC Raipur, Dated- 03.04.2023</p> <p>Sedimentation pits also constructed each corner of garland drains. Details submitted to MoEF &amp; CC Raipur, Dated- 03.04.2023</p> <ul style="list-style-type: none"><li>• MCCPL provided collection and treatment facility for storm water and separate surface run-off de-silted through check dams and drainage.</li></ul>	Location	Dimension	Kachha Drain (Around Ash dyke )	length -900M Width - 2M Depth 1.5 M	RCC Drain (Back side of store to near Switchyard area)	Length - 440 M Width 1.2 M Depth- 1 to 1.5 M	RCC Drain (Silo To near Switchyard turning area)	Length - 270M Width- 0.9 M Depth - 0.9 to1.2 M	RCC Settling Pit	Size (12x6x4)CUM Size (9x9x3) CUM
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RCC Settling Pit	Size (12x6x4)CUM Size (9x9x3) CUM											
(xxx)	Project proponent shall adopt rainwater harvesting technique in the project area and residential area for recharge of ground water. The rain water harvesting technique shall be incorporated right from the design stage of all structures.	MCCPL constructed roof top rain water harvesting pit all the buildings, residential areas for ground water recharge. Details submitted to MoEF & CC Raipur, Dated- 03.04.2023										



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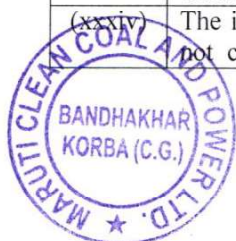




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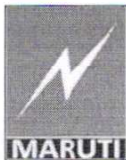
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	<p>Project proponent shall develop rainwater harvesting structures to harvest the rain water for utilization in the lean season as well as to recharge the ground water table.</p> <p>A detailed scheme for rainwater harvesting to recharge the ground 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 SEIAA, CG and Regional Office, Ministry of Environment and Forests, Government of India, Bhopal.</p> <p>No Ground water shall be used for any purpose.</p>	<p>We have developed rain water harvesting structure/reservoir for utilization of lean season.</p> <p>Rainwater harvesting to recharge the ground water aquifer details submitted to SEIAA, CG and Regional Office, Ministry of Environment and Forests, Government of India, Bhopal.</p> <p>Details submitted to MoEF &amp; CC Raipur, Dated- 03.04.2023</p> <ul style="list-style-type: none"><li>• Ground water not used.</li></ul>
(xxxi)	<p>Project proponent shall establish an environmental management cell to carryout function relating to environment management under the supervision of senior executive who will directly report to the head of organization.</p> <p>A full-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</p>	<p>A separate Environment Management Cell with qualified personnel under the supervision of the Plant Head is set up to monitor compliance of the conditions stipulated. Details submitted to MoEF &amp; CC Raipur, Dated- 03.04.2023</p> <p>A full-fledged laboratory with qualified technical/scientific staffs to monitor the influent, effluent, ground water, surface water, soil, stack emission and ambient air quality etc is provided.</p>
(xxxii)	<p>Adequate funds shall be allocated for undertaking CSR activities (community welfare environmental developmental development activities apart from committed plantation) and in any case it shall not be less than Rs. 1.0 crores per year with 10% annual increase in subsequent years. Details of activities shall also be submitted to SEIAA, Chhattisgarh and Regional Office, Ministry of Environment and Forests, Government of India, Bhopal. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year wise expenditure should be reported to the SEIAA, Chhattisgarh and Regional Office, Ministry of Environment and Forests, Government of India, Bhopal.</p>	<p>Separate fund is being allocated for implementation of the Environmental Protection measures.</p> <p>The CSR initiatives initiated includes establishing /strengthening of schools roads, drainage and sanitation, community halls, drinking water into the villages and skill development of the local communities around of project site villages. CSR activities details submitted to MoEF &amp; CC Raipur, Dated- 03.04.2023</p>
(xxxiii)	<p>Project proponent shall also ensure the availability of adequate pastureland for cattle feed after acquisition of land for power plant. Project proponent shall also facilitate Gram Panchayats for development of alternative posture land for cattle feed in the villages as per demand of concerning Gram Panchayats.</p>	<p>There is no R &amp; R activities involved this project.</p>
(xxxiv)	<p>The issuance of this environmental clearance does not convey any property rights in either real or</p>	<p>Agreed to comply.</p>



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	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	
(xxxv)	The PAP shall be rehabilitated/compensation in accordance with the norms of the State Government. Details of R&R plan with compensation package shall be submitted to SEIAA, Chhattisgarh and Regional Office, Ministry of Environment and Forests, Government of India, Bhopal.	R & R plan is not applicable for this plant, since no person would be displaced
(xxxvi)	To ensure the generation of employment in the local areas, recruitment shall be done by inviting applications first from the local residents of the Chhattisgarh State. In case of non-availability of suitable candidate for certain post in the first attempt, the project proponent may call the applications as second call, not only from local residents of the Chhattisgarh State but also from other State	Adequate local employment has been ensured. Details submitted to MoEF & CC Raipur, Dated- 03.04.2023
(xxxvii)	Project proponent should examine the feasibility of laying railway siding for the transport of raw coal. Hence, rail transport should be attempted as per priority road transport should be carried out only if the rail transport is totally unavoidable. In case of road transport, transportation should be in covered trucks	<ul style="list-style-type: none"><li>• Prefeasibility report for laying railway line has been approved by M/s. SECR.</li><li>• We are also working on feasibility of Laying of Pipe conveyor from Mines to our Plant.</li><li>• All trucks wherever used for coal transport are being adequately covered during coal transportation.</li></ul>
(xxxviii)	Provision shall be made for 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 structure to be removed after the completion of the project.	Complied.
(xxxix)	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the factories Act and records shall be maintained properly for at least 30-40 years	Occupational health surveillance is undertaken periodically and records maintained as per Factories Act. Enclosed report as Details submitted to MoEF & CC Raipur, Dated- 03.04.2023
(xl)	Project proponent shall also comply with all the environmental protection measures and safe guards recommended in the EIA/EMP report.	Point wise EIA/EMP conditions already complied.
(xli)	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	Complied.



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	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 be seen at website of the Ministry of Environment and Forests at <a href="http://www.envfor.nic.in">www.envfor.nic.in</a> and website of SEIAA, Chhattisgarh at <a href="http://www.seiaacg.org">www.seiaacg.org</a>	
(xlii)	Half yearly report on the status of implementation of the stipulated conditions, monitoring data along with statistical interpretation and environment safeguards shall be submitted to the Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Korba, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment and Forests, Government of India, Bhopal	Half yearly compliance report of Air, Water, Noise, fugitive emission, etc submitted regularly to Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Korba, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment and Forests, Government of India, Bhopal.
(xliii)	Regional Office of 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 time to time shall be forwarded to the Regional Office for their use during monitoring	We have submitted completed set of Environment Impact Assessment Report and Environment Management Plan along with the additional information to Regional Office of Ministry of Environment and Forests, at Bhopal on time.
(xliv)	Full Cooperation shall be extended to the scientists/Officers from SEIAA, Chhattisgarh, Ministry of Environment and Forests, Government of India/Regional Office, Ministry of Environment and Forests, Government of India, Bhopal/the CPCB/ the Chhattisgarh Environment Conservation Board who would be monitoring the compliance of environment status	Agreed to comply
(xlv)	The environment clearance accorded shall be valid for a period of 5 years to start of production operations by the power plant	Agreed to comply
(xlvi)	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 SEIAA, 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	Agreed to comply
(xlvii)	The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the State Government	Agreed to comply



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(xlviii)	The project authorities shall inform the Regional Office, Ministry of Environment and Forests, Government of India, Bhopal and SEIAA, Chhattisgarh date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work	Agreed to comply
(xlix)	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 and rules there under, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and its amendments, the Public Liability Insurance Act, 1991 and its amendments	Agreed to comply
(l)	Any appeal against this environmental clearance shall be with the National Environment Appellate Authority, if preferred, within 30 days as prescribed under section 11 of the National Environment Appellate Act, 1997.	Agreed to comply
(li)	SEIAA, Chhattisgarh reserves the right to amend/cancel any of the conditions and add new conditions and further stringent the emission/effluent limit as and when deemed necessary in the interest of environmental protection, change in the project profile or non-satisfactory implementation of the stipulated conditions etc.	Agreed to comply

Date: 12.06.2023

Authorized Signatory

