ANDHRA PRADESH POLLUTION CONTROL BOARD  
D.No.33-26-14, D/2, Near Sunrise Hospital, Pushpa Hotel Centre, 
Chalamalavari street, Kasturibapet, Vijayawada – 520 010 

Phone: 0866-2436200  
Grams : Kalusua Nivarana  
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Reqd. Post With Ack Due

Order No.528/APPCCB/II-1TF/KDP/2019-  

Date: 05.07.2019

DIRECTIONS

Sub:  

Ref:
2. Board officials inspected the industry on 23.11.2016 under randomized risk based inspections.
4. The Committee inspected the industry & surroundings on 17.01.2019.
5. External Advisory Committee (Task Force) meeting held on 14.06.2019.


WHEREAS vide references 1st cited, the Board issued Consent for Operation and Hazardous Waste Authorization to the industry on 19.03.2016, which is valid upto 30.09.2020.

WHEREAS vide references 2nd cited, the Board officials inspected the industry on 23.11.2016 under randomized risk based inspections and furnished report.

WHEREAS vide references 3rd cited, reviewed the status of pollution control measures taken by the industry before the External Advisory Committee (Task Force) Meeting on 03.03.2017 and issued directions to the industry on 02.04.2017 for non-compliance of Board directions and consent conditions.

WHEREAS vide references 4th cited, the Committee inspected the industry on 17.01.2019 to verify the compliance of Fly Ash notification in light of Hon’ble NGT orders dt.20.11.2018 and O.A.No.77/2014, 499/2014 and 102/2014 and made following observations:

- The water requirement from the plant & township being met from Brahmansagar reservoir (about 70 Km away from the plant). The industry has provided flow meters at some locations internally in the 3 stages of the TPP viz., raw water treated at RO plant, used for utilities (at stage – 2 & 3) and Domestic purposes. But, there was no meter/s is in place to ascertain total quantity of water draw for the plant operations.
- The fresh water consumption is exceeding the consented hydraulic load of about 69,264 KLD as per the records maintained.
- The industry is generating wastewater from ash pond, cooling tower blow down, boiler blow down, DM Plant return wash & Township.
- The industry has been disposing bottom ash and unutilized fly ash to ash pond. The wastewater from the decanter wells of ash pond is partially recycled and remaining discharged into irrigation canal (Kalamala vagu) passing at eastern side of the plant. The representatives accompanied the inspection informed that the water from the ash pond is supplied to farmers on their demand for agriculture cultivation at the downstream of the plant.
- No flow meters are in place to quantify the actual quantity recycling and discharging into irrigation canal.
- The industry is having 3 stages established at different years and consisting 5 units of each 210 MW of electricity. All the 5 units are having boilers of 690 TPH capacity (PF
boilers) each with bi-flue stack for stage - I & II. The 3rd stage has single flue for dispersion of vent gases from the Boiler. All the boilers are provided with ESP to control emissions of particulate matter in the vent gases. The industry has provided bag filters at transfer points and ash silos. The industry has provide 6 x 800 m³ capacity + 3 x 1200 m³ silos for collection & transit storage of ash. The bottom ash is pumped to ash pond along with unutilized fly ash.

- The capacity of the M/s.RTPP is 5 x 210 MW + 1 x 600 MW. At present only 2 x 210 MW units are in operation due to low demand.
  
i) The total Ash generated in the financial year 2018-19 (upto November, 2018) is 11,18,658 MT.

ii) The total ash disposed in the financial year 2018-19 (upto November, 2018) is 10,58,286 MT.

iii) The total ash utilization in the financial year 2018-19 (upto November, 2018) is 94.60%.

- Huge quantity of ash is accumulated in the ash pond since M/s.RTPP was established in the year 1991-92. The ash quantity available upto the end of November, 2018 is 1,57,58,000 MT. The representatives of M/s.RTPP informed that they will dispose the accumulated ash in the ash pond according to the demand and they informed that it will take time to dispose completely the accumulated ash in the pond.

- M/s.RTPP is supposed to pay Rs.5.0 Crores towards cost of damages for failing to dispose 100% fly ash up to 31.12.2017, as per orders dt.20.11.2018 of NGT. But, M/s.RTPP has not paid Rs.5.0 Crores towards cost of damages so far.

WHEREAS vide references 5th cited, legal hearing was conducted before the External Advisory Committee (Task Force) of A.P. Pollution Control Board on 14.06.2019. The representatives of the industry attended the legal hearing. The Committee has noted that the Board has constituted Zone wise Committee to inspect Thermal Power Plants to verify the compliance of Fly Ash notification by Thermal Power Plant in the light of Hon'ble NGT orders dt.20.11.2018 and O.A.No.77/2014, 499/2014 and 102/2014. The committee noted the non-compliance of CFO order conditions and the directions of the Board. The representative of the industry informed that dry fly ash facilities have been installed to achieve 100% dry ash utilization by supplying dry fly ash to Brick and Cement Industries. During 2018-19 (From April-18 to March-19), RTPP has achieved around 98% ash utilization. They informed that 1 No. of CAAQMS is in operation since 2012. 2 No.s of CAAQMS procured. Material placed and erection & Commissioning of CAAQMS will be taken up shortly. They have already provided flow meters at various locations at the outlet of ETP & STP. The technical problem of flow meter at the outlet of ETP will be rectified shortly. They will provide flow meters at the inlet of ETP & STP also. The JCEE, ZO, Kurnool has informed that M/s.RTPP is supposed to pay Rs.5.0 Crores towards cost of damages for failing to dispose 100% fly ash up to 31.12.2017, as per orders dt.20.11.2018 of NGT. But, M/s.RTPP has not paid Rs.5.0 Crores towards cost of damages so far. It was informed that 1.5 Million Tons of ash stored in the industry premises.

After detailed review, the Committee recommended to issue certain directions. Hence the Board is hereby issued the following orders 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 upgrade the air pollution control equipment attached to the boilers of Unit-III & Unit-IV so as to achieve SPM standard of 50 mg/Nm³ as per the MoEF &CC notification dt.07.12.2015.

2. The industry shall restrict specific water consumption less than 3.5 m³/MW as per the MoEF &CC notification dt.07.12.2015.

3. The industry shall calibrate all the online pollution monitoring equipment for continues display of all the parameters.

4. The industry shall provide flow meters to quantify the actual quantity of recycling the ash pond seepage water.

5. The industry shall provide web cameras at coal yards and coal crusher area for monitoring the sprinkling system through web cameras.

6. The industry shall treat the decanted water generated from ash pond for removal of heavy metals before disposal.

7. The industry shall achieve 100% of fly ash utilization.

8. The industry shall install 2 CAAQMs as per CPCB directions within 3 months.

9. The industry shall not discharge un-treated decanter water generated from the ash pond into the nearby irrigation canal.
This order is issued 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.

You are hereby directed to note that, should you violate any one of the directions mentioned above, action will be initiated under Sec.33(A) of Water (Prevention & Control of Pollution) Amendment Act, 1988 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., 05.07.2019.

Sd/-
CHAIRMAN

To
M/s. Rayalaseema Thermal Power Plant (RTPP)
V.V. Reddy Nagar,
YSR Kadapa District-516312.

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

//T.C.F.B.O.//

JOINT CHIEF ENVIRONMENTAL ENGINEER

UH-II