



F.No. J-13012/26/2012-IA-II(T)
Government of India
Ministry of Environment, Forest and Climate Change

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

Dated: 11.04.2019

To

The Chief Engineer (Civil, Hydel, GS, C&I)
M/s Andhra Pradesh Power Generation Corpn. Ltd.
Vidyut Soudha, Gunadala
Vijayawada-520004,
Andhra Pradesh.

Phone: 0866-2526411; **E-mail:** environment.apgenco@gmail.com.

Sub: 1x800 MW (Stage-V) Dr. Narla Tata Rao Thermal Power Station, Village and Taluk Ibrahimpatnam, Krishna District, Andhra Pradesh by M/s Andhra Pradesh Power Generation Corporation Ltd. (APGENCO)- reg. amendment in EC.

Sir,

This has reference to your online application No. **IA/AP/THE/10488/2012** dated 04.02.2019 on the above mentioned subject regarding amendment in EC.

2. It has been noted that you have requested for change in source of coal from imported coal to domestic coal. It has been noted that the proposed project is under construction and existing stages: I-V (6x210 MW and 1x500 MW) are under operations.

3. The Environmental Clearance for establishing 1x800 MW Power Plant has been issued by this Ministry's vide letter 26.06.2015. As per the Environmental Clearance, the unit will be based on 100% imported coal. The coal requirement is 2.65 MTPA (8,088 TPD). The imported coal is supposed to be brought from Krishnapatnam port to the plant premises by rail. The Ash and Sulphur content in the imported coal has been restricted to 16% and 0.8% respectively as per EC condition. Further, an ash pond of 70 acres is to be acquired for proposed unit.

4. It has been informed that the Ministry of Coal vide letter dated 19.09.2017 granted long term coal linkage to Dr. NTPS, Stage-V (1x800 MW). M/s MCL issued Letter of Assurance (LOA) for supplying 3.548 MTPA coal with grade ranging from G11 to G15.

5. The imported coal requirement is 2.65 MTPA (8,088 TPD) as per Environmental Clearance. If domestic coal is used the quantity will be increased to 3.39 MTPA (10,272 TPD). The ash generation will increase from 0.4 MTPA (1,294 TPD) to 1.27 MTPA (2,492 TPD).

6. It has been informed that M/s APGENCO has already established Coal Washery Plant of 11 MTPA capacity at Balaram OCP, Talcher through M/s Spectrum Coal Power Limited on BOO basis to supply washed coal to Dr. NTPS. The washery will be used for beneficiation of the coal to be supplied for Stage V

power plant. M/s Mahanadi Coalfields Ltd. will deliver raw coal by road to washery set up by APGENCO. The washed coal will be transported to project site by rail.

7. The washed coal characteristics of the washed coal would be as below:

Parameter	Value
GCV	4200 kcal/kg
Ash	34%
Sulphur	0.62%

8. The maximum ground level concentrations have been predicted by using dispersion model (AERMOD) and the details are as below:

Parameter	PM ₁₀	SO ₂	NO _x
Baseline Scenario	95	36	45
Predicted GLCs for design emissions of PM : 30 mg/Nm ³ ; SO ₂ : 100 mg/Nm ³ & NO _x : 300 mg/Nm ³	0.53	1.4	4.2
Post Project Scenario	95.53	37.4	49.2
NAAQS Standards	100	80	80

9. Post project ground level concentrations are found to be within the NAAQS standard. The ash generation of existing 6x210 MW + 1x500 MW is in the range of 3.8 MTPA to 4.2 MTPA. The ash utilisation is in the range of 59.94-90.71%. The ash utilisation for the year 2018-19 (till January) is found to be 101.72%.

10. It has been informed that even though the 70 acres was permitted for ash disposal for Unit-5, the land acquisition proposal submitted to Revenue Department has been withdrawn considering the encouraging trend in the ash utilisation.

11. It has been informed that the Central Pollution Control Board (CPCB) vide Orders dated 10.4.2018 and 11.10.2017 extended the timelines to meet new emission standards for operating power plant as under:

Units	For PM, SO ₂ & NO _x
Units:1-6: 6x210 MW	31.12.2020
Unit: 7: 500 MW	31.12.2020 for PM & SO ₂ 31.12.2022 for NO _x

12. It has been informed that the Lokayuka vide their Order dated 30.11.2015 disposed the matter with no costs.

13. The proposal has been considered by the EAC (Thermal Power) in its 25th meeting held on 22.2.2019. In acceptance of recommendations of EAC in its meeting held on 22.2.2019 and in view of the clarifications/documents furnished by you, **the Ministry hereby amends the Environmental Clearance dated 26.06.2015 for change in coal source from imported coal to domestic coal with quantity of 3.39 MTPA (10,272 Tons/day) subject to following additional conditions:**

- i. The details of quantities of ash generation, utilisation to various purposes such as brick manufacturing, constructions, soil condition & cement manufacturing and disposal shall be provided for six months (April-September & October-March) in the six monthly compliance report.
- ii. As proposed, 70 acres of ash pond which was permitted as part of EC will not be used for ash disposal. The unused ash generated from the proposed unit, if any will be disposed of in the existing ash pond. Greenbelt shall be developed in the 70 acres area. Progress report mentioning the number of saplings, details of saplings, density, survival rate, quantity and source of water, expenditure spent on maintenance shall be provided.
- iii. As per the Ministry's flyash amendment Notification vide SO.254 (E) dated 25.01.2016, the company shall upload the details of stock of each type of ash generated/available from all Stages (6x210, 1x500 MW and 1x800 MW) on Company's website and shall update the stock position at least once a Month.
- iv. As per the Ministry's flyash amendment Notification vide SO.254 (E) dated 25.01.2016, the flyash shall be supplied to various utilising units. The cost of transportation of ash for road construction projects or for manufacturing of ash based products or use as soil conditioner in agriculture activity within a radius of hundred kilometers from Dr. Narla Tata Rao Thermal Power Station shall be borne by M/s APGENCO and the cost of transportation beyond the radius of hundred kilometers and up to three hundred kilometers shall be shared equally between the user and M/s APGENCO.
- v. For achieving compliance of flyash notification, a map and details of ash utilising units within 100 km radius and 100-300 km along with quantity of ash required for each unit shall be prepared and submitted to the Ministry within 3 months.
- vi. A public notice in major daily newspapers shall be published in both vernacular and English that the fly ash/bottom ash will be supplied free of cost for ash utilising units located within 100 km radius and the cost of transportation will be shared equally between user and M/s APGENCO for ash utilising units located in the radius of 100-300 km, in compliance to the flyash amendment notification dated 25.1.2016. A copy of newspaper notice shall be submitted to Regional Office.
- vii. While commissioning the proposed project, the compliance of revised emission norms vide Notification dated 07.12.2015 for the parameters PM: 30 mg/Nm³; SO₂: 100 mg/Nm³; NO_x: 100 mg/Nm³ and Hg: 0.03 mg/Nm³ shall be achieved along with specific water consumption as per the notification vide dated 28.06.2018. The FGD System, NO_x control measures such as SCR/SCNR/De-NO_x burners shall be installed to achieve the revised emission norms.
- viii. The status of installation of FGD and De-NO_x/SCR/SCNR control systems to comply with new emission norms for Stage-V (1x800 MW) and existing operating units shall be submitted.
- ix. The detailed progress report of construction of proposed project shall be submitted to the Ministry and its Regional Office along with six monthly compliance report till the unit is commissioned.

- x. As per the Revised Tariff Policy notified of Ministry of Power issued 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. The details of Sewage Treatment Plants located within 50 km radius along with the capacities shall be submitted.
- xi. The specific condition no.vii is to be substituted as *“The Sulphur and ash content of coal shall not exceed 0.8% and 34% respectively as washed domestic coal will be used by the unit. In case of any variation of quality at any point of time, fresh reference shall be made to the Ministry for suitable amendments to the environmental clearance”*.
14. All other conditions mentioned in this Ministry’s even no. letter dated 26.06.2015 shall remain the same, as applicable.


This issues with the approval of the 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 Additional Director General of Forests (C), Ministry of Environment Forests and Climate Change, Regional Office, (SEZ), 1st and 2nd Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai-600034.
5. The Principal Secretary Environment, Science and Technology, Government of Andhra Pradesh, Secretariat Office, 4th Block, Ground Floor, Room no.187, Velagapudi, Amaravathi-522238, Andhra Pradesh.
6. The Chairman, Andhra Pradesh State Pollution Control Board, D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalamvari Street, Kasturibaipet, Vijayawada – 520 008.
7. The District Collector, Krishna District, Govt. of Andhra Pradesh, Chilakalapudi, Machilipatnam, Andhra Pradesh 521002.
8. Guard file/Monitoring file.
9. Website of MoEF&CC.


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