

**State Level Environment Impact Assessment Authority, Jharkhand.**

Nursery Complex, Near Dhurwa Bus Stand, Dhurwa, Ranchi. Jharkhand-834 004.

E-mail: [msseiaa.jhk@gmail.com](mailto:msseiaa.jhk@gmail.com)/[chr-seiaajhr@gov.in](mailto:chr-seiaajhr@gov.in)

website: [www.jseiaa.org](http://www.jseiaa.org)

Letter No.-EC / SEIAA / 2017-18 / 2063 / 2017 / 335

Ranchi, Date: 02.08.19

To: **Mr. Manoj Kumar Agarwal**  
(Sr. Vice President)  
Nuvoco Vistas Corporation Ltd.  
Jojobera Cement Plant  
P.O. – Rahargora, Jamshedpur,  
Jharkhand – 831 016.

Sub.: Environmental Clearance for the project “Proposed 1x 30 MW Coal based Captive Power Plant within Existing 4.6 MTPA Cement Grinding Unit of M/s Nuvoco Vistas Corporation Ltd at Plot no. 5758, 5759 (P) and 5762 (P) at Vill. : Jojobera, P.O. :Rahargora, Dist. : E. Singhbhum”, Jharkhand. (Proposal No. : SIA/JH/THE/20890/2017).

Ref: Your application no. JJR/SVP/34/07/19 dated 12.04.2019.

Sir,

It is in reference to the project “Proposed 1x 30 MW Coal based Captive Power Plant within Existing 4.6 MTPA Cement Grinding Unit of M/s Nuvoco Vistas Corporation Ltd at Plot no. 5758, 5759 (P) and 5762 (P) at Vill. : Jojobera, P.O. :Rahargora, Dist. : E. Singhbhum”, Jharkhand submitted by you for seeking prior Environmental Clearances (EC).

M/s Nuvoco Vistas Corporation Ltd proposes for installing 1x30 MW Coal based Captive Power Plant within existing 4.6 MTPA Cement Grinding Unit at Vill.: Jojobera, P.O.: Rhargora, Dist.: East Singhbhum. Proposed CPP will be established over an area of 7.41 acres which is within the existing total plant area of 122.82 acres & no extra land is required.

As per EIA notification, 2006, this project falls under S. No. 1(d) for CPP under Thermal Power Plant as Category B. Accordingly proposal for ToR for undertaking EIA / EMP study for proposed project was applied to SEIAA, Jharkhand. The proposal was presented before the 51<sup>st</sup> SEAC meeting held on 17<sup>th</sup> and 18<sup>th</sup> January, 2018 and recommended to SEIAA for grant of ToR. The ToR was granted by SEIAA vide letter no. EC/SEIAA/2017-18/2063/2017/70, dated 04.04.2018 and the final EIA & EMP was submitted by PP to SEIAA on 22.04.19. The proposal was forwarded to SEAC by SEIAA on 22.04.2019.

**Salient Feature :**

1.	Name of the Project	Proposed 1x30 MW Coal based Captive Power Plant within existing 4.6 MTPA Cement Grinding Unit at Village- Jojobera, East Singhbhum.
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2.	Name of the company	M/s Nuvoco Vistas Corp. Ltd
3.	Area of plant	7.41 Acres Within existing premises of 122.82 Acres
4.	Location	Plot no. 5758, 5759 (P) and 5762 (P), Vill. : Jojobera, Dist. East Singhbhum  <b>Latitude</b> 22° 44'59.47"N to 22° 45'38.15"N and <b>Longitude</b> 86° 14'13.85" E to 86° 15'01.21" E
5.	Proposed capacity	1x30 MW Captive Thermal Power Plant
6.	Cost of project	163.28 Crore
7.	Fuel requirement	Indian Coal – 146578 TPA (100% Indian) or Imported Coal – 79893 TPA (100% Imported) or Fuel mix of above two.
8.	Man Power requirement	Proposed manpower for CPP – 43 and contractual workers – 24
9.	Water requirement	606 m <sup>3</sup> /day for CPP Source – JUSCO (within the existing agreement)
10.	Power requirement	2000 KW – start-up power. Power source from JUSCO.
11.	Nearest Railway Station / Airport along with distance in KMS	Tatanagar Railway Station – 4.0 KM Sonari Airport, Jamshedpur – 12.5 KM Ranchi Airport – 112 KM
12.	Nearest Town, City, District Headquarters along with distance in kms.	Jamshedpur (approx. 9 km in NW direction ).

#### Land use breakup

	Particulars	Area in Acres	Total area in Acres
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Sl. No.				
		Existing	Proposed	
1.	Clinker Grinding Unit	64.36		64.36
2.	CPP	-	7.41	7.41
3.	Greenbelt / Plantation	40.53		40.53
4.	Railway Siding	10.52		10.52
<b>Total</b>				<b>122.82</b>

DCF & Field Director, Elephant Project, Jamshedpur vide letter no. 84, dated - 01.02.18 certified that the distance of notified forest is 10,020 m from battery point of proposed project site & not within 10 km from National Park, Bio-Diversity & Wildlife Sanctuary and proposed project is not situated in any Eco Sensitive Zone. The CO, Jamshedpur vide letter no. 980, dated - 12.04.19 has mentioned the class of land is not recorded as Jangal Jhari in R.S Khatiyon.

Environment Clearance for expansion of the existing cement grinding unit from 4.6 MTPA to 6.6 MTPA has already been granted by SEIAA, Jharkhand vide letter no. EC/SEIAA/2016-17/2001/2017/99, dated 08.05.2018.

The process of project is proposed as CFBC based coal fired thermal power plant. The configuration of proposed plant is as below:

<b>A Steam Generator</b>			
	<b>a.</b>	No. and ratings of Boiler	1 no. with Maximum Continuous rating 130 tph & ~540°C
	<b>b.</b>	Type of Boiler	CFBC
	<b>c.</b>	No. of Boiler fans	2 x 60 % duty for ID & SA & SA Fan
	<b>d.</b>	Type of Atmospheric pollution control system	Electro static precipitators with outlet dust concentration less than 30 mg / Nm <sup>3</sup> & SOx as 100mg/Nm <sup>3</sup> by considering FGD
<b>B Steam Turbine Generator</b>			
	<b>a</b>	No. and ratings of turbine	1 no. for each unit of inlet parameters, 107 kg & 535°C
	<b>b</b>	Type	Extraction cum condensing type
	<b>c</b>	Total flow	130 TPH
	<b>d</b>	Capacity	1 x 30 MW MCR

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e	No of controlled extraction	2 Nos HP, 1 No MP, 1 No LP
f	Type of exhaust order of cooling	Air cooled condenser

Raw material requirement of the project, their source and transportation is as below:

Raw Materials	Source	Transportation	Requirement MTPA
Coal	Open Market	Rail / Road	Indian Coal – 146578 TPA (100% Indian) or Imported Coal – 79893 TPA (100% Imported) or Fuel mix of above two
LDO/ HSD	IOCL/HPCL etc. Local depots	Road	80 KL/Yr

Management Plan for Solid Waste generated from the proposed project will be as given below:

Item	Quantity Per Annum	Unit	Mode of Transport	Mode of Disposal
Fly ash	52768	Ton	Pipeline	Use in existing cement section
Bottom ash	13192	Ton	Covered Trucks/Closed bulkers	Brick/Block Manufacturer or used inhouse
Used Oil	1.6	KL	Covered Trucks In drum	Registered recyclers (as per Hazardous and other waste and Management Rules 2016)

Baseline Environmental Studies were conducted during winter season i.e. from December 2017 to February 2018. AAQ monitoring at 8 locations indicates that the concentration of PM<sub>10</sub> ranges from 61.56 µg/m<sup>3</sup> to 83.50 µg/m<sup>3</sup> and average PM<sub>2.5</sub> data ranges from 30.16 µg/m<sup>3</sup> to 44.15 µg/m<sup>3</sup>. Also average SO<sub>2</sub> is in ranges from 4.29 µg/m<sup>3</sup> to 15.31 µg/m<sup>3</sup>, average NO<sub>2</sub> data ranges from 9.98 µg/m<sup>3</sup> to 19.38 µg/m<sup>3</sup>, CO data ranges from 0.32 mg/m<sup>3</sup> to 0.65mg/m<sup>3</sup>. Concentrations of the AAQ parameters were within NAAQS limits. The result of the modeling study indicates that the maximum increase of GLC for the proposed project is 4.37 µg/m<sup>3</sup> with respect to the PM<sub>10</sub>, 2.73 µg/m<sup>3</sup> with respect to the SO<sub>2</sub> & 3.31 µg/m<sup>3</sup> with respect to the NO<sub>x</sub>.

Ground Water Quality has been monitored in 8 locations in the study area and analysed. All parameters also found within the limits of IS:10500. Surface water Quality has been monitored in 4 locations in the study area and analysed. Parameters values ranged from - pH 6.68 to 7.26; DO 5.1 to 5.4 mg/l and BOD: 2.4 to 2.8 mg/l. All parameters also found within the limits of "Class – C" surface water.

Noise levels are in the range of 38.5 to 53.0 dB(A) for daytime and 30.9 to 42.8 dB(A) for night time.

There is no human populations residing in the core zone of the project. No R&R is involved. It has been envisaged that no families are to be rehabilitated for the project.

Public hearing for the project was conducted on 18.12.2018 by JSPCB at venue Tube Makers Club, Namdih Road, Gayatri Nagar, Nildih, Jamshedpur, District- East Singhbhum in the chairmanship of Additional District Magistrate (Law and Order). The issues raised by the public and response of the project proponent with action plan has been provided.

Budget for CER has been revised to Rs. 147.95 Lakhs (as per MOEF & CC, O.M. dated 01.05.2019) for implementing Enterprise Social Commitment.

**Proposed CER/ESC Activities (based on public hearing issues and need based):**

Sl. No.	Proposed Programme	Amount (Rs in Lakh)
1	Educational Promotion Programme	35.75
2	Health And Family Welfare Programme	22.00
3	Sustainable Livelihood Training/Skill Development	32.70
4	Infrastructure Development	43.50
5	Need Based Assessment -- Community Green Belt Development	14.00
	<b>Total</b>	<b>147.95</b>

Proposed ESC activities will be implemented within a span of 5 years along with implementation of the plant.

The Capital Cost of the Project is Rs. 163.8 Crores and the capital cost for environmental protection measures is proposed as Rs. 30.95 Crores. The annual recurring cost toward the environmental protection measures is proposed as Rs. 6.10 Crores. The details of capital cost for environmental protection measures and annual recurring cost towards the environmental protection measures is as follows:

Sl.	Particulars	Time frame (implementation)	Capital cost (Rs. Lacs)	Recurring cost (Rs. Lacs/annum)
1	Air pollution control • Covered Shed, Sprinklers • ESP, BAG Fiter • Fugitive emission control • FGD System etc.	12-18 month after CTE	1950	210
2	Water pollution control • Waste water management • Rain water harvesting • Bunding along yards / storage • Conservation measures etc.	12-18 month after CTE	560	115

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3	Noise pollution control • Providing isolation to high noise equipments • Noise barriers as required	12-18 month after CTE	90	30
4	Solid waste management • Boundry of area, water sprinklers • Proper storage and handling system of ash & other waste	2 – 3 month after CTO	125	40
5	Environment monitoring • In house laboratory and • Capacity building for monitoring & analysis	1 – 2 month After CTO	110	35
6	Occupational health	1 year after CTO	140	70
7	Green belt & plantation	1 - 5 years after CTE	120	110
<b>Total</b>			3095	610

Note - Implementation of above EMP will be carried out along with installation of plant and completed prior to commissioning except for the Occupational health & Green Belt.

There is no court case or litigation relating to environment against the unit.

DCF & Field Director, Elephant Project, Jamshedpur vide letter no. 84, dated - 01.02.18 certified that the distance of notified forest is 10,020 m from battery point of proposed project site & not within 10 km from National Park, Bio-Diversity & Wildlife Sanctuary and proposed project is not situated in any Eco Sensitive Zone. The CO, Jamshedpur vide letter no. 980, dated - 12.04.19 has mentioned the class of land is not recorded as Jangal Jhari in R.S Khatiyani.

*The proposal was presented in SEAC on 27-30.05.19 in which requisite documents were sought as under -*

- (i) *Satisfactory compliance of MoEF site visit report to be provided, authenticated by date & further commitment as a number of quarries are partially complied – (VI)*
- (ii) *Office order of Environment Management Cell not be provided as per condition- (VII)*
- (iii) *Public hearing – the replies to point (2) – Educations – is not clear, the answer should be specific with implementable action plan and time line & realist budget estimate be submitted.*
- (iv) *The replies to social program in 4 needs more clarity.*
- (v) *CO report- Thick population resides within 150 m. PP should submit the data on number of families, exact population & their socio economic status be furnished along with impact of expansion project.*
- (vi) *ToR point - (15) – Topography mentioned as gently undulating, whereas DEM quotes – elevation ranges from 165 – 215 m. AMSL.- Please clarify.*
- (vii) *ToR point - (17) – A certificate may be necessary from the competent authority that the site is not in any mineralized zone.*
- (viii) *A copy of MOU of brick manufacturer be submitted.*
- (ix) *Spillage of Ash has been reported in public hearing comment of villagers, please clarify the zero discharge system. A written commitment from PP is needed.*

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- (x) ToR point – 24 – The document provided is of March 23<sup>rd</sup>, 2002. An up to date certificate be submitted specifying the expansion requirement.
- (xi) ToR point – 32 – No data provided on tribal population.
- (xii) ToR point – 51 – Correct selection of plant species be provided & green belt be developed in association with Forest Deptt., as

The documents related to the above mentioned discrepancies has been submitted by the PP on 18.06.2019.

The proposal was appraised by State Level Expert Appraisal Committee (SEAC) and recommended for grant of Environmental Clearance in its meeting held on 10<sup>th</sup>, 11<sup>th</sup> & 12<sup>th</sup> July, 2019.

State Level Environment Impact Assessment Authority (SEIAA), Jharkhand in its meeting held on 31<sup>st</sup> July and 01<sup>st</sup> August, 2019 discussed the project proposal along with recommendations made by SEAC and decided to grant EC to the project.

Following the decision of SEIAA, as mentioned above, Environmental Clearance is hereby issued to the **“Proposed 1x 30 MW Coal based Captive Power Plant within Existing 4.6 MTPA Cement Grinding Unit of M/s Nuvoco Vistas Corporation Ltd at Plot no. 5758, 5759 (P) and 5762 (P) at Vill. : Jojobera, P.O. :Rahargora, Dist. : E. Singhbhum”**, Jharkhand alongwith the following conditions as recommended by SEAC.

#### **I. Specific Conditions :**

1. This Environmental Clearance is valid subject to the following condition below –  
That this project has-
  - a. Obtained all legal rights to operate at concerned place.
  - b. Complied with all existing concerned laws of the land and
  - c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.

#### **II. Statutory Compliance :**

1. Emission Standards for Thermal Power Plants as per Ministry's Notification S.O. 3305(E) dated 07.12.2015, G.S.R.593(E) dated 28.06.2018 and as amended from time to time shall be complied.
2. MoEF & CC Notification G.S.R. 02(E) dated 02.01.2014 as amended time to time regarding use of raw or blended or beneficiated/washed coal with ash content not exceeding 34% shall be complied with, as applicable.
3. MoEF & CC Notification on Fly Ash Utilization S.O. 763(E) dated 14.09.1999, S.O. 979(E) dated 27.08.2003, S.O. 2804(E) dated 03.11.2009, S.O. 254(E) dated 25.01.2016 as amended from time to time shall be complied.
4. Thermal Power Plants other than the power plants located on coast and using sea water for cooling purposes, shall achieve specific water consumption of 3.5 m<sup>3</sup>/MWh and Zero effluent discharge.
5. The recommendation from Standing Committee of NBWL under the Wildlife (Protection) Act, 1972 should be obtained, if applicable.
6. No Objection Certificate from Ministry of Civil Aviation be obtained for installation of requisite chimney height and its siting criteria for height clearance.
7. Groundwater shall not be drawn during construction of the project. In case, groundwater is drawn during construction, necessary permission be obtained from CGWA.

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8. No mining/activity shall be undertake in the forest land or deemed forest without obtaining requisite prior forestry clearance.
9. This Environmental Clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT, MoEF & CC and any other Court of Law, if any, as may be applicable to this project.
10. Environmental clearance is subject to obtaining prior clearance from forestry and Wildlife angle including clearance from standing committee of NBWL, as may be applicable to this project (in case any fauna occurs / is found in the Project area or if the area involves forest land or Wildlife habitat i.e. core zone of elephant/tiger reserve etc. and or located with in 10 km. of protected area).
11. The project proponent may apply simultaneously for forest and NBWL clearance, in order to complete the formalities without undue delay, which till process on their respective merits, no rights will vest in or accrue to them unless all clearance are obtained.

### III. Ash content/mode of transportation of Coal :

1. EC is given on the basis of assumption of 35 % of ash content and transportation by rail and road. Any increase of % ash content by more than above percent, and/or any change in transportation mode of increase in the transport distance (except for rail) require application for modifications of EC conditions after conducting the 'incremental impact assessment' and proposal for mitigation measures.

### IV. Air quality monitoring and Management :

1. Flue Gas Desulphurization System shall be installed based on Lime/Ammonia dosing to capture Sulphur in the flue gases to meet the SO<sub>2</sub> emissions standard of 100 mg/Nm<sup>3</sup>.
2. Selective Catalytic Reduction (SCR) system or the Selective Non-Catalytic Reduction (SVCR) system or Low NOX Burners with Over Fire Air (OFA) system shall be installed to achieve NO<sub>x</sub> emission standard of 100 mg/Mm<sup>3</sup>.
3. High efficiency Electrostatic Precipitators (ESPs) shall be installed in each unit to ensure that particulate matter (PM) emission to meet the stipulated standards of 30 mg/Nm<sup>3</sup>.
4. Stacks of prescribed height min. 90 m shall be provided with continuous online monitoring instruments for SO<sub>x</sub>, NO<sub>x</sub> and Particulate Matter as per extant rules.
5. Exit velocity of flue gases shall not be less than 15-18 m/s. Mercury emissions from stack shall also be monitored periodically.
6. Continuous Ambient Air Quality monitoring system shall be set up to monitor common/criteria pollutants from the flue gases such as PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub> within the plant area at least at one location. The monitoring of other locations (at least three locations outside the plant area covering upwind and downwind directions at an angle of 120° each) shall be carried out manually.
7. Adequate dust extraction/suppression system shall be installed in coal handling, ash handling areas and material transfer points to control fugitive emissions.
8. Appropriate Air Pollution Control measures (DEs/DSs) be provided at all the dust generating sources including sufficient water sprinkling arrangements at various locations viz., roads, excavation sites, crusher plants, transfer points, loading and unloading areas, etc.



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#### **IV. Noise pollution and its control measures :**

1. The Ambient Noise levels shall meet the standards prescribed as per the Noise Pollution (Regulation and Control) Rules, 2000.
2. Persons exposed to high noise generating equipment shall use Personal Protective Equipment (PPE) like earplugs/ear muffs, etc.
3. Periodical medical examination on hearing loss shall be carried out for all the workers and maintain audiometric record and for treatment of any hearing loss including rotating to non-noisy/less noisy areas.

#### **VI. Human Health Environment:**

1. Bi-annual Health check-up of all the workers is to be conducted. The study shall take into account of chronic exposure to noise which may lead to adverse effects like increase in heart rate and blood pressure, hypertension and peripheral vasoconstriction and thus increased peripheral vascular resistance. Similarly, the study shall also assess the health impact due to air polluting agents.
2. Baseline health status within study area shall be assessed and report be prepared. Mitigation measures should be taken to address the endemic diseases.
3. Impact of operation of power plant on agricultural crops, large water bodies (as applicable) once in two years by engaging an institute of repute. The study shall also include impact due to heavy metals associated with emission from power plant.
4. Sewage Treatment Plant shall be provided for domestic wastewater.

#### **VII. Water quality monitoring and Management:**

1. Induced/Natural draft closed cycle wet cooling system including cooling towers shall be set up with minimum Cycles of Concentration (COC) of 5.0 or above for power plants using fresh water to achieve specific water consumption of 3.5 m<sup>3</sup>/MWhr.
2. Records pertaining to measurements of daily water withdrawal and / or intake from source shall be maintained.
3. Rainwater harvesting in and around the plant area be taken up to reduce drawl of fresh water. If possible, recharge of groundwater to be undertaken to improve the ground water table in the area.
4. Regular (at least once in six months) monitoring of groundwater quality in and around the ash pond area including presence of heavy metals (Hg, Cr, As, Pb, etc.) shall be carried out as per CPCB guidelines. Surface water quality monitoring shall be undertaken for major surface water bodies as per the EMP. The data so obtained should be compared with the baseline data so as to ensure that the groundwater and surface water quality is not adversely impacted due to the project & its activities.
5. The treated effluents emanating from the different processes such as DM plant, boiler blow down, sewage, etc. conforming to the prescribed standards shall be re-circulated and reused. Sludge/rejects will be disposed in accordance with the Hazardous Waste Management Rules.
6. As proposed only Air Cooled condenser shall be used to conserve water requirement of the unit.
7. Wastewater generation from various sources (viz. cooling tower blow down, boiler blow down, wastewater from ash handling, etc.) shall be treated to meet the standards of pH:6.5-8.5; Total



Suspended Solids: 100mg/l; Oil & Grease: 20mg/l; Copper: 1 mg/l; Iron: 1 mg/l; Free Chlorine: 0.5; Zinc: 1.0 mg/l; Total Chromium: 0.2 mg/l; Phosphate: 5.0 mg/l;

8. Sewage generation will be treated by setting up Sewage Treatment plant to maintain the treated sewage characteristics of pH: 6.5-9.0; Bio-Chemical Oxygen Demand (BOD): 30 mg/l; Total Suspended Solids: 100 mg/l; Fecal Coliforms (Most Probable Number): <1000 per 100 ml.

#### **VIII. Risk Mitigation and Disaster Management:**

1. Adequate safety measures and environmental safeguards shall be provided in the plant area to control spontaneous fires in coal yard, especially during dry and humid season.
2. Storage facilities for auxiliary liquid fuel such as LDO and HFO/LSHS shall be made as per the extant rules in the plant area in accordance with the directives of Petroleum & Explosives Safety Organization (PESO). Sulphur Content in the liquid fuel should not exceed 0.5%.
3. Ergonomic working conditions with First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
4. Safety management plan based on Risk Assessment shall be prepared to limit the risk exposure to the workers within the plant boundary.
5. Regular mock drills for on-site emergency management plan and Integrated Emergency Response System shall be developed for all kind of possible disaster situations.

#### **IX. Green belt and Biodiversity conservation:**

1. Green belt shall be developed in an area of 33% of the total project with indigenous native tree species in accordance with CPCB guidelines. The green belt shall inter-alia cover an entire periphery of the plant.
2. *In-situ/ex-situ* Conservation Plan for the conservation of flora and fauna should be prepared and implemented.

#### **X. Waste Management:**

1. Solid waste management should be planned in accordance with extant Solid Waste Management Rules, 2016.
2. Toxicity Characteristic Leachate Procedure (TCLP) test shall be conducted for any substance, potential of leaching heavy metals into the surrounding areas as well as into the groundwater.
3. As proposed all ash (fly ash & Bottom ash) shall be collected in dry form and no Ash Pond shall be constructed.
4. Fly ash shall be collected in dry form and ash generated shall be used 100% in-house for cement manufacturing. Fly ash utilization details shall be submitted to concerned Regional Office along with the six-monthly compliance reports and utilization data shall be published on company's website.

#### **XI. Monitoring of compliance:**

1. Environmental Audit of the project be taken up by the third party for preparation of Environmental Statement as per Form-V & Conditions stipulated in the EC and report be submitted to the Ministry.
2. Resettlement & Rehabilitation Plan as per the extant rules of Govt. of India and respective State Govt. shall be followed, if applicable.

3. Energy Conservation Plan to be implemented as envisaged in the EIA / EMP report. Renewable Energy Purchase Obligation as set by MoP/State Government shall be met either by establishing renewable energy power plant (such as solar, wind, etc.) or by purchasing Renewable Energy Certificates.
4. Monitoring of Carbon Emissions from the proposed power project shall be carried out annually from a reputed institute and report be submitted to the Ministry's Regional Office.
5. Energy and Water Audit shall be conducted at least once in two years and recommendations arising out of the Report should be followed. A report in this regard shall be submitted to Ministry's Regional Office.
6. Environment Cell (EC) shall be constituted by taking members from different divisions, headed by qualified person on the subject, who shall be reporting directly to the Head of the Project.
7. **It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned SEIAA, Regional Office of MoEF & CC at Ranchi, Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi, and Central Pollution Control Board (CPCB).**
8. **Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.**
9. **The SEIAA, Jharkhand or any other competent Authority may alter modify the above conditions or stipulate any further condition in the interest of Environment Protection.**
10. The project proponent shall (Post-EC Monitoring):
  - i. Send a copy of environmental clearance letter to the heads of Local Bodies Panchayat, Municipal bodies and relevant offices of the Government.
  - ii. Upload the clearance letter on the web site of the company as a part of information to the general public.
  - iii. 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, Forest and Climate Change (MoEF & CC) at <http://parivesh.nic.in>.
  - iv. Upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically.
  - v. Monitor the criteria pollutants level namely; PM (PM<sub>10</sub> & PM<sub>2.5</sub> in case of ambient AAQ), SO<sub>2</sub>, NO<sub>x</sub> (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.
  - vi. 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 Regional Officer of MoEF & CC, the respective Zonal Office of CPCB and the SPCB.
  - vii. 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.

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- viii. Inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project and the date of commencement of the land development work.

## **XII. Corporate Environmental Responsibility (CER) activities:**

1. CER activities will be carried out as per OM No. 22-65/2017-IA.II dated 01.05.2018 or as proposed by the PP in reference to Public Hearing or as earmarked in the EIA/EMP report along with the detailed scheduled of implementation with appropriate budgeting.

## **XIII. Effluent Release:**

1. Zero Liquid Discharge (ZLD) shall be strictly followed.

## **XIV. Others:**

1. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
2. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
3. In view of MoEF & CC O.M. No.- 22-27/2015-IA-III, dated- 12.04.2016 The Environmental Clearance accorded shall be valid for a period of Seven (07) years. The PP shall not increase production rate and make modifications in process during the validity of Environmental Clearance.

Sd/-  
Member Secretary  
State Level Environment Impact  
Assessment Authority, Jharkhand.

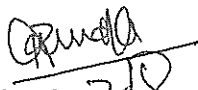
Memo No.-EC/SEIAA/2017-18 /2063/ 2017/ 335

Dated: 02.08.2019

Copy to:

1. Additional Chief Secretary, Department of Forests, Environment & Climate Change, Govt. of Jharkhand.
2. Deputy Commissioner, District- Jamshedpur, Jharkhand.
3. Divisional Forest Officer, Dalma Elephant Project, Jamshedpur Jharkhand.
4. Director IA Division, Monitoring Cell, MoEF and Climate Change, Indira Paryavaran Bhavan, Jorbag Road, Aliganj, New Delhi – 110003.
5. Ministry of Environment, Forest and Climate Change, Regional Office, Bunglow No. A-2, Shyamli Colony, Ranchi – 834002PCCF, Van Bhawan, Doranda, Ranchi.
6. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.

7. Member Secretary, Jharkhand State Expert Appraisal Committee, Ranchi.
8. Website.
9. Guard file.

  
Member Secretary  
State Level Environment Impact  
Assessment Authority, Jharkhand.  
