



No. J-13012/04/2017 - IA.I (T)
Government of India
Ministry of Environment, Forest and Climate Change

Indira Paryavaran Bhawan,
3rd Floor, Vayu Wing
Jor Bagh Road,
Aliganj, New Delhi-110003

Dated: 24.4.2018

To

M/s. MG Power Projects Ltd.
#6-3-347/13, Flat No.201,
Tejaswi Apartments,
Dwarakapur Colony,
Panjagutta, Hyderabad-500 082.

Tele Fax: 040 23351777.

Sub: Proposed 200 MW (1x135 MW and 1x65 MW) Coal based Thermal Power Project at Pedaveedu Village, Mattampalli Mandal, Nalgonda District, Telangana State by the M/s M.G Power Projects Limited - reg. Environmental Clearance.

Sir,

The undersigned is directed to refer your online application no. **IA/TG/THE/52024/2013** dated 5.2.2018 and Ministry's vide letter dated 26.4.2017 w.r.t the aforesaid project.

2. It has been noted that the you have proposed for establishing 200 MW (1x135 MW and 1x65 MW) Coal based Thermal Power Project at Pedaveedu Village, Mattampalli Mandal, Nalgonda District, Telangana State. The proposed project is based on sub-critical and CFBC boiler technology. The land requirement for the proposed project is 97 acres out of which 71.16 acres have already been acquired and the remaining area is in process of acquisition. The proposed project is designed to consume domestic or imported coal or blending. Domestic, imported and blending (Domestic: Imported-30:70) coal requirement is 3200 TPD, 2000 TPD and 2304 TPD respectively. Domestic Coal is proposed to source from SCCL Mines. However, no firm linkage has been obtained for domestic coal. As the linkage for domestic coal is not available, it has been proposed to obtain imported coal. MoU is signed with M/s PT Global Dwimudra for supply of Indonesian coal with ash and sulphur contents of 5-8% and 0.2-0.5% respectively. Imported coal will be transported from Kakinada port/any other port to the Mattampally railway station by rail. Thereafter, it is transported by road till the plant site for distance of approx. 10km. Total water requirement is 19,300 m³/day which has been proposed to source from Pulichintala Reservoir of Krishna River located at 4.5 km from the proposed site. Irrigation & CAD Department, Govt. of Telangana has accorded permission for water withdrawal of 11,712 KLD (4.787 cusecs or 0.151 TMC water per year) from Krishna river vide letter dated 10.9.2014. The quantity of water should be drawn only from the surplus flow of Krishna River. A dedicated pipeline (~4.5 km) will be laid from Pulichintala reservoir upto the project site for transportation of water.

3. There are no national Parks, Wildlife Sanctuaries within the study area of the proposed project. Vemuleru Vagu and Krishna River are located at 3.5 km and 4.5 km, respectively from the project site. Gurramboddu RF, Gundlpahad RF, Yellabodu RF, Nirchintavagu RF, Vajralgani RF, Sultanpur RF, Tangeda RF are situated within

10 Km. radius of the project site. Telangana – Andhra Pradesh interstate boundary exists at 4.6 Kms. from the project site. (The state of Telangana was officially formed on 2nd June 2014).

4. The site is located at 16°45'52.75" N Latitude and 79°48'33.43" E Longitude. Exact co-ordinates of the boundary are given in the table.

POINT	LATITUDE	LONGITUDE
A	16°45'52.75" N	79°48'33.43" E
B	16°45'49.80" N	79°48'45.02" E
C	16°45'50.56" N	79°48'54.10" E
D	16°45'49.14" N	79°49'04.60" E
E	16°45'48.92" N	79°49'11.38" E
F	16°45'42.47" N	79°49'11.71" E
G	16°45'40.94" N	79°49'00.77" E
H	16°45'35.25" N	79°48'52.90" E
I	16°45'37.98" N	79°48'49.73" E
J	16°45'39.083" N	79°48'44.48" E

5. It has also been noted that Terms of Reference (ToR) for the above mentioned project has been issued by State Level Environment Impact Assessment Authority (SEIAA), Andhra Pradesh vide their letter dated 20.9.2013. After formation Telangana State, the proposed project is located at 4.6 km from the inter-state boundary of Telangana and Andhra Pradesh states. Accordingly, the proposed project attracts the general condition of Schedule of EIA Notification, 2006 and is to be termed as Category 'A' projects which will be appraised by Ministry of Environment, Forest and Climate Change, New Delhi.

6. Final EIA/EMP has been submitted to the Ministry on 21.3.2016. The proposal has been de-listed by the Ministry on 4.11.2016 in light of the Ministry of Power (MoP) Office Memorandum dated 13.11.2009 as the proposed project is based on sub-critical technology. It has also been noted that Project Proponent has filed a Writ Petition no.40521 of 2016 in the High Court of Judicature at Hyderabad for directing this Ministry to consider their application for grant of environmental clearance without referring to the MoP policy letter dated 13.11.2009.

7. Hon'ble High Court of Judicature at Hyderabad passed Orders on 22.2.2017 in WPMP No.49926 of 2015 in WP No.40521 of 2016 directing the Ministry and other respondents to consider the project proponent's application within six weeks for grant of Environmental Clearance in light of the permission accorded to the Telangana State Power Generation Corporation Limited, which PP claims is similarly situated. In view of the MoP Policy advisory dated 13.11.2009 and MoP vide their OM dated 3.4.2017, the proposal for grant to Environment Clearance to the aforementioned project was rejected by the Ministry vide letter dated 26.04.2017.

8. MoP after careful consideration, has partially modified the MoP policy (vide dated 13.11.2009) through an Office Memorandum vide no. 5/18/2017-Th.II dated 1.2.2018. The operative part is reproduced below.

"Thermal power projects based on sub-critical Technology, which have either been granted "Environmental Clearances" or been issued 'Terms of Reference' by the Central/State Govt. And achieved "Zero date/Start date" as defined in CERC Regulations, may be allowed to be commissioned even after expiry of the 12th plan."

9. The definition of 'Zero date/start date' has also been enclosed along with the OM dated 1.2.2018 which says:

"Start Date or Zero Date" means the date indicated in the Investment Approval for commencement of implementation of the project and where no date has been indicated, the date of investment approval shall be deemed to be Start Date or Zero Date.

10. Further, CEA has also vide letter no.CEA/TPM-I/Misc/2018/322 dated 8.2.2018 requested Ministry to consider the proposals satisfying the conditions mentioned in the latest MoP OM (dated 1.2.2018). CEA has also quoted the contempt petition no.1651/2017 filed by M/s MG Power Projects.Ministry further sought the clarification from CEA vide e-mail dated 8.3.2018 that whether M/s M.G. Power Projects Ltd. achieved the Zero date or not. In response, Shri Sandesh Kumar Sharma, Principal Chief Engineer, CEA vide e-mail dated 8.3.2018 clarified that the M/s MG Power Projects Ltd. has obtained ToR and achieved the Zero date/start date. It has been clarified that the Project Proponent has complied with the both the conditions. Regarding Zero date, it was clarified that the company has already incurred an expenditure on procurement of land and other works as state in their petition filed in the Telangana High Court.

11. EIA/EMP studies have been carried out by M/s Pioneer Enviro Laboratories & Consultants Private Limited, Hyderabad. Baseline data collected during March, 2013-May, 2013. As the baseline collected is more than three years old, additional baseline has been collected during 1.12.2017-31.12.2017. Pre-dominant wind direction is 'South' during March-May, 2013 and East during December, 2017. Air quality samples and noise levels have been collected from 8 locations. Air quality and noise levels are within the standards. Incremental air quality concentrations due to proposed project and transport for PM, SO₂, NO_x and CO are 0.4 µg/m³, 7.5 µg/m³, 3.8 µg/m³ and 1.2 µg/m³ respectively.

12. ESP will be installed to the both the stacks of 108 m and 87 m to control PM emissions to 30 mg/Nm³. CFBC technology is a Clean technology. While burning the coal, fuel gas such as sulfur dioxide will be released. At the same time, sulfur-absorbing limestone will be used to mix with the fuel particles in the fluidization phase, which will absorb almost 95% of the Sulphur. However, a space provision for Flue Gas Desulphurization (FGD) units is kept in the layout of the plant. Further, a stack of 108 m and 87 m will be installed for dispersion of gases from 135 MW and 65 MW units respectively. Low NO_x emission as the temperature in the combustion chamber is 850°C to 900°C. At this temperature, there will be no thermal NO_x formation.

13. Waste water generation is 1843 m³/day. ETP will be set up to treat the wastewater from boiler blowdown, cooling tower blowdown, DM Plant regeneration, plant service water. Zero Discharge will be adopted. Treated wastewater is 1835 m³/day will be used for dust suppression (785 m³/day), ash conditioning (720 m³/day) and greenbelt development (330 m³/day).

14. Flyash of 128 Ton/day and Bottom ash of 32 Ton/day will be generated from imported coal and will be used in cement manufacturing. Flyash and Bottom ash will be given to M/s Sagar Cement Ltd. The area is surrounded by many cement plants. Further, bottom ash can be given to Brick manufacturers/ used in road laying. There will not be any ash pond as 100% ash utilisation will be achieved. Public Consultation process has been completed by Telangana State Pollution Control Board. Public Hearing has been conducted on 29.12.2014 at Gram Panchayat Office, Pedaveedu Village, Mattampally Mandal, Nalgonda Dist. State of Telangana has been officially formed on 2.6.2014 which has been presided by the District Revenue Officer. Main issues related to Public Hearing are providing employment, release of heavy metals and it their damage to crops, land acquisition, CSR activities, etc. Greenbelt Development in an area of 33 acres (~33%) will be developed around the periphery of



the plant. Estimated Project Cost is Rs. 1150 Crores. Employment during construction phase is 500 and operation phase is 125. Cost towards environmental management plan and protection measures is Rs.60.5 Crores. Capital budget of Rs.4.6 Crores (0.4 % of the Project Cost) has been earmarked for ESC activities and Rs. 0.92 Crores has been earmarked for recurring cost every year for ESC/CSR activities.

15. The proposal for grant of EC has been considered by the EAC (Thermal) in its 15th meeting held on 28.2.2018. In view of the recommendations of the EAC and the information/clarifications furnished by you, the Ministry hereby accords Environmental Clearance for the above mentioned projects under the provisions of EIA Notification, 2006 and subsequent amendments subject to the following conditions.

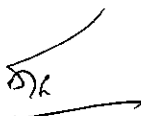
A) Specific Conditions:

- i. Revised emission norms and specific water consumption vide Ministry's notification dated 7.12.2015 and subsequent amendment notified time to time shall be complied, as applicable.
- ii. Implementation of railway siding and railway line for 7 km stretch shall be taken up with Railway authorities. The railway line and siding shall be ready at the time of commissioning of power plant.
- iii. As proposed, there shall not be any ash pond. 100% ash to be utilised in cement manufacturing and other utilisation modes.
- iv. As proposed, imported coal with Sulphur content should not exceed 0.6% and Ash content should not exceed 12%.
- v. Vision document specifying prospective plan for the site shall be formulated and submitted to the Regional Office of the Ministry within **six months**.
- vi. 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.
- vii. 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.
- viii. Online continuous monitoring system for stack emission, ambient air and effluent shall be installed.
- ix. 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.
- x. 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.
- xi. 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.
- xii. 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.
- xiii. 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.
 - xiv. 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.
 - xv. 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.
 - xvi. 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.
 - xvii. 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.
 - xviii. 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 %.
 - xix. Green belt shall also be developed around the Ash Pond over and above the Green Belt around the plant boundary, as applicable.
 - xx. 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.
 - xxi. 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.
 - xxii. 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.

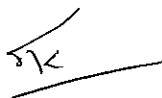
16. The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction. The Ministry may also impose additional environmental conditions or modify the existing ones, if necessary.

17. 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.

18. 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.

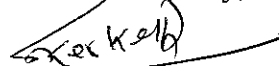
19. In case of any deviation or alteration in the project proposed including coal transportation system from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed and to add additional environmental protection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

20. 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.



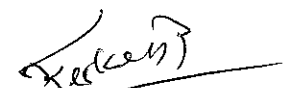
21. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Yours faithfully,


(Dr. S. Kerketta)
Director, I.A.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 Additional Principal Chief Conservator of Forests (C), Regional Office (SEZ), 1st and IInd Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai- 34.
5. The Principal Secretary, Department of Environment, Forests, Science and Technology, Govt. of Telanangana, Telangana Secretariat, Tank Bund, Basheer Bagh, Near NTR Gardens, Hyderabad, Telangana-500022.
6. The Chairman, Telangana State Pollution Control Board, Paryavaran Bhawan, A-3, Industrial Estate, Sanathnagar, Hyderabad-500018.
7. Guard file/Monitoring file.
8. Website of MoEF&CC.


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