



CONSENT ORDER FOR ESTABLISHMENT

Order No. 410 /APPCB/CFE/RO-VSP/HO/2017

Dt: 20.03.2017

Sub: APPCB – CFE - M/s. Jindal Urban Waste Management (Visakhapatnam) Limited, Sy. Nos. 410 & 415, Kapuluppada (V) Bheemunipatnam (M), Visakhapatnam District – Consent for Establishment (CFE) of the Board under Sec.25 of Water (P & C of P) Act, 1974 and Under Sec.21 of Air (P&C of P) Act, 1981 - Issued - Reg.

- Ref:
1. Industry's Ir. dt. 18.02.2017 and 20.02.2017.
 2. Industry's revised application received through Single Desk received on 20.02.2017.
 3. R.O's inspection report dt. 23.02.2017.
 4. CFE Committee meeting held on 09.03.2017.
 5. R.O. mail dt. 14.03.2017.

1. In the reference 2nd cited, a revised application was submitted to the Board seeking Consent for Establishment (CFE) for **MSW based power plant** with installed capacity as mentioned below, with a project cost of Rs. 172.935 Crores (Rs. 172.92 crores + Rs. 0.015 crore).

S.No	Name of the Products and By-products	As per CFE order 11.01.2017	As per Revised CFE Application
	Products		
1.	Electricity (Fuel: MSW)	15 MWH	15 MWH / 360 MW/day
	By- products		
1.	Chlorinated Hard Plastics	16.2 TPD	6.50 TPD
2.	Metal	----	0.32 TPD
3.	Brick and Paver blocks	----	20000 Nos

2. As per the application, the above activity is to be located at Sy. Nos. 410 & 415, Kapuluppada (V) Bheemunipatnam (M), Visakhapatnam District in an area of 69120.30 Sq. m. (17.08 Acres).
3. The above site was inspected by the Asst, Environmental Engineer-III, Regional Office, Visakhapatnam, A.P Pollution Control Board on 22.02.2017 and observed that the site is surrounded by

North : Hillock
South : Dumping Yard of GVMC
East : Dumping Yard of GVMC
West : Maridi Eco Industries (Andhra) Pvt. Ltd.,

4. The Board, after careful scrutiny of the application, verification report of Regional Officer and recommendations of the CFE Committee, hereby issues **CONSENT FOR ESTABLISHMENT** to your activity Under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to produce products as mentioned at para (1) only.**
5. This Consent Order now issued is subject to the conditions mentioned in Schedule 'A' and Schedule 'B'.

6. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.

7. This order is valid for period of 7 years from the date of issue.

Encl: Schedule 'A'
Schedule 'B'

MEMBER SECRETARY

To

**M/s. Jindal Urban Waste Management (Visakhapatnam) Limited,
Jindal ITF Center, 28, Shivaji Marg,
Delhi Industrial Area,
WEST DELHI-110015.
megha.gupta@jindalitif.com**

Copy to: 1. The JCEE, Z.O., Visakhapatnam for information and necessary action.
2. The E.E., R.O, Visakhapatnam for information and necessary action.

SCHEDULE - A

1. The proponent shall obtain Consents for Operation (CFO) from APPCB, as required Under Sec.25/26 of the Water (P&C of P) Act, 1974 and under sec. 21/22 of the Air (P&C of P) Act, 1981, before commencement of the activity.
2. Compensation is to be paid for any environmental damage caused by it, as fixed by the Collector and District Magistrate as civil liability.
3. Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas. The industry shall maintain a good housekeeping. All pipe valves, sewers, drains shall be leak proof. Dyke walls shall be constructed around storage of chemicals.
4. The rules and regulations notified by Ministry of Law and Justice, GOI, regarding the Public Liability Insurance Act, 1991 shall be followed.

SCHEDULE - B

Water:

1. The source of water is the treated waste water from STP being operated by GVMC at Marikivalasa (V), Visakhapatnam and the maximum permitted water consumption is as following:

Sl.No	Purpose	Quantity
1.	Cooling tower make-up	332.14 KLD
2.	Boiler make-up	37.86 KLD
3.	Domestic (Plant)	3.255 KLD(Recycled)
4.	Process(Bricks Plant)	30.00 KLD(Recycled)
5.	Washings (Floor & Road washings)	6.975 KLD(Recycled)
6.	Fire fighting makeup	65.10 KLD (Recycled)
7.	Sludge Thickener	34.00 KLD
8.	Bottom ash cooling	75.00 KLD
9.	Green belt development	21.00 KLD
	Total (Fresh +Recycled)	605.33KLD

2. The maximum waste water generation shall not exceed the following:

Sl.No	Source	Quantity
1.	Cooling tower bleed of and SSF rejects	69.71 KLD
2.	Boiler blow down	21.12 KLD
3.	Domestic (Plant)	3.00 KLD
4.	Washings (Floor & road washings)	6.00 KLD
5.	DM Plant regeneration	14.50 KLD
	Total	114.33 KLD

Treatment & Disposal

Source of effluent	Treatment	Mode of final disposal
Leachate	350 KLD Leachate Treatment Plant (LTP) consists of Influent Leachate storage tank, mesh screens, (Moving bed bio reactor) MBBR, Secondary clarifier, Carbon filters & Sand Filters	re-circulated by spraying on composting heap to maintain sufficient moisture content.
Cooling tower bleed off, SSF rejects, Boiler blow down, DM Plant regeneration	Neutralization pit	used for firefighting system makeup, Brick plant and Domestic
Washings (Floor & road washings)	-----	Diverted to MSW storage pits
Domestic	Septic tank	Soak pit
Leachate (as mentioned in the EMP)	Influent Leachate storage tank; Mesh Screens; Oil & Grease Trap Moving Bed Bio film Reactor; Secondary clarifier; Sump Tank; Carbon filter and Sand Filter; Sludge drying beds.	Re-circulated for ash quenching.

3. The effluents generated from the cooling shall be treated to the surface water standards and domestic waste water shall be treated to the on land for irrigation standards, as stipulated under Schedule VI of Environment (Protection) Rules, 1986, notified by Ministry of Environment and Forests, Government of India vide G.S.R.422 (E), dt.19.05.1993 and its amendments thereof.
4. The proponent shall regularly monitor the ground water quality for mercury and other heavy metals (Hg, Cr, As, Pb, etc) around the Municipal Solid Waste Landfill including surface water bodies in the vicinity. The monitoring data shall be compared with baseline data and requisite measures shall be implemented to prevent any kind of direct/ indirect contamination of water resources in the project surroundings.
5. Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned below.
 - a) Industrial cooling, boiler feed.
 - b) Domestic purposes.
 - c) Processing, whereby water gets polluted and pollutants are easily bio- degradable.
 - d) Processing, whereby water gets polluted and the pollutants are not easily bio-degradable.
6. The industry shall provide digital flow meters with totalisers at inlet of Leachate treatment system for the purpose of measuring quantity of effluents.

Air:

7. The Air pollution Control equipment shall be installed along with the commissioning of the activity and shall comply with the following for controlling air pollution.

I) Emissions from fuel burning			
Sl. No	Details of Stack	Stack-1	Stack-2
a)	Attached to:	Boilers	D.G.Set
b)	Capacity	2nos X 48 TPH	1 x 1500 KVA
c)	Name of the Fuel :	Municipal solid wastes	HSD
d)	Stack height above ground (m.)	65 m (RCC Common stock)	7.75 m above roof
e)	Air Pollution Control Equipment:	Turbo reactor with lime injection followed by the Bag House with activated carbon coating bags (For each boiler)	Acoustic enclosures

8. Continuous online monitoring equipment shall be provided for the stack attached to Boiler for Sox, NOx, PM2.5 and PM10. Data thus generated shall be connected to CPCB and APPCB websites for display as per CPCB directions dt.05.02.2014.
9. Regular monitoring of ground level concentration of SO2, NOx, PM10 & PM2.5 shall be carried out in the impact and buffer zone and records shall be maintained. If at any stage these levels are found to exceed the prescribed limits, requisite restorative measures shall be implemented immediately. The location of the monitoring stations shall be fixed in consultation with the Regional Officer of the Board. Consolidated daily reports shall be submitted to the concerned Regional Officer on monthly basis.
10. The proponent shall ensure compliance of the National Ambient Air quality standards notified by MoEF, GoI vide notification No. GSR 826(E), dated. 16.11.2009 during construction and regular operational phase of the project.

11. The industry shall take following mitigation measures to control fugitive emissions during construction and operational stage:
 - Vehicles shall be managed to avoid traffic congestions and shall provide parking facilities.
 - Mechanical water sprinkling shall be provided on roads and at dusty construction material storage areas, for suppression of dust. Mechanized handling equipment shall be used for loading & unloading operations.
 - Vehicles shall comply with emission standards and shall have valid PUC certification.
 - Procurement of machinery / construction equipment shall be in accordance to the specifications confirming to source noise levels of 85 dB(A).
12. In plant control measures for dust suppression like black top / concrete roads, Water Sprinkling system shall be provided for controlling fugitive emissions from all vulnerable sources.
13. All the dusty raw materials and solid waste shall be accommodated under roof shed with required safety ventilation as approved by the competent authorities. There shall not by any open piling.
14. A sampling port with removable dummy of not less than 15 cm diameter shall be provided in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.
15. The generator shall be installed in a closed area with a silencer and suitable noise absorption systems. The ambient noise level shall not exceed 75 dB(A) during day time and 70 dB(A) during night time.
16. The MSW shall be stored in a closed area with a negative pressure with the air flow routed through the boiler to prevent odour as mentioned in the EMP report.

Solid Waste:

17. The proponent shall comply with the following:

S. No	Solid / Hazardous waste	Quantity	Mode of final disposal
1.	Used Oil / Waste Lubrication Oil	0.5 KL/Year	Sold out to authorized recyclers / re processors
2.	Boiler Ash	Fly ash: 32.05 TPD	Disposed to Brick manufacturing units.
		Bottom Ash: 128.16 TPD	Disposed to Scientific land fill facility.
3.	Used Lead Acid Batteries	4nos/Annum	Returned to dealers on buy back system

18. Adequate safety measures shall be provided in the plant area to check / minimize spontaneous fires in MSW storage yard, especially during summer season.
19. The proponent shall install silo of capacity (200 tons) with breather bags to collect and store ash and its distribution.
20. The following rules and regulations notified by the MoE&F, Govt shall be implemented.
 - a) Hazardous waste and other wastes (Management and Transboundary Movement) Rules, 2016.
 - b) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
 - c) Fly Ash Notification, 2016.
 - d) Batteries (Management & Handling) Rules, 2010.

- e) E-Waste (Management) Rules, 2016.
- f) Construction and Demolition waste Management Rules, 2016.
- g) **Solid Waste Management Rules, 2016.**

Other Conditions:

21. The CFE order No. 410 /APPCB/CFE/RO-VSP/HO/2017, dt. 11.01.2017 is cancelled.
22. The industry shall comply with the following:
 - The proponent shall start construction work of the project after obtaining Authorization under Solid Waste Management Rules, 2016 for establishment of storage, handling and management of Municipal Solid Waste.
 - The project proponent is informed to take action as per the provisions of the EIA Notification, 2006 and its amendments thereof, with regard to the Environmental Clearance (EC), for the required components.
23. Green belt shall be developed all along the boundary & vacant spaces with tall growing trees with good canopy and it shall not be less than 33% of the total area.
24. The proponent shall ensure that there shall not be any change in the process technology, source & composition of raw materials and scope of working without prior approval from the Board.
25. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and attract action under the provisions of relevant pollution control Acts.
26. Notwithstanding anything contained in this conditional consent, the Board hereby reserves its right and power under Sec.27(2) of Water (Prevention and Control of Pollution) Act, 1974 and under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to revoke the order, review any or all the conditions imposed herein and to make such alternation as deemed fit and stipulate any additional conditions or revoke the order in the interest of environment protection.
27. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules, 1982, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

MEMBER SECRETARY

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