DIRECTIONS

Regd. Post With Ack Due

Order No. 05/APPCCB/HH-II/TF-NLR/2017- Date: 12.12.2017


2. Complaint received on 08.07.2016 from the near by villagers against Thermal Power Plants on Air Pollution Problems.
6. Representation received from Sri Kakani Govardhan Reddy, Hon’ble MLA, Sarvpalli Constituency, SPSR Nellore District on behalf of the villagers of Mandapam, Varakavipudi, Pynapuram, Nelatur, Musunuravipalem, Pidapatapur to submit representation against the thermal power plants operating in Muthukur & TP Gudur Mandal, Nellore District on 07.06.2017 and also received through the District Collector, Nellore on 19.06.2017:
7. A press clipping published in Deccan Chronicle daily news paper dated 08.08.2017 under caption of “PCB comes under fire for ignoring pollution” was received by EE, RO, Nellore from the District Collector, Nellore on 27.06.2017

WHEREAS you are operating industry in the name & style of M/s. Sri Damodaram Sanjeevaiah Thermal Power Station of M/s. Andhra Pradesh Power Development Co. Ltd., Nelatur & Pynampuram Villages, Muthukur Mandal, Nellore District and is engaged in Electric Power Generation using Blended coal as fuel (Indian washed coal 70% + imported coal 30%) with maximum sulphur content of 0.62% and maximum ash content of 28.3% – 1600 MW (2 x 800 MW).

WHEREAS vide references 1st cited, the Board issued certain directions to the industry on 04.04.2016 for non-compliance of Board directions.

WHEREAS vide reference 2nd cited, public complaints received from near by Villages of Chalivendra, Thamminapatnam and Venkannapalem Kotha Harijanawada, Muthukuru Mandal, Nellore District on 08.07.2016 against the Thermal Power Plants causing by air pollution.

WHEREAS vide reference 3rd cited, the Board has reviewed the status of the industry before External Advisory Committee (Task Force) meeting held on 27.08.2016 and committee recommended to issue certain directions. Accordingly, the Board has issued specific directions to the industry on 09.09.2016.

WHEREAS vide reference 4th cited, the Board issued combined CFO & HWA Order to the industry on 18.02.2017 duly stipulating necessary standards and conditions with a validity period upto 31.03.2022.

WHEREAS vide reference 5th cited, the Board has reviewed the status of pollution control measures taken by the industry before External Advisory Committee (Task Force) meeting held on 03.03.2017 and committee recommended to issue certain directions. Accordingly, the Board has issued the certain directions to the industry on 13.04.2017.

WHEREAS vide reference 6th cited, Sri Kakani Govardhan Reddy, Hon’ble MLA, Sarvpalli
Constituency, SPSR Nellore District has personally visited RO, Nellore along with villagers of Mandapam, Varakevipudi, Pynapuram, Nelatur, Musuruviripalem, Pidapatilur to submit representation against the thermal power plants operating in Muthukur & TP Gudur Mandal viz., M/s. Thermal Power Tech Corporation India Ltd., (TPCIL), M/s. Sembcorp Gayatri Power Limited (SGPL) & M/s. Sri Damodaram Sanjeevaliah Thermal Power Station of M/s. Andhra Pradesh Power Development Co. Ltd., (A.P. Genco), are affecting the surrounding environment & damaging their crops due to air pollution & emitting mist from cooling towers, which contains saltly in nature and requested to take necessary action on the complaint matter.

WHEREAS vide reference 7th cited, a press clipping published in Deccan Chronicle daily newspaper dated 08.06.2017 under caption of “PCB comes under fire for ignoring pollution” was received by EE, RO, Nellore from the District Collector, Nellore on 27.06.2017.

WHEREAS, the Board has issued certain directions vide reference 8th cited to the industry on 21.07.2017 in connection with complaint received against industry and non-compliance of Board directions.

WHEREAS the officials Zonal Office, Vijayawada has inspected the industry on 06.10.2017 to 09.10.2017 vide reference 9th cited and observed the following violations:

1. The Board Officials carried out stack monitoring and found the concentration of Particular matter as 72mg/Nm³ against the standard of 50mg/Nm³. The concentration of Sulphur Dioxide (SO₂) is in the range of 1000-1200mg/Nm³ against 200 mg/Nm³ and NOx is in range of 300-400 mg/Nm³ against 300 mg/Nm³. This industry is not meeting the standards prescribed by the Board.

2. Ambient Air Quality Monitoring was also carried out within the premises of the industry. The particulate matter (PM₁₀) in ambient air was found to be 142 µg/m³ (7 PM to 3 AM), 104 µg/m³ (3AM to 11 PM), 128 µg/m³ (11 PM to 7 AM) and 24 hours average is 124.6 µg/m³ against the standard of 100 µg/m³.

3. The industry is not operating the STP for treatment of domestic waste water of 400 KLD and discharging the untreated domestic waste water into the sea directly.

4. The industry is not developing thick green belt in an area of 420 acres all along the periphery of the industry, ash pond area and vacant places in the industry premises, at present the industry is developed 225 acres of green belt as against 420acres.

5. The industry is not complyng with reduction of the specific water consumption up to maximum of 3.5m³/MWhr for cooling tower, at present it is 15.8 m³/MWhr.

6. The industry is not operating all the sprinklers to keep coal in wet condition and there is 20 mtrs gap in between each sprinkle on each coal heap.

7. The industry has provided only 2 cameras at coal yards and not provided at coal crusher, no one is monitoring the sprinkling system through web cameras.

8. The industry is not provided separate flow meter at all sections to record domestic wastewater generation, treatment and disposal and not provided water separate flow meter to record water utilized for dust suppression measures.

9. The industry is not provided wind barriers to the coal yard so as to avoid dust emissions on the surrounding villages during air borne.

10. The industry is not adopted soil reclamation methods, i) the industry has not achieved 100% fly ash utilization as per the guidelines stipulated in Fly Ash Notification, at present it has achieved only 50%.

11. The industry is not implementing the CSR activities on surrounding villages in consultation with District Administration.

12. The industry has not provided online CAAQM station at Nelaturu Village and not connected to APPCB website.

13. The industry has provided 2Nos. of online continuous stack monitoring equipment to the boilers, they were not connected to the CPCB/APPCB websites, xv) though, industry has provided 4Nos. of CAAQM stations they were not connected to the CPCB / APPCB websites.

14. The industry is not provided inter locking for air pollution control equipment provided for super critical boilers and fuel feeding system.

15. The ash pond is totally filled with ash and at present the ash pond is in dry condition and may cause fugitive dust emissions during wind blows.

Whereas legal hearing was conducted before the External Advisory Committee (Task Force) Meeting of A.P. Pollution Control Board on 16.11.2017. The representatives of the industry attended the legal hearing and complainants did not attend the legal hearing. The committee noted that the Board has received several complaints from the surrounding villagers of Thermal
Power Plants on pollution problems viz. air pollution due to stack emissions, fugitive dust emissions, and waste water discharges from ash pond, ground water depletion and on thermal radiation impact on the nearby human habitations, which is being felt. The Committee also noted that the Thermal Power Plant are not achieving the Sulphur Dioxide (SO$_2$) and Oxides of Nitrogen (NO$_x$) standards and not meeting the Ambient Air Quality Standards stipulated by the Board. The EE, RO, Nellore has informed that school teachers working in the school nearby villages, have also complained that soot is being deposited on school building particularly during March and August months and sought action against the power plants. He has also informed that all thermal power plants have failed to achieve 100% utilization of ash as per fly ash notification dt.25/05/2015 and not operating water sprinklers system continuously at coal handling areas. It was further informed that the Thermal Power Plants are not operating the ETP & STP for treatment of DM Plant regeneration, Boiler Blow Down, Domestic Plant wastewater and discharging the untreated wastewater into the sea directly. All thermal Power Plants have informed that they provided water sprinklers at coal handling storage areas and continuously operating water sprinklers. It was informed that they provided web cameras at coal yards and coal crusher and provided wind barriers around coal yard, so as to avoid fugitive dust emissions on the surrounding villages. All thermal Power Plants have also informed that they implemented CSR activities at surrounding villages in consultation with District Administration. They will develop the green belt in the coming monsoon season. The Committee has instructed all Thermal Power Plants to achieve the Sulphur Dioxide (SO$_2$) and Oxides of Nitrogen (NO$_x$) standards within one month and shall meet the Ambient Air Quality Standards stipulated by the Board.

The Committee, after detailed discussions, recommended to issue certain directions. The Board hereby issue the following directions under Sec.33 (A) of Water (Prevention and Control of Pollution) Amendment Act, 1988 and under Sec.31 (A) of Air (Prevention & Control of Pollution) Amendment Act, 1987:

1. The industry shall operate the water sprinkling system around coal stacking yards and crusher for dust suppression and containment effectively. They shall provide web cameras to continuously monitor the operation and effective area of sprinklers within one month.
2. The industry shall provide wind barriers after the green belt buffer around coal stock yard to prevent fugitive dust emissions within one month.
3. The industry shall operate the STP for treatment of domestic waste water and the treated water shall be utilized for onland irrigation / dust suppression only subject to the compliance of prescribed discharge standards.
4. The industry shall provide flow meters with totalizer at all sections within one month and shall maintain records and to submit consolidate records to ZO, Vijayawada and RO, Nellore every month.
5. The industry shall adopt soil reclamation methods and to select specific type of tree species, which are endemic to local ecological conditions for the sustenance and growth. The progress in this regard shall be reported to RO, Nellore periodically.
6. The industry shall expedite ash utilization as per the guidelines stipulated in Fly Ash Notification.
7. The industry shall implement the CSR activities at surrounding villages in consultation with District Administration.
8. The industry shall provide online CAAQM station at Nelaturu Village in co-ordination with other plants operation of under surroundings and the same shall connected to APPCB website within three months.
9. The industry shall provide interlocking system for air pollution control equipment and boiler feed to ensure that coal feeding will be stopped automatically in the case pollution meters are exceeding the prescribed standards.
10. The industry shall achieve prescribed emission standards for the parameters of the Sulphur Dioxide (SO$_2$) and Oxides of Nitrogen (NO$_x$) standards within one month.
11. The industry shall carry out detailed study to identify all the major and minor sources contributing for fugitive dust emissions at plant premises and shall implement requisite dust containment / suppression measures at sources. The details shall be furnished to the Board within one month along with corrective measures planned / proposed to implement in specific time limit.
12. The industry shall develop thick green belt in the industry premises as mentioned in the CFE & CFO order within six months.
13. The industry shall ensure continuous compliance of conditions issued in the CFO and HWA order.

The implementation progress of the above directions shall be furnished periodically to ZO, Vijayawada and RO, Nellore for every three months.
You are hereby directed to note that, should you violate any one of the directions mentioned above, your unit will be closed under Sec.33 (A) of Water (Prevention & Control of Pollution) Amendment Act, 1986 and Sec.31 (A) of Air (Prevention & Control of Pollution) Amendment Act, 1987 without any further notice, in the interest of Public Health and Environment.

This Order comes into effect from today i.e., **12.12.2017**.

To
M/s. Sri Damodaram Sanjeevaiah Thermal Power Station
of M/s. Andhra Pradesh Power Development Co. Ltd.,
Nelatur & Pynampuram Villages,
Muthukur Mandal,
Nellore District - 524344.

Copy to:
1. The Joint Chief Environmental Engineer, Zonal Office, Vijayawada for information and necessary action.
2. The Environmental Engineer, Regional Office, Nellore for information and necessary action.

// T.C.R.B.O. //

JOINT CHIEF ENVIRONMENTAL ENGINEER
UH-II