



J-13012/01/2016-IA. I (T)
Government of India
Ministry of Environment, Forest and Climate Change

Indira Paryavaran Bhawan, Jor Bagh Road,
Aliganj, New Delhi-110003.

Dated: 03.09.2019

To

M/s Adani Power (Jharkhand) Ltd.
Adani House, Nr. Mithakhali Circle,
Navrangpura,
Ahmedabad-380009.

Tel No. 079-25556900; Fax No. 079-25557155.

Sub: 2x800 MW Imported coal based Godda Thermal Power Project at Village Motia, Patwa, Gangta and Nayabad of Godda Block and Sondiha, Petbi, Gayghat, Ranganiya and Mali villages of Poraiyahaat Block, Distt. Godda, Jharkhand by M/s Adani Power (Jharkhand) Limited- reg. amendment in Environmental Clearance.

Sir,

This has reference to your online application No. **IA/JH/THE/54853/2016** dated 11.12.2018 and the documents vide your letter dated 29.6.2019 w.r.t the above mentioned project.

2. It has been noted that the Environmental Clearance for 2x800 MW Imported coal based Thermal Power Project in District Godda, Jharkhand has been issued vide Ministry's letter dated 31.8.2017.

3. It has been noted that you have requested for amendment in EC for change in source of water from Chir River to Ganga River. As per the Environmental Clearance dated 31.8.2017, the water requirement for the proposed project is 36 MCM per annum (96,000 m³/day) and shall be met from Chir River which is located at a distance of 15 km from the proposed project. As there is no sufficient water in Chir River, it has now proposed to draw the same quantity of water from Ganga River. The intake point is located in Borio Block, Sahibganj District, Jharkhand and the water will be transported by a pipeline with a length of 93 km. A source sustainability study has been conducted to assess the availability of water in Ganga River.

4. It is noted that the MoU has been signed between Water Resources Department, Govt. of Jharkhand and the project proponent vide dated 9.3.2018. The National Mission for Clean Ganga (NMCG), Ministry of Water Resources, River Development & Ganga Rejuvenation has also accorded permission vide letters dated 8.8.2018 and 16.11.2018 for withdrawal of 36 MCM of water from River Ganga during June to December, shall be complied with.

5. It has been informed that the storage reservoir earlier planned in 441 acres has been reduced to 156 acres as the water drawl period has now been increased from 4 months to 6 months. Other facilities have also been reworked and the total project area has now been revised to 558 acres from 1255 acres.

6. It has been informed that the total length of RoU for laying water pipeline is as 93 km out of which 6.9 km passes through forest land and requires diversion of forest land of 13.3293 ha. In-principle Forest Clearance for diversion of 13.3293 ha has been accorded vide Ministry's letter dated 28.6.2019.

7. The matter has been considered before the EAC (Thermal Power) in its 24th and 26th meetings held on 23.1.2019 and 27.3.2019. In acceptance of the recommendations of the EAC (Thermal Power) in its 26th meeting held on 27.3.2019 and in view of the information/clarification furnished by you with respect to implementation of the above mentioned power project, ***the Ministry amends the Environmental Clearance dated 31.8.2017 for change water source from Chir River to Ganga River for drawing 36 MCM and creation of storage reservoirs for 15 MCM to cater during lean season subject to the following conditions***

- i. Stage-I Forest Clearance for diversion of 13.3293 ha for laying pipeline shall be submitted. As per Ministry's guidelines, a formal amendment will be issued after furnishing the Stage-I Clearance.
 - ii. Inline with Ministry's OM dated 11.3.2010 in regard to Oil and Gas pipelines, in a similar manner, 10 trees to be planted for every tree cut in the non-forest area.
 - iii. There will be storage reservoirs for storing 15 MCM water to cater during lean season.
 - iv. Daily quantity (Average, minimum and maximum) of fresh water withdrawn from Ganga River near Sahebganj for the Power Plant shall be recorded and data base be preserved to ensure permissible drawl of fresh water from Ganga River. The source sustainability reports for withdrawal of water from Chir River and from the Ganga River shall be placed in the public domain by the proponent, either by uploading to the PARIVESH portal or its own website.
 - v. As per the original EC, 33% greenbelt of plant area shall be developed. In case of any shortage of land, additional land shall be acquired to meet the condition.
 - vi. The conditions specified in the In-Principle (Stage-I) Forest Clearance dated 28.6.2019 shall be complied with. A compliance to these conditions shall also be submitted along with Six monthly compliance report. Further, copy of Formal (Stage-II) Approval shall be submitted as and when it is obtained.
 - vii. The total project area has now been reduced to 558 acres from 1255 acres. The remaining area (if acquired) shall be developed as greenbelt.
 - viii. All the conditions prescribed in the permission granted by National Mission for Clean Ganga (NMCG), Ministry of Water Resources, River Development & Ganga Rejuvenation vide their letters dated 8.8.2018 and 16.11.2018 for withdrawal of 36 MCM of water from River Ganga during June to December, shall be complied with.
8. All other conditions stipulated in the Ministry's even letter dated 31.8.2017 shall remain the same, as applicable.

This issues with the approval of Competent Authority.

Yours faithfully,


(Dr. S. Kerketta)
Director, IA.I

Copy to:-

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
2. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.

4. The Deputy Director General of Forests (C), Ministry of Environment, Forests and Climate Change, Regional Office (ECZ), Bungalow No. A-2, Shyamali Colony, Ranchi – 834002.
5. The Special Secretary, Environment, Forest and Climate Change Department, Govt. of Jharkhand, Ranchi- 814154.
6. The Chairman, Jharkhand State Pollution Control Board, T.A. Division Building (Ground Floor), H.E.C. Dhurwa, Ranchi-834004.
7. The District Collector, Godda District, Govt. of Jharkhand, Collectorate Office, Godda, Jharkhand-814133.
8. Guard file/Monitoring file.
9. Website of MoEF&CC.



Director, IA.I



J-13012/01/2016-IA.I (T)
Government of India
Ministry of Environment, Forest and Climate Change

Indira Paryavaran Bhawan, Jor Bagh Road,
Aliganj, New Delhi-110003.

Dated: 31.08.2017

To

✓ M/s Adani Power (Jharkhand) Ltd.
Adani House, Nr. Mithakhali Circle,
Navrangpura,
Ahmedabad-380009.

Tel No. 079-25556900; Fax No. 079-25557155.

Sub: 2x800 MW Imported coal based Godda Thermal Power Project at Village Motia, Patwa, Gangta and Nayabad of Godda Block and Sondiha, Petbi, Gayghat, Ranganiya and Mali villages of Poraiyahaat Block, Distt. Godda, Jharkhand by M/s Adani Power (Jharkhand) Limited- reg. Environmental Clearance.

Sir,

This has reference to your online application dated 12.4.2017 and the additional documents submitted vide letter dated 13.6.2017 w.r.t the above mentioned project.

2. It has been noted that Terms of Reference has been issued for the above mentioned project on 26.7.2016 for preparation of EIA/EMP studies and carrying out Public Consultation. It has been inter-alia noted that the proposal is for setting up of 2x800 MW Imported Coal based Super Critical Thermal Power Project at Villages Motia, Patwa, Gangta and Nayabad of Godda Block and Sondiha, Petbi, Gayghat, Ranganiya and Mali villages of Poraiyahaat Block, Distt. Godda, Jharkhand.

3. Nearest Railway station is Hansdiha which is at 45 km from the proposed project. The nearest major water body is Beharajor Nadi present at a distance of 0.35 km in NE direction. There are no national parks, wildlife sanctuaries or ecologically sensitive areas within 10 km radius of the proposed project. The 10 km radius buffer zone falls in Godda District of Jharkhand state and Banka District of Bihar state. Interstate boundary of Jharkhand and Bihar is at a distance of 3.2 km from the proposed project. MoU has been signed between Government of India and Government of Bangladesh for supplying power to Bangladesh on 11.1.2010. Similarly, MoU has been signed between Bangladesh Power Development Board and Adani Power Ltd. for exporting power to Bangladesh on 11.8.2015.

4. Total land requirement for the proposed project is 1,255 acres (508.15 ha). Land use of the proposed project is agricultural land, fallow land and waste land including Surface Water. Land ownership is mostly private and classified as Santhal Pargana Land. Application for land acquisition has been submitted to concerned department of Godda of 1,363.15 acres out of which 1,214.49 acres is private land and 148.66 acres is Government land. In addition to 1255 acres, there will be additional land acquisition of 30 ha (6 km x 50 m) for laying railway line. Also, Right of Use (RoU) and Right of Way (RoW) will be acquired for laying water pipeline (15 km x 20 m) and transmission line (551 ha x 106 km). Laying of transmission line involves forestland. Land is being acquired by GoJ as per LARR 2013 & Jharkhand Right to Fair Compensation and Transparency in Land Acquisition, R&R rules, 2015. Under Section 11, publication of preliminary notification has been made on 24.3.2017-

25.3.2017. Under Section 16, draft R&R scheme has been prepared and submitted to the District Collector on 11.4.2017.

5. Coal requirement for the proposed project is 7-9 MTPA at 85% PLF which will be imported from Indonesia/Australia/ South Africa. A commitment letter has been issued by M/s PT Limas Tunggal (Jakarta based company) to the company on 1.4.2017 for supplying 9 MPTA of coal. The specifications given in the commitment letter are GCV: 3,500-5,000 kcal/kg; Total Moisture: 9-20%; Ash: 25%, Volatile Matter: 21-26% and Sulphur: Not specified.

6. Water requirement for the proposed project is 36 MCM per annum (4,000 m³/h) and shall be met from Chir River which is located at a distance of 15 km from the proposed project. MoU has been signed between Water Resource Department and the company on 23.11.2016 for water withdrawal of 2 MCM during November, 2018-November, 2019, 18 MCM during November, 2019-November, 2020 and 36 MCM during November, 2020-November, 2021. To meet water requirement during non-monsoon period, a storage reservoir of 24 MCM capacity has been provided. Various sources of water have been explored including Sunder Dam Reservoir at Deonapur, which is at a distance of 30 km from the proposed site, but there is no sufficient water storage and also water from this reservoir is used for irrigation purpose. By water availability study of surrounding areas, it has been emerged that water requirement for the proposed project can be met from Chir River.

7. It is proposed to supply electricity from the plant to Bangladesh through a dedicated 400 kV DC transmission line which shall be constructed from the proposed site to an interconnection point near Bangladesh border.

8. Baseline Environmental Studies were conducted during post monsoon season (October to December, 2016). The predominant wind direction is found to be towards South-West during the study period. AAQ monitoring has been carried out at 10 locations during the study period. The 98th percentile values of 24 hourly concentrations of PM₁₀, PM_{2.5}, SO₂ and NO₂ are in the range of 49.5-69.7 µg/m³, 18.2-36.4 µg/m³, 8.4-13.2 µg/m³ and 13.3-22 µg/m³, respectively. Highest concentration of PM₁₀ (89.7 µg/m³), PM_{2.5} (36.4 µg/m³), SO₂ (14.2 µg/m³) and NO₂ (22.4 µg/m³) were recorded at Siktia village. CO is in the range of 0.9-1.45 mg/m³. The observed concentrations at all locations were found to be below the National Ambient Air Quality Standards (NAAQMS 2009). Noise monitoring was carried out at eight residential areas. Noise levels (Leq) in the study area varied from 47.6-55.8 dBA during daytime and 32.3-39.1 dBA during nighttime. Increase in noise levels may be attributed to traffic movement nearby highway.

9. Surface water samples collected from 5 water bodies. pH varied between 6.98-7.94. DO varies from 4.6-5.9 mg/l. BOD varies from 2.1-10.8 mg/l. COD is in the range of 5.1-10.8 mg/l. MPN varies between 180-2,000 per 100 ml. Beharjor Nadi and Baksara nadi conform to Class-D: Suitable for propagation of wildlife and fisheries, and remaining water bodies conform to Class-B: Suitable for outdoor bathing (Organized).

10. Five groundwater samples have been collected in the study area. Values of ground water are in the range of pH: 7.32-8.06; Turbidity: <1 NTU; Alkalinity: 139.5-182.5 mg/l; TDS: 329-469 mg/l; Chlorides: 41.6-79.5 mg/l; Sulphate: 21.5-42.1 mg/l; Fluoride: 0.49-0.97 mg/l; Zinc: 1.5-4.8 mg/l; Iron: 0.17-0.28 mg/l and heavy metals: BDL.

11. Soil samples have been collected from 7 locations. The pH of the soil samples was found to be slightly acidic to slightly alkaline. Moisture content of the soil samples were found in the range of 3.5-6.9% by mass. The predominant texture of the soil was found to be sandy loam and clay loam. Organic content of the soil samples was found to be in the range of 0.5-0.96% by mass, which indicates average to

sufficient fertility of the soil. NPK values are in moderate levels. The soil in the study area is moderately fertile.

12. Air quality impact has been predicted for the proposed power plant. The maximum incremental ground level concentrations have been found at a distance of 4 km NE. First highest concentrations have been predicted for PM10 is in the range of 1.63 µg/m³, SO₂: 1.63 µg/m³ and NO_x: 5.44 µg/m³ at a distance of 3.11 km in the NE direction.

13. The project site is more or less undulated land and there will not be much cutting filling and also leveling of land. There are two streams passing and one unlined Kachcha canal passing through the proposed site. The streams are first order and second order streams, one on the western side and another on the eastern side. The stream on the western side will be retained and routed between the proposed water reservoir and the proposed ash dyke. The stream will thus be retained and the natural drainage profile will also be maintained. The second stream on the Eastern side of the plot will come under the footprint of the Power Plant. It is proposed to develop the drainage pattern of the Power Plant along the natural drainage profile and to include the inflow and outflow of the stream. Thus, the second stream will merge in the storm water drainage of the Power Plant and the natural drainage profile will be maintained. The unlined kachcha canal passing through the proposed site will be realigned along the western boundary of the Project site, retaining the points of entry and exits. The drains will be made RCC and interconnected with the main drainage. Thus, the flow in the canal will also be maintained. The project is based on zero discharge concept during non-monsoon period and therefore no effluents from the plant will be discharged into the nearby water bodies.

14. Water sufficiency and in-stream users during monsoon due to withdrawal of water for 36 MCM have been submitted by the PP which was studied by WAPCOS. The report reveals that based on the drawl pattern of the proposed withdrawal for industrial use, there is sufficient water available for any in-streams users and is found to be more than 94% from June to October of any calendar year, which is based on the rainfall pattern of the area. Therefore, there is no impact to the downstream users during monsoon season. Total water withdrawal is only 3.8% of the total water available in the Chir river.

14. It is estimated that around 1.77 MT of ash (About ~ 237 TPH) shall be generated every year. Around 80% of the ash is fly ash (about 1.41 MT) and 20% is bottom ash (about 0.35 MT). MoU signed for flyash utilisation up to 5,000 TPD with four companies. The PP has already signed MoUs with four companies viz., Ambuja Cements Limited, Ashtech (India) Private Limited, Marshall Corporation Limited and Leonard Exports for utilizing up to 5,000 TPD of fly ash generated at the plant. Fly ash generated from the plant will be supplied as raw material to the cement plants based in West Bengal, Bihar, NE regions of India and export to Bangladesh, Nepal and Bhutan. The unutilized ash shall be stored in ash pond.

15. Twin-flu RCC stack with a height of 275 m will be installed for dispersion of emissions. High Efficiency Electrostatic precipitators with each boiler to limit the particulate matter to less than 30 mg/Nm³, Low NO_x burners with Selective Catalytic Reduction to limit NO_x emissions to less than 100 mg/Nm³ and Flue Gas Desulphurisation (FGD) to limit the SO₂ to less than 100 mg/Nm³ will be installed. Mercury emissions will also be restricted to less than 0.03 mg/Nm³.

16. Public Hearing for the proposed project was held on 5.3.2017 at the campus of Motiya High School in Godda District of Jharkhand. Public Hearing proceedings have been prepared in Hindi and signed by the Presiding officer (ADM) and Jharkhand Pollution Control Board. Greenbelt development in one third area, employment to locals, CSR activities and complying to environmental standards are the major issues raised by the public. Public also requested to carry out deepening of ponds within 10

km radius of the project. Rs.1.43 Crores has been allocated for deepening of the ponds within 10 km radius.

Action plan for Public hearing concerns has been prepared and submitted. An amount of Rs. 10.60 crores has been kept aside for greenbelt development and Rs.50 Lakhs for Afforestation in surrounding villages. A budget of Rs. 143 lakhs has been provided for pond deepening purpose as part of Capital cost under CSR budget. Company has considered promotion of Professional Education by supporting students of educational institutions offering courses in Diploma Engg., Nursing, Management, Medicine and in other technical subjects for which an amount of Rs.138 lakhs has been kept aside.

17. 252 acres, out of total 1,255 acres will be allocated for greenbelt development. Greenbelt will be developed in an area of 252 Acres where 80 Acres in Main Plant & remaining i.e. 172 Acres in RWR (raw water reservoir) & Ash pond, in consultation with the State Forest Department authorities and as per CPCB guidelines.

18. During construction phase, project would provide employment to more than 5,000 skilled, semi-skilled and unskilled labourers. During operational phase, power plant would employ more than 300 personnel. In addition, more than 1,500 people would be required for various ancillary services in power plant like housekeeping, security, ash management, horticulture and maintenance of infrastructure. There are plans to provide an outlay of about 0.4% of the project cost in the coming years under its CSR program. There are total of 5,339 Project Affected People (PAP) with 841 families comprising of 2,883 males and 2,456 females. R&R plan has been prepared with the cost of Rs.507 Crores.

19. Company has earmarked Rs.55.62 crores for implementation of CSR activities in the surrounding villages for improvement in education, sanitation, health, livelihood, rural infrastructure and rural sports. Cost of Environmental Protection measures including Solar Power installation and Rainwater Harvesting is Rs.2,225.6 Crores. Estimated project cost is Rs.13,906 Crores. There are no court cases pending against the project.

20. The proposal was appraised by Re-constituted EAC (Thermal) in its 6th and 7th meetings held on 29.5.2017 and 28.6.2017. In acceptance of the recommendations of the Re-constituted EAC (Thermal Power) in its 7th meeting held on 28.6.2017 and in view of the information, clarifications, documents submitted by you, **the Ministry hereby accords the Environmental Clearance** to the above project under the provisions of EIA Notification dated September 14, 2006 and subsequent amendments therein subject to compliance of the following Specific and General conditions.

A. Specific Conditions:

- (i) Total Ash and Sulphur content in the imported coal shall not exceed 25% and 0.5% respectively.
- (ii) Land acquisition shall be carried out by the State Govt. in accordance with Santhal Pargana Tenancy Act, 1949, Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013 and other prevailing laws. Documents in support of land acquisition after completion acquisition process shall be submitted to this Ministry aswell as concerned Regional Office.
- (iii) As per the Revised Tariff Policy notified by Ministry of Power vide dated 28.01.2016, project proponent shall explore the use of treated sewage water from the Sewage Treatment Plant of Municipality/ local bodies/ similar organization located within 50 km radius of the proposed power project to minimize the water drawl from surface water bodies.
- (iv) Compliance of EC conditions, E(P) Act, 1986, Rules and MoEF&CC Notifications issued time to time shall be achieved by a qualified environment officer to be nominated by the Project Head of the Company who shall be responsible for implementation and necessary compliance.

- (v) MoEF&CC Notification S.O. 3305(E) dated 7.12.2015 and subsequent notifications issued time to time shall be implemented with respect to specific water consumption, zero liquid discharge and revised emission standards. The PM, SO₂, NO_x and Hg emissions shall not exceed 30 mg/Nm³, 100 mg/Nm³, 100 mg/Nm³ and 0.03mg/Nm³ respectively. The specific water consumption shall not exceed 2.5 m³/MWh and zero wastewater discharge shall be achieved.
- (vi) MoEF&CC Notifications on flyash utilization S.O. 763(E) dated 14.09.1999, S.O. 979(E) dated 27.08.2003, S.O. 2804(E) dated 3.11.2009, S.O. 254(E) dated 25.01.2016 and subsequent amendments shall be complied with.
- (vii) Separate Environmental Clearance may be obtained for the proposed Township as applicable under EIA Notification 2006.
- (viii) Solar rooftops shall be installed in the surrounding villages as part of CSR activities.
- (ix) Skill mapping of the Project Affected People (PAF) be carried out on a long-term basis for their livelihood generation. A report is to be submitted within 3 months to the Ministry from the date of issuance of environmental clearance.
- (x) Modern methods of agriculture organic farming, compost/vermiculture making and utilization, drip/direct to root irrigation) to be promoted in and around the Project area.
- (xi) While implementing CSR,
- Women empowerment is important. Therefore, proper skill based training/long term livelihood revenue generation be created for all them.
 - Computer facilities may be provided in the school along with a trained computer teacher to inculcate computer skill among the youths.
 - Water supply provisions shall be made for all the bio-toilets under Swachh Bharat Abhiyan.
 - Preventive health programme may be preferred than the curative health programme such as nutrition development of small children in and around the project.
- (xii) Vision document specifying prospective plan for the site shall be formulated and submitted to the Regional Office of the Ministry within **six months**.
- (xiii) Harnessing solar power within the premises of the plant particularly at available roof tops shall be carried out and status of implementation including actual generation of solar power shall be submitted along with half yearly monitoring report.
- (xiv) A long term study of radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute and results thereof analyzed every two year and reported along with monitoring reports. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.
- (xv) Online continuous monitoring system for stack emission, ambient air and effluent shall be installed.
- (xvi) High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 30 mg/Nm³ or as would be notified by the Ministry, whichever is stringent. Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided along with an environment friendly sludge disposal system.
- (xvii) Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.

- (xviii) Monitoring of surface water quantity and quality shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall also be undertaken and results/findings submitted along with half yearly monitoring report.
- (xix) A well designed rain water harvesting system shall be put in place within six months, which shall comprise of rain water collection from the built up and open area in the plant premises and detailed record kept of the quantity of water harvested every year and its use.
- (xx) No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up/operation of the power plant.
- (xxi) Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.
- (xxii) Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) shall be monitored in the bottom ash. No ash shall be disposed off in low lying area.
- (xxiii) No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media such that no leachate shall take place at any point of time. In case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be undertaken from an institute of repute and adequate clay lining shall be ascertained by the State Pollution Control Board and implementation done in close co-ordination with the State Pollution Control Board.
- (xxiv) Fugitive emission of fly ash (dry or wet) shall be controlled such that no agricultural or non-agricultural land is affected. Damage to any land shall be mitigated and suitable compensation provided in consultation with the local Panchayat.
- (xxv) Green Belt consisting of three tiers of plantations of native species all around plant and at least 50 m width shall be raised. Wherever 50 m width is not feasible a 20 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not be less than 2500 per ha with survival rate not less than 80 %.
- (xxvi) Green belt shall also be developed around the Ash Pond over and above the Green Belt around the plant boundary.
- (xxvii) The project proponent shall formulate a well laid Corporate Environment Policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.
- (xxviii) CSR schemes identified based on need based assessment shall be implemented in consultation with the village Panchayat and the District Administration starting from the development of project itself. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken. Company shall provide separate budget for community development activities and income generating programmes.
- (xxix) For proper and periodic monitoring of CSR activities, a CSR committee or a Social Audit committee or a suitable credible external agency shall be appointed. CSR activities shall also be evaluated by an independent external agency. This evaluation shall be both concurrent and final.

B) General Conditions:

- (i) The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not get mixed.
- (ii) A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.
- (iii) Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.
- (iv) Storage facilities for auxiliary liquid fuel such as LDO/ HFO/LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.
- (v) First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
- (vi) Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85 dB(A) from source. For people working in the high noise area, requisite personal protective equipment 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.
- (vii) Regular monitoring of ambient air ground level concentration of SO₂, NO_x, PM_{2.5} & PM₁₀ and Hg shall be carried out in the impact zone and records 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. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.
- (viii) Utilization of 100% Fly Ash generated shall be made from 4th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.
- (ix) Provision shall be made for the housing of construction labour (as applicable) 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.
- (x) The 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 letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at the Website of MoEF&CC at <http://envfor.nic.in>.
- (xi) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
- (xii) The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously

- be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM (PM_{2.5} & PM₁₀), SO₂, NO_x (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.
- (xiii) The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.
- (xiv) **The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to MoEF&CC, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, MoEF&CC.**
- (xv) The progress of the project shall be submitted to CEA on six monthly basis.
- (xvi) Regional Office of the MoEF&CC will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly basis. **Criteria pollutants levels including NO_x (from stack & ambient air) shall be displayed at the main gate of the power plant.**
- (xvii) 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 to the Ministry.
- (xviii) The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.
- (xix) Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry / CPCB/ SPCB who would be monitoring the compliance of environmental status.

C) An as built or as completed report on EMP to be submitted stating the scope/extent of work envisaged in the EIA along with estimated cost vis-à-vis the actual completed works and cost incurred. A certificate/completion certificate accordingly, shall have to be submitted before commissioning of the TPP.

21. The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction. The Ministry may also impose additional environmental conditions or modify the existing ones, if necessary.

22. The environmental clearance accorded **shall be valid for a period of 7 years** from the date of issue of this letter to start operations by the power plant.

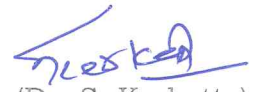
23. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

24. In case of any deviation or alteration in the project proposed including coal transportation system from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any.

25. 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 & Transboundary Movement) Rules, 2008 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.

26. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Yours faithfully,


(Dr. S. Kerketta)
Director

Copy to:-

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
2. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
4. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forests and Climate Change, Regional Office (ECZ), Bungalow No. A-2, Shyamali Colony, Ranchi - 834002.
5. The Special Secretary, Environment, Forest and Climate Change Department, Govt. of Jharkhand, Ranchi.
6. The Chairman, Jharkhand State Pollution Control Board, T.A. Division Building (Ground Floor), H.E.C. Dhurwa, Ranchi-834004.
7. The District Collector, Godda District, Govt. of Jharkhand, Collectorate Office, Godda, Jharkhand-814133.
8. Guard file/Monitoring file.
9. Website of MoEF&CC.


(Dr. S. Kerketta)
Director