



ANDHRA PRADESH POLLUTION CONTROL BOARD
PARYAVARANA BHAVAN, A-3, INDUSTRIAL ESTATE,
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**RED CATEGORY
CONSENT & AUTHORISATION ORDER
BY REGISTERED POST WITH ACKNOWLEDGEMENT DUE**

Consent Order No : APPCB/KNL/TPT/103/HO/CFO/2012-3301

Date: 23.10.2012

Consent Order for Existing/New or altered discharge of sewage and/or trade effluents/outlet under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and amendments thereof, Operation of the plant under section 21 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Authorisation / Renewal of Authorisation under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundary, Movement) Rules 2008 & Amendments thereof.

CONSENT is hereby granted under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974, under section 21 of Air (Prevention & Control of Pollution) Act 1981 and Authorisation under the provisions of HW (MH & TM) Rules (hereinafter referred to as 'the Acts', 'the Rules') and the rules and orders made thereunder to

**M/s. Uranium Corporation of India Limited.,
(Formerly M/s. Tummalapalle Uranium Project),
(A Govt. of India Enterprise),
At Velpula, Medipentia(V) and Kotala(V),
Vemula(M),
Kadapa District-516349
E mail: nmbahl1@yahoo.co.in**

(hereinafter referred to as 'the Applicant') authorizing to operate the industrial plant to discharge the effluents from the outlets and the quantity of Emissions per hour from the chimneys as detailed below.

i) Out lets for discharge of effluents:

| Outlet No. | Outlet Description | Max Daily Discharge KLD | Point of Disposal |
|------------|---|-------------------------|---|
| 1. | Trade effluent, workshop & vehicle washings (ore processing - 2000 KLD + Tailing slurry - 864 KLD + Drinking + Pit Head bath - 80 KLD + Equipment washing - 40 KLD) | 2984 | Recycling in to the process after necessary treatment in ETP. |
| 2. | Domestic & Township sections | 430 | Greenbelt development after treatment in STP. |

ii) Emissions from chimneys:

| Chimney No. | Description of Chimney | Quantity of Emissions at peak flow |
|-------------|--|------------------------------------|
| 1. | Attached to 2x15 TPH Oil fired boilers | -- |
| 2. | Primary crushing 200 TPH & Building | -- |
| 3. | Fine crushing 200 TPH & Building | -- |
| 4. | Screening house | -- |
| 5. | 2x68 TPH Ball mills & Mill House | -- |
| 6. | 500 T Lime House | -- |
| 7. | 500 T Silo Sodium Sulphate | -- |
| 8. | 375 x 2 bins Sodium carbonate | -- |
| 9. | 375 x 2 bins Sodium Bicarbonate Building | -- |
| 10. | Product packing Area | -- |
| 11. | Leach pulp filters 8-nos -115 m2 | -- |
| 12. | Autoclave – 680 m3 x2 no.s | -- |

iii) HAZARDOUS WASTE AUTHORISATION (FORM – 2) [See rule 5 (4)]

- Number of Authorisation and date of issue CDP -30 /PCB/HWM/2012 Dt: 23.10.2012.
- M/s. Uranium Corporation of India Ltd., (Tummalapalle Uranium), Tummalapalle (V), Vemula (M), Kadapa District is hereby granted an authorisation to operate a facility for collection, reception, storage, transport and disposal of the following wastes with quantities as below:

• HAZARDOUS WASTES WITH DISPOSAL OPTION:

| S. No. | Name of the Hazardous Waste | Stream | Quantity of Hazardous Waste | Disposal Option |
|--------|----------------------------------|----------------------|-----------------------------|--|
| 1. | Tailings | -- | 9,00,000 TPA | Tailing Pond constructed as per condition No.15 of Schedule – B of CFE Order dt. 11.04.2007 – Once tailings pond is filled, tailings shall be covered with a layer of soil and greenbelt shall be developed over the same. |
| 2. | Calcium Carbonate | 34.3 of Schedule – I | 20,200 TPA | |
| 3. | Raw Water treatment Plant Sludge | 34.3 of Schedule – I | 120 TPA | |
| 4. | Filter media | 34.3 of Schedule – I | 24 TPA | |
| 5. | ETP Sludge | 34.3 of Schedule-I | 300 TPA | |

This consent order is valid for manufacture the following products along with quantities only.

| S.No | Product | Quantity |
|-------------------|--|--------------------------------------|
| 1. | Mining of Uranium Ore (Underground Captive Mines) Full depth of Ore body-275 m Life of mine – 30 Years | 9,00,000 Tonnes per Annum (3000 TPD) |
| 2. | Sodium Di Uranate | 256.4 Tonnes per Annum |
| By product | | |
| 1. | Sodium Sulphate | 29187 Tonnes per Annum |

This order is subject to the provisions of 'the Acts' and the Rules' and orders made there under and further subject to the terms and conditions incorporated in the schedule A, B & C enclosed to this order.

This combined order of consent & Hazardous Waste Authorisation shall be valid for a period ending with the 30th day of June, 2013.

Sd/-
MEMBER SECRETARY

To
M/s. Uranium Corporation of India Limited.,
(Formerly M/s. Tummalapalle Uranium Project),
(A Govt. of India Enterprise),
At Velpula, Medipentla(V) and Kotala(V),
Vemula(M),
Kadapa District.

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


P. Muna Suman
SENIOR ENVIRONMENTAL ENGINEER (CFO)

SCHEDULE - A

1. The applicant shall make applications **through online** for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules **at least 120 days before the date of expiry of this order**, along with prescribed fee under Water and Air Acts for obtaining Consent & HW Authorization of the Board.
2. 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) as constituted under Section 28 of the Water(Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air(Prevention and Control of Pollution)Act,1981.
3. The industry shall immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions etc.
4. a) All the fugitive emissions shall be controlled with proper measures.
b)The applicant shall also install the equipment such as wind speed recorder, wind direction recorder.
5. The applicant shall not change or alter either the quality or the quantity or the rate of the discharge or the route of discharge and shall not change or alter either the prescribed quality or the rate of emission without the previous written permission of the Board.
6. The applicant shall, not later than 30 days from the date of issue of this consent order, certify in writing to the Board that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities installed by the applicant, to comply with the terms and conditions of this consent. In absence of alternative electric power source sufficient to operate all facilities installed by the applicant, to comply with the terms and conditions of this consent, production shall be stopped.

7. Any up-set condition in any plant/plants of the industry, which result in, increased effluent discharge and/ or violation of standards stipulated in this order or the emission of any Air Pollutant into the environment in excess of the standards laid down by the Board, occurs or is apprehended to occur due to accident, or other unforeseen act or event, the person-in-charge of the premises, from where such discharge / emission occurs or is apprehended to occur shall forthwith intimate the fact of such occurrence or the apprehension of such occurrence to this Board, by fax / email under intimation to the Collector and District Magistrate.
8. In case of such episodal discharges / emissions mentioned in item 6 above, the industry shall take immediate action to bring down the discharge / emission below the limits prescribed in this order.
9. A good house keeping shall be maintained both within the factory and in the premises. All hoods, pipes, valves, sewers and drains shall be leak proof. Floor washings shall be admitted into the effluent collection system only and shall not be allowed to find their way into storm drains or open areas.
10. a)The industry shall carryout analysis of waste water discharges or emissions through chimneys, for the parameters mentioned in Schedule – B of this order at regular intervals.
b)The industry shall maintain following records to accessible to the Board, whenever required.
 - i. Analysis reports of waste water/ emissions.
 - ii. Log book for operation of pollution control systems.
 - iii. Inspection book
11. The applicant shall set up THREE Ambient Air Quality Monitoring Stations for continuous recording of relevant critical parameters mentioned in Schedule – B as per the CPCB guidelines and submit monthly reports.
12. Separate power connection with energy meter shall be provided for the Pollution Control Equipments and record of power consumption and chemicals consumption for the operation of pollution control equipment shall be maintained separately.
13. The applicant shall comply with the directives/orders issued by the Board in this order and at all subsequent times without any negligence on his part. The applicant shall be liable for such legal action against him as per provisions of the Law/Act in case if non-compliance of any order/directive issued at any time and/or violation of the terms and conditions of this consent order.
14. The applicant shall furnish to the visiting officer and / or the Board any information regarding the construction, installation or operation of the effluent treatment system / air pollution control equipment / secured storage area of Hazardous Waste and such other particulars as may be pertinent for preventing and controlling pollution.
15. The industry is liable to pay compensation for any environmental damage caused by it, as fixed by the Collector and District Magistrate as Civil liability.
16. All the rules & regulations notified by Ministry of Environment and Forests, Government of India in respect of management, handling, transportation and storage of hazardous chemicals and wastes shall be followed.
17. All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 shall be followed.
18. The occupier shall educate the workers and nearby public of possible accidents and remedial measures.
19. For any accident or spillage of hazardous wastes causing damage to the Environment, the occupier or the transporter as the case shall be held responsible.
20. In case of closure of industry, the un-used/not consumed raw materials falling under the category of Hazardous Chemicals and mentioned in Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Amendment Rules, 2003 shall be removed and sold to other units within 90 days from the date of closure to prevent any possibility of occurrence of an accident. In case the above hazardous chemicals have lost their properties originally acquired, then they shall be treated, as Hazardous Waste and they shall be disposed off only to the agencies authorized by APPCB in a safe manner.

21. The occupier shall prepare/update Emergency preparedness plan for safe handling of hazardous waste from time to time and submit the same to APPCB. Emergency preparedness plan must be implemented immediately whenever there is fire, explosion or release of hazardous waste or hazardous waste constituents, which could endanger to human health or environment.
22. The industry may explore the possibility of tapping the solar energy for their energy requirements.
23. Packaging, labeling and transportation of Hazardous Wastes shall be in accordance with the provisions of the rules issued by the Central Govt. under the Motor Vehicles Act, 1988 and other guidelines issued from time to time. The packaging and labeling shall be based on the composition and hazardous constituent of the waste, however all Hazardous Waste containers shall be provided with a general label.
24. The driver who transports Hazardous Waste shall be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter shall carry a Transport Emergency (TREM) Card (as given in the guidelines for management and handling of hazardous wastes) duly filled by the Hazardous Waste generator.
25. Containers / Container Liners of Hazardous Chemicals and Hazardous Wastes shall be thoroughly detoxified before selling to the agencies authorized by APPCB. Proper records, specific to each Hazardous Chemical / Hazardous Waste containers / Container Liners shall be maintained in the following way:
 - i) Number of containers received.
 - ii) Date and method of detoxification.
 - iii) Name of agencies to whom containers were sold with quantities.
 - iv) Transportation particulars.
26. No Hazardous Wastes shall be mixed with any other wastes or shall be discharged to a common, other internal, external sewerage or other drainage system without prior approval of APPCB.
27. If HDPE bags are used for storing Hazardous Wastes, it shall be ensured that they are perfectly sealed mechanically or double hot sealed. If MS/HDPE bags or drums are used for storing Hazardous Wastes, these drums / bags shall be ensured that they are perfectly sealed.
28. The person authorized shall not rent, lend, sell, transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.
29. Any unauthorized change in personnel, equipment as working condition as mentioned in the application by the person authorized shall constitute a breach of his authorization.
30. The industry shall comply with the provisions of Batteries (Management & Handling) Rules, 2001.
31. The industry shall put up two sign boards (6x4 ft. each) at publicly visible places at the main gate. The first sign board shall provide information on specific conditions of CFO and Hazardous Waste Authorization. The second sign board shall display online data on quantity and nature of hazardous chemicals being used in the plant, as well as water, air emissions and solid waste generated within the factory premises.
32. The applicant shall exhibit the Consent & HW Authorization order of the Board in the factory premises at a prominent place for the information of the inspecting officers of the different departments.
33. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves the right and powers under Section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 and its amendments thereof and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and its amendments thereof to review any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.
34. The authorization issued under Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and its amendments thereof, shall comply with the provision of the Environment (Protection) Act, 1986

SCHEDULE - B

Special Conditions

1. The effluent discharged shall not contain constituents in excess of the tolerance limits prescribed below:

| Outlet | Parameter | Limiting Standards |
|--------|---|--------------------|
| 2. | pH | 6.5 – 8.5 |
| | Total Suspended Solids | 100 mg/l |
| | Oil and Grease | 10 mg/l |
| | Biochemical Oxygen Demand (3 days at 27 ^o C) | 100 mg/l |
| | Chemical Oxygen Demand | 250 mg/l |
| | Total Dissolved Solids (TDS) | 2100 mg/l |

2. The industry shall take steps to reduce water consumption to the extent possible and consumption shall NOT exceed the quantities prescribed below:

| S.No. | Purpose | Quantity in KLD |
|-------|---|-----------------|
| 1. | Process | 5640 |
| 2. | Washings | |
| 3. | Boiler feed | |
| 4. | Industrial Cooling (Makeup)/Humidification/water spraying) | |
| 5. | Domestic & Gardening | |
| | Total | 5640 |

3. The industry shall file the water Cess returns in Form-I as required under section (5) of Water (Prevention and Control of Pollution) Cess Act, 1977 on or before the 5th of every calendar month, showing the quantity of water consumed in the previous month along with water meter readings. The industry shall remit water Cess as per the assessment orders as and when issued by Board.
4. The industry shall comply with emission limits for DG sets upto 800 KW as per the Notification G.S.R.520 (E), dated 01.07.2003 under the Environment (Protection) Amendment Rules, 2003 and G.S.R.448(E), dated 12.07.2004 under the Environment (Protection) Second Amendment Rules, 2004. In case of DG sets more than 800 KW shall comply with emission limits as per the Notification G.S.R.489 (E), dated 09.07.2002 at serial no.96, under the Environment (Protection) Act, 1986.
5. The industry shall comply with ambient air quality standards of PM₁₀ (Particulate Matter size less than 10µg) - 100 µg/ m³; PM_{2.5} (Particulate Matter size less than 2.5 µg) - 200 µg/ m³; SO₂ - 80 µg/ m³; NO_x - 80 µg/m³, outside the factory premises at the periphery of the industry.
Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009
Noise Levels: Day time (6 AM to 10 PM) - 75 dB (A)
Night time (10 PM to 6 AM) - 70 dB (A).
6. The industry shall not produce beyond the permitted capacity as mentioned in this order, without obtaining prior CFE & CFO of the Board.
7. The industry shall not manufacture any product, other than the mentioned in this consent order, without CFE & CFO of the Board.
8. *The industry shall operate 2 x 15 TPH boilers only. The industry shall not operate third 15 TPH boiler and D.G. sets without obtaining CFE/CFO of the Board and report the compliance to RO, Tirupati.*
9. *The industry shall construct and commission STP for domestic effluents within six months and report the compliance to Regional Office, Tirupathi.*
10. *The industry shall earmark the ESR amount at 0.2% of the project every year or as per DPE norms and spend the amount in Local area.*

11. The industry shall install and operate dedicated scrubbers to contain process emissions by using appropriate scrubbing solution. The details of chemicals consumption shall be recorded & kept accessible to the inspecting officials of the Board.
12. The Thickened Tailing Disposal (TTD) area shall be lined as mentioned in CFE Order dated 11-04-2007 before using and operate the system.
13. There shall not be any spillages / discharges of chemicals / effluents on ground. The drums containing chemicals & wastes shall be stored on elevated platform provided with leachate / spillages collection pit. In no case the drums shall be stored on naked ground.
14. The industry shall not cause any air pollution / odour nuisance in the surrounding environment.
15. The industry shall not discharge any wastewater outside the factory premises and maintain zero discharge of effluents.
16. The industry shall maintain proper lining to the collection tanks to prevent seepage of effluents.
17. Thick green belt of 50m shall be developed & maintained by the industry with tall growing trees along the boundary of the project. The total area of greenbelt shall be 360 hectares as stipulated in the CFE order dt: 11.04.2007.
18. The industry shall provide impervious lining or concrete with RCC in the process shed.
19. Under no circumstances, the Hazardous Waste is burnt in the boiler.
20. The industry shall submit mock drill report carried out at least once in six months, as required under the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
21. The industry shall regularly carryout the monitoring of environmental parameters & shall submit audit report to the Board twice in a calendar year.
22. The industry should establish appropriate RWH structure on the available up-stream portion of the plant site.
23. The industry shall provide separate water meters with necessary pipeline 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 biodegradable.
 - d. Processing, whereby water gets polluted and pollutants are not easily biodegradable.
24. The industry shall maintain the following records and the same shall be made available to the Board Officials during the inspection.
 - a. Daily production details, RG-I records and Central Excise Returns.
 - b. Quantity of Effluents generated.
 - c. Log Books for pollution control systems.
 - d. Daily solid waste generated and disposed to TSDF.
25. The industry shall comply with the conditions stipulated in the CFE order No. 103/PCB/CFE/RO-TPT/HO/2007-86, Dt: 11.04.2007.
26. The applicant shall submit Environment statement in Form V before 30th September of every year as per Rule No.14 of E(P) Rules, 1986 & amendments.
27. The conditions are without prejudice to the rights and contentions of this Board in any Hon'ble Court of Law.

SCHEDULE - C

[see rule 5(4)]

[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR HANDLING HAZARDOUS WASTES]

1. The industry shall give top priority for waste minimization and cleaner production practices.
2. The industry shall not store hazardous waste for more than 90 days as per the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and amendments thereof.
3. The industry shall store Used / Waste Oil and Used Lead Acid Batteries

4. The industry shall not dispose Waste oils to the traders and the same shall be disposed to the authorized Reprocessors/ Recyclers.
5. The industry shall dispose Used Lead Acid Batteries to the manufacturers / dealers on buyback basis.
6. The industry shall not dispose spent solvents / mixed spent solvents to the traders.
7. The industry shall take necessary practical steps for prevention of oil spillages and carry over of oil from the premises.
8. The industry shall maintain 6 copy manifest system for transportation of waste generated and a copy shall be submitted to Board Office and concerned Regional Office.
9. The industry shall maintain good house keeping & maintain proper records for Hazardous Wastes stated in Authorisation.
10. The industry shall maintain proper records for Hazardous Wastes stated in Authorisation in FORM-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form- 4 as per Rule 22(2) of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and amendments thereof.
11. The industry shall submit the condition wise compliance report of the conditions stipulated in Schedule B & C of this Order on half yearly basis to Board Office, Hyderabad and concerned Regional Office.
12. The industry shall dispose the e-waste to authorised recyclers / re-processors only.
13. The industry shall handle and dispose off the Radio-Active bearing wastes as per provision of the Atomic Energy Act, 1962 and Rules made thereunder.
14. The industry shall comply with the conditions stipulated in CFE Order dt. 11.04.2007.

Sd/-
MEMBER SECRETARY

To
M/s. Uranium Corporation of India Limited.,
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(A Govt. of India Enterprise),
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