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RESL/BWMP/RO-MoEF & CC/EC compliance/24112023
Date: 24-11-2023

To,

The Deputy Director,
Regional office,
Ministry of Environment, Forest and Climate Change,
Aranya Bhawan, MG Road, Jhalana Institutional Area,
IRO, Jaipur, Rajasthan-302004

Sub: "Compliance Report of Environment Clearance of TSDF Balotra Waste Management Project, Balotra, Rajasthan"

Dear Sir,

With reference to the above, we would like to convey that we are complying with the EC conditions accorded to CHW TSDF Balotra Waste Management Project, A Division of Re Sustainability Limited (Formerly known as Ramky Enviro Engineers Limited) under Environment Impact Assessment Notification, 2006 for setting up a Common Hazardous Waste Treatment, Storage and Disposal Facility at Balotra, Rajasthan.

Please find compliance report of Environment Clearance of TSDF Balotra Waste Management Project.

We assure you that we are committed to maintain high standards of environmental compliance and provide the best waste management services to our clients. We also assure that we shall comply with all the guidelines and norms stipulated by the State & Central Pollution Control Board.

Regards,

For Re sustainability Ltd.
(Formerly known as Ramky Enviro Engineers Ltd.)
Unit- Balotra Waste Management Project

Authorised Signatory.



Enclosures:

- ❖ Compliance report in the prescribed Performa.

CC:

1. The Group In charge (HSW), Rajasthan State Pollution Control Board, 4th Jhalana Institutional Area, Jhalana Doongri, Jaipur, Dist. - Jaipur, Rajasthan. Pin No. 302004.
- ✓ 2. The Regional Officer, Rajasthan State Pollution Control Board, Jasol Road, Near Jasol Phanta, Opposite VVNL Office, Balotra, District:- Barmer, Rajasthan. Pin-344022



ENVIRONMENT CLEARANCE (EC) COMPLIANCE STATUS REPORT

Name of Project: - Balotra Waste Management Project

Project Code- 22588

Clearance Letter no.: **No.10-85/2008-IA-III, Dated: - 15/09/2008**

Period of Compliance report: **01st April-2023 to 30th September-2023**

A. SPECIFIC CONDITION

COMPLIANCE STATUS

(i)

The leachate generated from the project shall be collected and treated.

Leachate from the Secured Landfill is collected with gravity collection system into sumps. From sumps, they are pumped to double line Solar Evaporation Pond where the effluent is subjected to forced evaporation. Flow meter is installed in Solar Evaporation Pond.

(ii)

Temporary cap to the landfill site shall be provided during monsoon period and the rain water shall be diverted beyond the bunds. Captured leachate will be subjected to forced evaporation / solar evaporation.

Non Operational cells are temporary capped. The rain water is collected in first flush retention pond through garland drain and then transferred to solar evaporation pond for forced evaporation.

(iii)

Capping of the landfill by placing composite liner on the top of the waste comprising of thick clay line and synthetic geo-membrane for prevention of infiltration of rainfall into the landfill.

Permanent capping of the landfill will be done as per the design & drawing approved by RPCB.

(iv)

Project proponent shall under take activities relating to socio-economic development apart from providing employment etc. The activity shall include providing drinking water to the adjacent village and setting up of a primary health centre.

It's a continuous process under our CSR activities

Some of our main activities includes:

- Employment to the people of adjacent village based on their qualification.
- Health checkup of villagers.
- Distribution of class note books & sweater in nearby schools in villages.
- Construction of a well-furnished toilet for girl students in government senior secondary school in Kher.
- Safety related trainings for village residents time to time.
- Distribution of drinking water by tankers in nearby villages.
- Installed RO Plant in Govt. Secondary School, Khed Village, Balotra to provide drinking water to school children and villagers.
- Installed RO Plant & Construction of Class Rooms in Govt. School, Gandhipura, Balotra.

ENVIRONMENT CLEARANCE (EC) COMPLIANCE STATUS REPORT

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| | | <ul style="list-style-type: none"> Construction of a Class room in Govt. Secondary School, Khed Villahge. |
| (v) | The proponent shall study the ground water pattern in the area, soil characteristics at different depths and shall provide the details of the study to Ministry within 3 months from the date of receipt of this letter. | Submitted. |
| (vi) | The secured Land fill site shall be in accordance with Rule 8 of the HW (M&H) Rules, 1989 as amended from time to time. | Step by step procedure was followed during development of the secured landfill site at Balotra. The facility was set up as per the design & drawing approved by state PCB, operation of TSDF is as per the TSDF protocol & guidelines from the RPCB & CPCB. |
| (vii) | Proponent shall not spray the leachate back on to the landfills. | Leachate from the Secured Landfill are collected with gravity collection system into sumps and then pumped to double line Solar Evaporation Pond where the effluent is subjected to forced evaporation. |
| (viii) | The proponent shall not treat the leachate by solar evaporation ponds. The proponent shall provide full fledged multi effect evaporator of treatment of leachate. | <p>Condition no (ii) of Specific Conditions of Environmental Clearance states that captured leachate will be subjected to forced evaporation/solar evaporation which is being complied.</p> <p>Moreover due to arid climatic conditions, lesser relative humidity, long sun hours & high annual evaporation rate of 1400 mm to 2600 mm, forced evaporation system like sprinkler accelerates rate of evaporation at solar evaporation pond. Leachate generation quantity is less than 100 KL per Month.</p> <p>However, if the quantum of incoming waste and/or leachate increases, suitable arrangements, proven alternative system and /or suggested system will be installed.</p> |
| (ix) | The proponent shall take all necessary measures in case of the failure land fill facility or in case failure of the HDPE liner, it shall be ensured that no contamination takes place to the soil below. necessary remediation measures shall be incorporated in to the project. | Presently we are conducting soil & ground water monitoring on regular basis and no contamination is found due to TSDF working activities. |
| (x) | A firm-ed-up detail with regard to the TSDF capacity along with the layout plan and design shall be provided to the Ministry within 3 months from the date of receipt of this letter. | The layout plan and design of the TSDF was provided to RSPCB, Jaipur. |
| (xi) | There shall be no deviation in the design of the proposed SLF and will be in accordance with the guidelines of CPCB. | The TSDF is constructed as per the design & layout approved by RSPCB Jaipur. It is strictly in accordance with the guidelines of CPCB. |

ENVIRONMENT CLEARANCE (EC) COMPLIANCE STATUS REPORT

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| (xii) | The manual stabilization system as given under section 5.2.4 of EIA Report will be replaced with mechanized system. | Stabilization of waste is done using back hoe loader. Fugitive Emission System has been installed as per CPCB direction & is under operation. |
| (xiii) | All necessary clearances from concerned agencies shall be obtained before initiating the project. | The site is having all necessary approvals from various departments required for running a TSDF. |
| (xiv) | No ground water shall be tapped for project. | Noted, due to high chloride & TDS, ground water is not used for project purpose. |
| (xv) | The proponent shall ensure that the TSDF fulfills all the provision of Hazardous waste (Management and Handling) Rules, 2003 and the design of land fill is as per as the guide lines of CPCB with proper leachate collection arrangement. | Design & layout for construction of TSDF is approved by RPCB vide letter nos., <ul style="list-style-type: none"> • F16 (BR-09)/HSW/SWMC/RPCB/897 dated 24/06/2013, • F-16(BR-09)/RPCB/HAZ/Vol-III/999 dated 9/02/2018, • F-16(BR-09)/RPCB/HAZ/Barmer/602 dated 24/06/2020. |
| (xvi) | The proponent shall ensure that the transportation of the Hazardous waste to the TSDF conforms to the laid down in the Hazardous waste (Management and Handling) 2003. | Transportation of hazardous waste is strictly done as per the guidelines of the board. Vehicles for carrying hazardous waste are properly displayed on vehicles. Each vehicle is equipped with GPS system. Form 8, Form 9 (TREM Card) & Form 10 (Manifest System) are strictly followed & maintained. |
| (xvii) | The TSDF shall only handle the waste generated from the members units. | Waste is lifted only from those companies which are authorized by RSPCB to generate hazardous waste. Proper documentation & comprehensive analysis of the waste is done before disposal. |
| (xviii) | Forced evaporation shall be provided to treat the effluent/leachate generated from the landfill. | Leachate from the Secured Landfill is collected with gravity collection system into sumps. From sumps, the effluents are pumped to double line Solar Evaporation Pond where the effluent is subjected to forced evaporation. Flow meter is installed in Solar Evaporation Pond. |
| (xix) | A leachate collection system shall be provided to collect the leachate at a collection point. Treatment facility for the collected leachate shall be provided. Treated water shall be reused as far as possible in the project. | Leachate from the Secured Landfill is collected with gravity collection system into sumps. From sumps, the effluents are pumped to double line Solar Evaporation Pond where the effluent is subjected to forced evaporation Flow meter is installed in Solar Evaporation Pond. |
| (xx) | Project proponent shall obtain necessary Authorization/ Consent from local Pollution Control Board. | Yes, it is complied. |
| (xxi) | The project proponent shall obtain necessary clearance from the Ground Water Authority before initiating the project. | Due to high chloride & TDS, the ground water is saline in nature and it is not used for project purpose. So, NOC is not required for Ground Water Authority. |
| (xxii) | The depth of landfill shall be decided based on the ground water level at the site. | All SLFs are constructed above ground levels. |

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| (xxiii) | Project proponent shall ensure that wastes with organic content >5% of degradable organic matters are not disposed in to the landfill. However, required arrangement for collection treatment and disposal of gases the landfill if any, shall be provided. | As of now, TSDF does not accept wastes with organic content >5% of degradable organic matters. Arrangements for gas collection & treatment will be provided once permanent capping is done. |
| (xxiv) | Project proponent shall prepare and implement an onsite emergency plan. | Under Implementation. |
| (xxv) | Project proponent shall carry out periodical ground water/soil monitoring in and around site to check contamination including TCLP test for Heavy metals. | Periodical monthly test of ground water and soil monitoring in and around the site is being done on monthly basis & records are maintained as well. We submit these reports to RPCB on quarterly basis via annexure-4 Protocol. TCLP for heavy metals for soil are also being done. |
| (xxvi) | Project proponent shall carry out periodical air quality monitoring in and around site including VOC, HC. | AAQM is doing by MOEF & CC approved LAB on Quarterly basis. Results of the parameters like PM10, PM 2.5, sulphur dioxide, oxides of nitrogen, ammonia, lead, nickel are below CPCB standards. VOC & HC monitoring is also done on Half yearly basis. |
| (xxvii) | Project proponent shall develop green belt all along the periphery of the TSDF with plant species that are significant and used for the pollution abatement. | Green belt is properly developed & maintained all along the periphery of the TSDF. Green belt comprises of 5000 plants of different species, locally named as Neem, Faras, Peepal, Karanj, Sares, Mehendi, Jaal, Aadu, etc. For better aesthetics, plants like Erika Palm, China Palm, Rose, Kanel, Bougainvillia, plants of Indoor species are planted in flower pots in & around the admin building & porch area. |
| (xxviii) | Dense carpet of grass maintained over the fertile soil to protect erosion and to the provided better aesthetics. | It is maintained. |
| (xxix) | The project proponent shall not store the hazardous wastes more than the capacity that has been permitted by the CPCB. | We are not storing hazardous waste. |
| (xxx) | Adequate Firefighting facility shall be installed to handle the fire arising from Hazardous chemicals/ waste that are stored /processed. | Fire Extinguishers are installed at all the places for this purpose. |
| B. GENERAL CONDITIONS | | Compliance status |
| (i) | The project proponent shall set up necessary facility for onsite testing of waste to decide the requirement if any, before disposal. | BWMP is furnished with state of art laboratory. The site is ISO certified. NABL accreditation of lab is under process. Instruments available in lab for testing of waste are as follows-Atomic Absorption Spectroscopy (AAS), pH Meter, EC-TDS Meter, Magnetic Stirrer, Heating Plate, Muffle Furnace, Hot Air Oven, COD Digestor, Low Temperature Cabinet, TCLP Rotator, Digital Weighing Balance, Electronic Balance, Sound Level Meter, Water Distillation Unit, BOD Incubator, Weather Monitoring |

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| | | System, Merck Spectroquant Move 100, Karl Fischar Titrator, Soxhlet Assembly, Hygrometer, Bomb Calorimeter, PMCC Flash Point Tester, UV- VIS Spectrophotometer, Glass Thermometer, Density Hydrometer, Respirable Dust Sampler (PM-10), Gaseous Sampler with attachment, Fine Dust Sampler (PM-2.5/10), Gaseous Sampler with attachment, Semi Micro Balance, Flame Photometer, Multi Gas Detector, Stack Kit. |
| (ii) | Project proponent shall set up Environment Management Cell for effective implementation of the stipulated environment safeguards under the supervision of a senior executive. | Environment Management Cell is headed by Project Head of the TSDF. People having qualifications like MBA, M.Sc & M-Tech (Environment science/ Environmental management) M.Sc (chemistry), and Bio-tech are members of Environment Cell. |
| (iii) | The Project proponent shall carry out assessment on the functioning of the landfill site through third party. Constitution of such independent body shall be informed to the officers of this Ministry/regional office. | Latest Environmental Audit done by NEERI team in July-2021, and Recently done by IIT, Delhi in November 2023. |
| (iv) | The project proponent shall extend full support to the officers of this Ministry/Regional office during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports of mitigation measures and other environmental protection activities. | Officers of Ministry/Regional Office are always welcomed at Balotra TSDF site to guide us for further improvement. We take all inputs. |
| (v) | A six -Monthly monitoring report shall need to be submitted by the project proponents to the regional office of this Ministry at Lucknow regarding the implementation of the stipulated condition. | Complied. |
| (vi) | The Ministry reserves the right to revoke this clearance if any of the condition stipulated are not complied with the satisfaction of the ministry. | Noted |
| (vii) | In the event of a change in the project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment and Forest. | Noted |
| (viii) | The project proponent shall inform the regional office of this Ministry at Lucknow as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work. | Noted |

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| (ix) | The copy of clearance letter will be marked to concerned Panchayat/ local NGO, if any from whom any suggestion/representation has been made received while processing the proposal. | Noted |
| (x) | The Project proponent shall provide adequate safety facilities. | Safety & hygiene is given utmost importance. Daily Safety Tool Box talk is being done before the start of the day. Safety PPEs and safety equipment's are provided to all the staffs, labors & contractors working at the site. Work permit are issued for all works. Designated Safety Officer ensures that all the works are done with all safety precautions. |
| (xi) | Pollution control board shall display the clearance letter at the Regional office, District industries center and Collector Office / tehsildars office for 30 days. | Noted |
| (xii) | Any Appeal against this EC shall lie with the NEAA, if preferred within a period of 30 days as prescribed under Section 11 of the National Env't. Appellate Act 1997. | Noted |

ER3035358201N IVR:698230353987 भारतीय डाक

SP BALOTRA S.O (344022)

Counter No:1,29/11/2023,10:12

To:THE DEPUTY DIRECTOR,

PIN:302004, Jawahar Nagar H.O

From:BALOTRA WAS,KHER

Wt:45gms

Amt:41.30(Cash)Tax:6.30

<Track on www.indiapost.gov.in>

<Dial 18002666868> <Wear Masks, Stay Safe>



ER3035358471N IVR:698230353587 भारतीय डाक

SP BALOTRA S.O (344022)

Counter No:1,29/11/2023,10:11

To:THE GROUP IN ,RAJ STATE POLLUT

PIN:302004, Jawahar Nagar H.O

From:BALOTRA WAS,KHER

Wt:45gms

Amt:41.30(Cash)Tax:6.30

<Track on www.indiapost.gov.in>

<Dial 18002666868> <Wear Masks, Stay Safe>

