



BIHAR STATE POLLUTION CONTROL BOARD

Parivesh Bhawan, Industrial Area, Patliputra, Patna – 800010

Ref. No- 1839

Patna, dated- 15-6-2022

EMISSION CONSENT ORDER

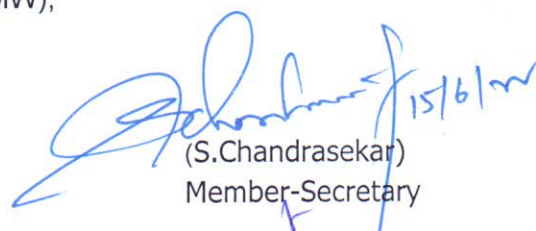
With reference to the Online application ID. 5853525, dated 26.04.2022, of M/s Nabinagar Super Thermal Power Project (3x660 MW), Vill-Majhiyawan, P.O.-Ankorha, Distt.-Aurangabad for consent under sections 21 of the Air (Prevention & Control of Pollution) Act, 1981, he/they is/are granted consent to operate his/their thermal power plant at Vill-Majhiyawan, P.O.-Ankorha, Distt.-Aurangabad for the capacity Power Generation (3x660 MW) for the period of five years from the date of issue with the following conditions:-

1. That, he/they shall not make any alteration, addition, deletion or modification in the plant without the prior clearance from the Board and shall also abide by the obligations under sections 22,23 and 31A of the Air (Prevention & Control of Pollution) Act, 1981 and further shall extend co-operation to the Board in performing its functions entrusted under sections 24,25 and 26 of the Act ;
2. That, he/they shall comply with the requirements of rule 14 of the Environment (Protection) Rules, 1986; rules 4,5,7,9,10 and 11 of the Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016; rules 4,5,7,8,10,11,12,13,15,17 and 18 of the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989; and the provisions of the Public Liability Insurance Act, 1991, whichever is applicable;
3. That, he/they shall monitor his/their emission(s) and the ambient air quality from representative point regularly and shall maintain its quality in conformity with Board's standards and shall produce its proof, as and when asked for;
4. That, he/they shall submit application for consent again 30 days before the expiration of the period of consent or within 30 days from the date of receipt of this order, whichever is applicable.
5. That, they shall comply with the provisions (whichever applicable) of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and Rules and Notifications issued there under. The quality of emissions shall comply with the standards as prescribed under the Rules;
6. That, they shall comply with the conditions (whichever applicable) of the environmental clearance issued by MoEFCC, Govt. of India vide dated 27.12.2010/14.01.2020 and submit the compliance report accordingly to the Board;
7. That, they shall provide adequate air pollution control devices (APCD-ESP/Bagfilter etc) to meet the boiler stack emission etc to be within prescribed limit;
8. That, they shall comply with the standards as per notifications of MoEFCC, Govt. of India dated 02.01.2014, 07.12.2015, 07.03.2016, 28.06.2018, 19.10.2020 etc or as amended and as prescribe under the rules (whichever applicable) and point wise compliance report shall be submitted quarterly to the Board;
9. That, they shall comply with the provisions made under Notification of MoEFCC, Govt. of India vide dated 14.09.1999 and as amended as on today for utilization of fly ash generated from thermal power plant and report shall be submitted accordingly to the Board;
10. That, continuous online (24x7) monitoring system for emission should be maintained and connected to CPCB & BSPCB server for data transfer;
11. That, the unit shall install Flue Gas Desulphurization (FGD) system with 3 months to comply SO₂ emission level.

12. That, dust material/fly ash collected in APCD shall be disposed in proper manner and it shall not be disposed off on road side outside the campus. They shall submit ash disposal and management plan to the Board;
13. That, they shall provide adequate water sprinkling arrangement on ash dyke to suppress fugitive emission of dust and maintain proper safety arrangement with display board, lighting etc;
14. That, they shall maintain continuous ambient air quality monitoring system and data should be transferred to CPCB & BSPCB server;
15. That, they shall improve housekeeping of the plant area specially areas of all ETPs and submit quarterly report to the Board;
16. That, they shall provide adequate water sprinkling arrangement on the road inside the campus & surrounding roads to suppress fugitive dust emissions;
17. That, diesel generating sets (DG Sets, if any), as source of backup power should be provided with an integral acoustic enclosure and the maximum permissible sound pressure level for new D.G. set shall be 75 dB(A) at 1 meter from the enclosure surface. The height of exhaust of DG sets should be as; Exhaust Stack Height formula:- (Ht of Building in meter + $0.2\sqrt{\text{KVA}}$) m; it should be installed on pucca base with anti vibration pads;
18. That, they shall ensure all possible measures to be implemented to control noise pollution and the ambient noise levels should conform to the standards prescribed under the Noise Pollution (Regulation and Control) Rules, 2000, as amended to date viz. 75 dB(A) during day time and 70 dB(A) during night time;
19. That, they shall comply with the provisions (whichever applicable) of the Solid Waste Management Rules, 2016. Separate wet and dry bins must be provided and segregation of dry (in blue bin), wet (in green bin) and domestic hazardous waste (in black bin) must be ensure; wet waste must be composted inside the premises and dry & domestic hazardous waste shall be handed over to the local body Non-biodegradable waste and dry waste like rejected corrugated cardboard, waste paper etc may be handed over to the recyclers registered with Bihar State Pollution Control Board;
20. That, tree plantation in vacant space of the campus shall be done to develop as green belt and to control ecology of area surrounding the unit;
21. That, the environmental statement for each financial year ending the 31st Sept., in Form-V as is amended to be submitted by the proponent to the Board as prescribed in the Environment (Protection) Rules, 1986;
22. That, they shall make provisions for display of data outside main factory gate about quantity and quality of water discharge and air emission along with solid waste generated within the factory premises;
23. That, notwithstanding any thing stated above, the applicant unit shall abide by all the provisions of the environmental laws including policies and guidelines made there under;

To,

Sri Raj Kumar Pandey, CEO,
M/s Nabinagar Super Thermal Power Project, (3x660MW),
Vill-Majhiyawan, P.O.-Ankorha,
Distt.-Aurangabad


(S.Chandrasekar)
Member-Secretary



BIHAR STATE POLLUTION CONTROL BOARD

Parivesh Bhawan, N.S.B.-2, Patliputra Industrial Area, Patliputra, Patna – 800 010

Ref.no- 1840

Patna, dated- 15-6-2022

DISCHARGE CONSENT ORDER

With reference to the online application ID. 5853525, dated 26.04.2022, of M/s Nabinagar Super Thermal Power Project (3x660 MW), Vill-Majhiyawan, P.O.-Ankorha, Distt.-Aurangabad for consent under sections 25/26 of the Water (Prevention & Control of Pollution) Act, 1974, he/they is/are granted consent to bring into use his/their new/alterd/existing outlet(s) for discharge of trade effluent and/or domestic sewage thermal power plant at Vill-Majhiyawan, P.O.-Ankorha, Distt.-Aurangabad for the capacity Power Generation (3x660 MW) for the period of five years from the date of issue with the following conditions:-

- 1 That, he/they shall not make any alteration, addition, deletion or modification in the plant without the prior clearance from the Board and shall also abide by the obligations under sections 24,31 and 33A of the Water (Prevention & Control of Pollution) Act,1974 and further shall extend co-operation to the Board in performing its functions entrusted under sections 20,21,23,30 and 32 of the Act;
- 2 That, he/they shall comply with the requirements of rule14 of the Environment (Protection) Rules, 1986; rules 4,5,7,9,10 and 11 of the Hazardous and other Wastes (Management and Transboundary Movement) Rules,2016; rules 4,5,7,8,10,11,12,13,15 and 18 of the Manufacture, Storage and Import of Hazardous Chemical Rules,1989; and the provisions of the Public Liability Insurance Act,1991, whichever is applicable;
- 3 That, he/they shall monitor his/their effluent(s) regularly and maintain its quality in conformity with Board's standards and shall produce its proof, as and when asked for;
- 4 That, he/they shall submit application for consent again 30 days before the expiration of the period of consent or within 30 days from the date of receipt of this order, whichever is applicable.
- 5 That, they shall comply with the provisions (whichever applicable) of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and Rules and Notifications issued there under. The quality of final effluent shall comply with the standards as prescribed under the Rules;
- 6 That, all waste water like effluent from DM plant, boiler blow down, oil extraction system, raw water treatment plant, blow down of cooling tower water used in fly ash slurry, leakage, floor washing etc should be treated properly and re-used as far as possible to maintain zero discharge, No discharge from ash ponds shall be maintained;
- 7 That, they shall update and well maintain up to the marks all effluent treatment plant of facilities/oil extraction units including LWTP;
- 8 That, they shall comply with the conditions (whichever applicable) of the environmental clearance issued by MoEFCC, Govt. of India vide dated 27.12.2010/14.01.2020 and submit the compliance report accordingly to the Board;
- 9 That, they shall comply with the standards as per notifications of MoEFCC, Govt. of India dated 02.01.2014, 07.12.2015, 07.03.2016, 28.06.2018, 19.10.2020 etc or as amended and as prescribe under the rules (whichever applicable) and point wise compliance report shall be submitted quarterly to the Board;
- 10 That, the unit shall make effort not to discharge any trade effluent outside the plant premises (in to the Ganga River) and maintain zero liquid discharge (ZLD);
- 11 That, continuous online (24x7) monitoring system for effluent should be operative, maintained and connected to CPCB & BSPCB server for data transfer;
- 12 That, they shall re-use treated effluent to maintain Zero Discharge from the plant premises and water consumption shall be reduced by adopting 3 R's (reduce, reuse and recycle) concept;

- 13 That, they shall withdraw water from Sone River as per agreement with the competent authority and a report shall be submitted to the Board on quarterly basis;
- 14 That, daily water withdrawal, consumption, power generation and average PLF shall be submitted. The specific water consumption per MW hr shall be calculated based on water consumption and power generation and to be submitted in the compliance report.
- 15 That, water meter conforming to ISO standards shall be installed at the inlet point of water uptake as well as at all necessary points to monitor the daily water consumption (including water consumption in fly ash slurry management) and a log book shall be maintained in this regard. Use of water efficient devices/fixtures and appliance should be promoted;
- 16 That, they shall have to provide suitable and separate drainage system for sewer/other waste water and storm water. No sewage or untreated effluent would be discharged through storm water drains. A coloured drainage map shall be submitted to the Board within 3 months time;
- 17 That, they shall adopt rain water harvesting as provisions made by the local bye-law. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per CPCB guideline. Ensure proper management of storm water to optimum use and allow it to be by-passed during times of heavy rain to avoid any flooding problem inside the campus. Submit an action plan of well-designed rain water harvesting system with storm water management.
- 18 That, the sewage shall be treated in Sewage Treatment Plant (STP) and after treatment the water will be recycled for flushing of toilets, floor washing/cleaning, gardening/horticulture etc;
- 19 That, the quality of treated sewage of STP shall have to comply with the following standards (whichever applicable);

Sl No.	Parameter	Limiting concentration in mg/l, except pH and Fecal Coliform
1	pH	5.5-9.0
2	BOD	10
3	Total Suspended Solids (TSS)	20
4	COD	50
5	Nitrogen-Total	10
6	Phosphorus-Total for discharge into Ponds, Lakes	1.0
7	Fecal Coliform (FC) (Most Probable Number per 100 milliliter, MPN/100 ml)	Desirable-100 Permissible-230

- 20 That, sludge generated from the STP will be dried and later it will be used as manure in agriculture and for green belt development/gardening/horticulture;
- 21 That, they shall comply with the provisions (whichever applicable) of the Solid Waste Management Rules, 2016. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with authorized recyclers. Organic waste compost/vermiculture pit with a minimum capacity of 0.3 kg/person per day must be installed;
- 22 That, segregation of dry (in blue bin), wet (in green bin) and domestic hazardous waste (in black bin) must be ensure; wet waste must be composted inside the premises and dry & domestic hazardous waste shall be handed over to the local body;
- 23 That, non-biodegradable waste and dry waste like rejected corrugated cardboard, waste paper etc may be handed over to the recyclers registered with Bihar State Pollution Control Board;

- 24 That, they shall comply with the provisions (whichever applicable) of the E-Waste (Management) Rules, 2016. The e-waste generated shall be disposed off by handing over to the authorized collection centre and a record shall be maintained;
- 25 That, they shall comply with the provisions (whichever applicable) of the Plastic Waste Management Rules, 2016. They will make effort to discourage the use of plastics so that minimum generation of plastics wastes to be taken place;
- 26 That, the environmental statement for each financial year ending the 31st Sept., in Form-V as is amended to be submitted by the proponent to the Board as prescribed in the Environment (Protection) Rules, 1986;
- 27 That, they shall make provisions for display of data outside main factory gate about quantity and quality of water discharge and air emission along with solid waste generated within the factory premises;
- 28 That, compliance report of above consent conditions shall be submitted quarterly to the Board; and
- 29 That, notwithstanding any thing stated above, the applicant unit shall abide by all the provisions of the environmental laws including policies and guidelines made there under;

To,

Sri Raj Kumar Pandey, CEO,
M/s Nabinagar Super Thermal Power Project, (3x660MW),
Vill-Majhiyawan, P.O.-Ankorha,
Distt.-Aurangabad

 15/6/22
(S. Chandrasekar)
Member Secretary