



**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY,
ODISHA**

5RF-2/1, Unit-IX, Bhubaneswar-751022, Tel: 0674-3510075, Email: seiaaodisha@gmail.com
(A statutory body constituted by Ministry of Environment, Forest & Climate Change under
Environment (Protection) Act, 1986)

File No. SIA/OR/THE/213436/2021

Dated st 01 December, 2022 ,
Bhubaneswar

To

M/s. Arcelormittal Nippon Steel India Ltd.
At-Udayabata, Post-Paradip, District-Jagatsinghpur,
Odisha, Pin-754142

Sub: Proposal for Transfer of Environmental Clearance of Extension of EC proposal of Phase-II project of M/s Essar Power (Orissa) Ltd. For 2 × 30 MW coal based captive power plant at Bijaychandrapur, Kujanga Block, Dist-Jagatsinghpur from the name M/s. Essar Power (Orissa) Ltd. to M/s. Arcelormittal Nippon Steel India Ltd -reg.

- Ref: (i) EC letter no./EC identification no. 6748/SEIAA dated 29.05.2019.
(ii) Letter no. Nil/Sairat dated 29.01.2021
(iii) Online Application no. SIA/OR/THE/213436/2021 dtd.25.08.2022

Sir,

This has reference to your online application no. SIA/OR/THE/213436/2021 dtd.25.08.2022, wherein you have requested for transfer of Environmental Clearance (EC) granted by SEIAA, Odisha vide letter no./EC identification No. 6748/SEIAA dated 29.05.2019. issued earlier in favour of M/s. Essar Power (Orissa) Ltd.

2. The application was examined in the State Environment Impact Assessment Authority (SEIAA), Odisha in its 100th meeting held on 24.11.2022 in accordance with the Para-11 of the EIA Notification, 2006 as amended from time to time and the following points are noted;

(i) As submitted by the project Authority, it is noted that EC was obtained for a period of 5 years from issue of EC letter in favour of M/s. Essar Power (Orissa) Ltd. vide the above-mentioned EC letter under reference. In the meantime, the company name has been changed from M/s. Essar Power (Orissa) Ltd. to M/s. Arcelormittal Nippon Steel India Ltd.

(ii) Now, the project Authority has applied online proposal in Parivesh Portal for Transfer of EC in favour of M/s. Arcelormittal Nippon Steel India Ltd.

(iii) Documents submitted for EC Transfer;

- Form No. 7 for transfer of Environmental Clearance,
- Letter no. nil dated 29.01.2021 of project authority

3. **Transfer of Environmental Clearance (EC) of Extension of EC proposal of Phase-II project of M/s Essar Power (Orissa) Ltd. For 2 × 30 MW coal based captive power plant at Bijaychandrapur, Kujanga Block, Dist-Jagatsinghpur issued vide SEIAA, Odisha EC letter/EC identification no./EC identification no. 6748/SEIAA**

1



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dated 29.05.2019 is allowed in favour of M/s. Arcelormittal Nippon Steel India Ltd., with the same terms conditions under which original EC was initially granted and for the same validity period 10 (ten) years subject to satisfactory compliance to all the stipulated terms and conditions and the new project authority shall submit six month compliance report on regular basis falling which the EC stands automatically revoked.

4. In case, there is a change in the scope of the project, fresh Environment Clearance shall be obtained.

Yours faithfully,

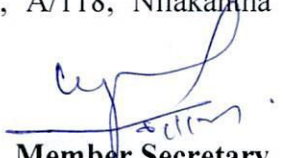

Member Secretary

Encl: Copy of the Original EC

Copy to

1. Joint Secretary (Environment), Ministry of Environment, Forests and Climate Change Govt. of India, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi-110003 for information.
2. Principal Secretary, Forests & Environment Dept., Government of Odisha for information.
3. Member Secretary, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar for information.
4. Additional Principal Conservator of Forests, Regional Office (EZ), Ministry of Environment & Forests, A-31, Chandrasekharpur, Bhubaneswar for information.
5. Chairman, Central Pollution Control Board, CBD-cum-office Complex, East Arjun Nagar, New Delhi-110032 for information.
6. Member Secretary, CGWA, 18/11, Jamnagar House, Man Singh Road, New Delhi-110011 for information.
7. Copy to the Collector/Sub Collector, Jatsinghpur for information and necessary action.
8. Chairman/Member / Member Secretary, SEIAA for information.
9. Chairman, SEAC/Member Secretary, SEAC, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar for information.
10. Guard file for record.




Member Secretary



**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY
(SEIAA), ODISHA.**

SRF-2/1, Unit - IX, Bhubaneswar - 751022
E-mail : seiaaorissa@gmail.com

Ref. No. 6348/SEIAA

Date 29.5.19.

File No. 29689/19-THE-EC-A/10-2018

To

Mr. Santosh K Thatte
Vice President
Essar Power (Orissa) Limited
Bijaychandrapur, Paradeep,
Dist-Jagatsinghpur-754142

Sub: Proposal of Extension of validity of EC of Phase-II project of M/s Essar Power (Orissa) Ltd. for 2x30 MW coal based captive power plant at Bijaychandrapur, Kujanga Block, District- Jagatsinghpur - regarding Extension of validity of Environmental Clearance.

Ref: Your online application dated 27.10.2018 for issue of EC vide File No: SIA/OR/THE/29689/2018.

Sir,

This has reference to your online application seeking extension of validity of environmental clearance issued to the project vide SEIAA letter no.638 dated 17.11.2011. I am to say that the State Environment Impact Assessment Authority, Odisha have considered the extension of validity of Environmental Clearance for the above project in its meeting held on dated 05.04.2019 and observed that the proposal was appraised by SEAC in its meeting held on 12.12.2018 on the basis of the documents enclosed with the application by the project proponent such as updated form-1.

While recommending the proposal, the SEAC has observed as follows:

1. Environmental Clearance was issued to M/s Essar Power (Orissa) Ltd. by the SEIAA, Odisha vide No. 638/SEIAA dated 17.11.2011 for 2X30 MW Coal based Captive Power Plant.
2. This environmental clearance was valid for a period of five years i.e. upto 16th November, 2016.
3. The MoEF&CC, Govt. of India vide S.O. No. 1141 (E) dated 29.04.2015 had extended the period of validity of environmental clearance from 5 years to 7 years.
4. The MoEF&CC, Govt. of India S.O. No. 1141 (E) dated 29.04.2015 and S.O. No. 2571 (E), dated 31.08.2015 stipulates that the validity period may be extended by

the Regulatory Authority concerned by a period of 3 years if an application is made to the Regulatory Authority by the applicant within the validity period together with an updated Form-I and supplementary Form - IA for construction projects or activities (item 8 of the schedule).

5. The MoEF&CC, Govt. of India OM No. F. No. 22-27/2015-1A-III, dated 12th April, 2016 stipulates that the Environmental Clearance of the projects which had not completed five (5) years on the date of publication of Notification i.e. 29.04.2015, their validity will stand automatically extended to seven (7) years. Therefore, the Environmental Clearance accorded to above project of M/s Essar Power (Orissa) Ltd. vide letter dated 17.11.2011, holds valid upto 16th November, 2018.
6. The proponent has intimated on 27.10.2018 that they have already completed 58.01% of phase-II project during the validity period of Environmental Clearance (16th November, 2018) and requested for revalidation of Environmental Clearance for another 3 years i.e. upto 16th November 2021 along with an updated Form - I.
7. The matter was examined by the SEAC, Odisha in light of MoEF&CC, Govt. of India notification dated 29th April, 2015 and 31.08.2015 as well as MoEF&CC, Govt. of India OM dated 12.04.2016 and recommended for extension of validity period of Environmental Clearance dated 17.11.2011 for further period of 3 years i.e. upto 16.11.2021.

The proposal for grant of extension of validity of EC dt. 17.11.2011 was considered by the State Environment Impact Assessment Authority in the 1st meeting held on dated 05.04.2019 wherein the Authority after detailed deliberation of the matter has decided as follows: "The EC may be extended for 3 years more upto 16.11.2021 by stipulating additional conditions as per the standard conditions for such projects prescribed by MoEF, and with further stipulation that a full scale compliance report shall be filed by the proponent in six months time i.e., by October 2019. If satisfactory compliance report on all EC conditions is not submitted by then, the EC is liable to be summarily revoked".

The State Environment Impact Assessment Authority (SEIAA) after considering the proposal and recommendations of SEAC, Odisha hereby accords extension of validity of Environmental Clearance for 3 years more i.e. upto 16.11.2021 from the original date of issue in favour of the project under the provisions of EIA Notification, 2006 and subsequent amendments thereto subject to strict compliance of all the following stipulated conditions, in supersession of the conditions stipulated vide EC letter no: 638/SEIAA dated 17.11.2011, and it is hereby laid down that this amended said EC shall be governed by the modified conditions along with additional standard conditions stipulated as follows:

Additional Standard EC Conditions for Thermal Power Sector

A. 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. Part C of Schedule-II of Municipal Solid Wastes Rules, 2016 dated 08.04.2016 as amended from time to time shall be complied for power plants based on Municipal Solid Waste.
3. 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.
4. MoEF & CC Notifications 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.
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 required to be drawn during construction, necessary prior permission be obtained from CGWA.

Ash content /mode of transportation of coal.

1. Any increase of %ash content by more than 1 percent as submitted in application, and /or any change in transportation mode or 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.

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 SO₂ emissions standard of 100 mg /Nm³.
2. Selective Catalytic Reduction (SCR) system or the Selective Non-Catalytic Reduction (SNCR) system or Low NOX Burners with Over fire Air (OFA) system shall be installed to achieve NO_x emission standard of 100 mg/Nm³.
3. Stacks of prescribed height shall be provided with continuous online monitoring instruments for Sox, NO_x and Particulate Matter as per provision of extant rules.
4. Exit velocity of flue gases shall not be less than 20-25m/s. Mercury emissions from stack shall also be monitored periodically.
5. Continuous ambient air Quality monitoring system shall be set up to monitor common /criteria pollutants from the flue gases such as PM₁₀, PM_{2.5}, SO₂, NO_x 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.
6. Adequate dust extraction /suppression system shall be installed in coal handling, ash handling areas and material transfer points to control fugitive emissions.
7. 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. .



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.

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 impacts 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 report. 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.

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 $2.5 \text{ m}^3/\text{MWhr}$. (Or) Induced /Natural draft open cycle cooling system shall be set up with minimum Cycles of Concentration (COC) of 1.5 or above for power plants using sea water.
2. In case of the water withdrawal from river, a minimum flow 15% of the average flow of 120 consecutive leanest days should be maintained for environmental flow whichever is higher, to be released during the lean season after water withdrawal for proposed power plant.
3. Records pertaining to measurements of daily water withdrawal and river flows (obtained from Irrigation Department /Water Resources Department) immediately upstream and downstream of withdrawal site shall be maintained.
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, ash pond /dyke, 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. Hot water dispensed from the condenser should be adequately cooled to ensure the temperature of the released surface water is not more than 5 degrees Celsius above the temperature of the intake water.
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:5.0mg/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 Coli forms (Most Probable Number): <1000 per 100 ml.

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.

Green belt and Biodiversity conservation:

1. *In-situ / ex-situ* Conservation Plan for the conservation and augmentation of flora and fauna within the project area and in a belt of 5 kms radius from the project site and should be prepared and implemented by the project proponent after getting the same vetted by the PCCF, Odisha.
2. Suitable screens shall be placed across the intake channel to prevent entrainment of life forms including eggs, larvae, juvenile fish. Etc, during extraction of seawater.

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. Ash pond shall be lined with impervious liner as per the soil conditions. Adequate dam / dyke safety measures shall also be implemented to protect the ash dyke from getting breached.
4. In case of waste-to-energy plant, major problems related with environment are fire smog in MSW dump site, foul smell and impacts to the surrounding populations. Therefore, the following measures are required to be taken up:



- i) Water hydrant at all the dumpsites of MSW area to be provided so that the fire and smog could be controlled.
- ii) Sprayer like microbial consortia may be provided for arresting the foul smell emanating from MSW area.

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 existing power plant as well as for proposed power project shall be carried out annually from a reputed institute and report be submitted to the Ministry's Regional Office, Bhubaneswar.
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 a qualified person on the subject, who shall be reporting directly to the Head of the Project.
7. The project proponent shall (Post-EC Monitoring):
 - a. Send a copy of environmental clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government;
 - b. Upload the clearance letter on the web site of the company as a part of information to the general public.
 - c. Inform the public through advertisement within seven days from the date of issue of the clearance letter, at least in two local newspapers that 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 Environmental, Forest and Climate Change (MoEF&CC) at <http://parviesh.nic.in>.
 - d. Upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and update the same periodically.
 - e. Monitor the criteria pollutants level namely; PM (PM_{10} & $PM_{2.5}$ in case of ambient AAQ), SO_2 NO_x (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.
 - f. Submit six monthly reports on the status of compliance of the stipulated environmental conditions including results of monitored data (both in hard



copies as well as by e-mail) to the Regional Office of MoEF & CC, the respective Zonal Office of CPCB and SPCB;

- g. Submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environmental (Protection) Rules, 1986, as amended subsequently and put on the website of the company;
- h. 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.

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.

Other Specific Conditions:

1. The extension of validity of environmental clearance dt.17.11.2011 is granted with a condition that "By October, 2019, the Project Proponent has to submit full scale compliance report on all EC conditions to SEIAA, failing which the EC is liable to be summarily revoked".
2. The applicant (Project proponent) will take necessary measures for prevention, control and mitigation of Air Pollution, Water Pollution, Noise Pollution and Land Pollution including solid waste management as mentioned by him in Form-1, Final EIA reports and Environment Management Plan (EMP) in compliance with the prescribed statutory norms and standards.
3. The applicant will take necessary steps for socio-economic development of the people of the area on need based assessment for providing employment, education, health care, drinking water and sanitation, road and communication facilities etc. after a detailed primary socio-economic survey.
4. The applicant will comply to the points, concerns and issues raised by the people during public hearing on 27.07.2011 in accordance with the commitments made by him thereon.
5. The applicant will take statutory clearance /approval /permissions from the concerned authorities in respect of his project as and when required.
6. The proponent will submit half-yearly compliance report on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by email) and shall also upload the compliance report in the MoEF & CC website to the State Environmental Assessment Authority (SEIAA), Odisha, SPCB & Regional Office of the Ministry of Environment & Forest, Odisha on 1st June and 1st December of each Calendar Year.
7. Land acquisition and transfer to EPOL should be complete in all respects before start of construction.


8. High efficiency Electrostatic Precipitators (ESPs) shall be installed in each unit to ensure that particulate matter (PM) emission to meet the stipulated standards of $30\text{mg}/\text{Nm}^3$.
9. Excess water along with storm water during monsoon should not be discharge into the surrounding low lying area. The storm water shall be stored in reservoir and after treatment shall be used for dust suppression.
10. The storm water during monsoon will be collected in a pond and after appropriate treatment shall be stored in a reservoir for use in plantation, dust suppression etc. At no point of time the water will be discharged to surrounding areas.
11. Under no circumstances the process water shall be discharged to river Mahanadi. It should be properly treated, stored and 100% recycled in the process.
12. The DOWR, GoO may be appraised of the allocation of required amount of water from ESOL to EPOL and the purpose of use other that already approved. A clearance to this effect may be produced before start of construction activity.
13. No ground water shall be extracted for the project work at any stage.
14. The technical specification of AFBC system, lime requirement along with point of injection into the bed, peak temperature of combustion, SO_2 and NO_x emission potential etc. from the manufacturer to ensure the pollution potential (both qualitative and quantitative) of the proposed project with respect to bed ash, fly ash, effluents, emissions etc. to be submitted to SEIAA before commissioning of the plant.
15. Fly ash shall be collected in dry form and ash generated shall be used in phased manner as per provisions of the Notification on Fly Ash Utilization issued by the Ministry and amendment thereto. By the end of 4th year, 100% fly ash utilization should be ensured. Unutilized ash shall be disposed off in the ash pond in the form of High Concentration Slurry. Mercury and other heavy metals (As, Hg, Cr, pb, etc) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. 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.
16. Unutilized ash shall be disposed off in the ash pond in the form of High Concentration Slurry/ Medium Concentration Slurry/ Lean Concentration Slurry method. Ash water recycling system shall be set up to recover supernatant water.
17. Storing of unutilized ash in a pond, filling up of low lying areas, use in road construction etc. should be as per Notification issued by MoEF for fly ash utilization and amended in 2009.
18. The ash pond should be constructed with impervious lining and ash pond embankment should be stone pitched.
19. The treated effluents conforming to the prescribed standards shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary. Arrangements shall be made so that effluents and storm water do not get mixed.
20. Rainwater harvesting in and around the plant area shall be taken up to compensate drawal of fresh water. Necessary arrangements for recharge of groundwater shall be undertaken to improve the ground water table in the area. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater

- harvesting technology within a period of three months from the date of issue of this EC order, under intimation to SEIAA, Odisha.
21. Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Details of these measures to be taken along with location plant layout shall be submitted to the SEIAA, Orissa.
 22. Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/LSHS shall be made in the plant area where risk is minimum. On site and off site Disaster Management Plans shall be prepared to meet any eventuality in case of an accident taking place. Mock drills shall be conducted regularly and based on the same, modifications required, if any shall be incorporated in the Disaster Management Plan (DMP). Sulfur content in the liquid fuel will not exceed 0.5%.
 23. Regular monitoring of ground water in and around the ash pond area shall be carried out, records maintained and half yearly reports shall be furnished to the SEIAA, Orissa.
 24. A green belt of adequate width and density preferably with local species of plants, along the periphery of the factory & alongside roads etc shall be raised so as to provide protection against particulates and noise. It must be ensured that at least 33% of the total land area shall be under permanent green cover with indigenous native tree species in accordance with CPCB guidelines. The project proponent shall ensure proper maintenance of green belt throughout the year & for this purpose they may engaged professionals in this field for creation and maintenance of the green belt. An action plan for this purpose shall be prepared accordingly and submitted to the SEIAA, Orissa enclosing with six monthly compliance report.
 25. First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
 26. Noise levels emanating from turbines and air compressors shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipments like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/ less noisy areas.
 27. Regular monitoring of ground level concentration of SO_2 , NO_x , RSPM (PM_{10} & $PM_{2.5}$) etc. shall be carried out in the impact zone and records to be maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB, Orissa.
 28. Provision shall be made for housing of construction labourers within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
 29. A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.



30. Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to the appropriate authorities.
31. Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported.
32. The need of the local people should be appropriately addressed in the CSR activities to be undertaken by the project proponent in the area. An action plan in this regard should be prepared and submitted to SEIAA, Orissa.
33. The above mentioned stipulated conditions shall be complied in time bound manner. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract penal action under the provisions of Environment Protection (EP) Act, 1986.

Yours faithfully,


Member Secretary

Memo No 6749/SEIAA / Dt. 29.5.19.

Copy to

1. Joint Secretary (Environment), Ministry of Environment, Forests and Climate Change Govt. of India, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi-110003 for information.
2. Additional Chief Secretary, Forests & Environment Dept., Government of Odisha for information.
3. Member Secretary, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar for information.
4. Additional Principal Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment & Forests, A-31, Chandrasekharpur, Bhubaneswar for information.
5. Chairman, Central Pollution Control Board, CBD-cum-office Complex, East Arjun Nagar, New Delhi-110032 for information.
6. Member Secretary, CGWA, 18/11, Jamnagar House, ManSingh Road, New Delhi-110011 for information.
7. Collector, District Magistrate, Jagatsinghpur, for kind information and necessary action.
8. Chairman/Member/Member Secretary, SEIAA for kind information.
9. Chairman, SEAC/Secretary, SEAC, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar for kind information.
10. Guard file for record.


Member Secretary

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