

**J-11011/140/2016-IA II (I)**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(I.A. Division)**

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Telefax: 011-24695313  
Dated: 02<sup>nd</sup> August, 2016

To,

Shri Dinesh Shukla  
Dy. General Manager- Safety, Health & Environment  
M/s Tata Chemicals Limited  
Mithapur, Dwarka, Devbhumi Dwarka,  
Gujarat-361345

**Subject: Expansion of Soda Ash and Captive Cogeneration Power Plant at Villages Mithapur & Surajkaradi, Taluka Dwarka, District Devbhumi Dwarka, Gujarat by M/s TATA Chemicals Ltd.– reg. TOR**

**Ref. No.: Your Proposal no. IA/GJ/IND2/53444/2016 ; dated 4<sup>th</sup> May, 2016.**

Sir,

Kindly refer your proposal no IA/GJ/IND2/53444/2016 dated 4<sup>th</sup> May, 2016 along with project documents including Form-I, Pre-feasibility Report and draft 'Terms of Reference' as per the EIA Notification, 2006. It is noted that the proposal is for expansion of soda ash, cement and captive cogeneration power plant at Villages Mithapur & Surajkaradi, Taluka Dwarka, District Devbhumi Dwarka, Gujarat by M/s TATA Chemicals Ltd. The following product will be manufactured under proposed project:

S. No.	Particulars	Existing	Proposed	Total
1.	Soda Ash	10,91,000 TPA	225,000 TPA	1,316,000
2.	Cement*	7,87,000 TPA	1,13,000 TPA	9,00,000
3.	Power	85 MW	40 MW	125 MW
4.	Steam	757 TPH	300 TPH	1057 TPH
5.	Sodium Bicarbonate	1,50,000 TPA	Nil	1,50,000 TPA
6.	Vacuum & Pure Salt	11,00,000 TPA	Nil	11,00,000 TPA
7.	Caustic Soda	36,000 TPA	Nil	36,000 TPA
8.	Liquid Chlorine	18,000 TPA	Nil	18,000 TPA
9.	33 % Hydrochloric acid	64,800 TPA	Nil	64,800 TPA
10.	Hydro Bromic Acid	37 TPA	Nil	37 TPA
11.	Bromine	2,400 TPA	Nil	2,400 TPA
12.	Gypsum	1,34,892 TPA	Nil	1,34,892 TPA
13.	Clinker	8,25,000 TPA	Nil	8,25,000 TPA
14.	Desalination water (RO Plant)	21,60,498 M3/Year	Nil	21,60,498 M3/Year

\*cement plant is excluded from this proposal after presentation.

2.0 Draft Terms of Reference (TOR) have been discussed and finalized during 9<sup>th</sup> Expert Appraisal Committee (Industry-2) meeting held during 27-28<sup>th</sup> June, 2016 for preparation of

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EIA/EMP report. The Committee prescribed the following Specific and Additional TOR in addition to Generic TOR provided at Annexure-I (refer to Ministry's website) for preparation of EIA-EMP report:

#### A. Specific TOR

1. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs and outputs (material and energy balance).
2. Details on requirement of raw materials (seawater, lime-stone, coke, ammonia, additives, etc.), its source and storage at the plant.
3. Details of handling Chlorine, Bromine and ammonia and risk assessment.
4. Details on water balance including water use, quantity of effluent generated, recycled and reused and its impact of discharge to receiving water body.
5. Details of effluent treatment plant, inlet and treated water quality with specific efficiency of each treatment unit in reduction in respect of all concerned/regulated environmental parameters.
6. Details of CO<sub>2</sub> emissions including its quantum per tonne of soda ash.
7. Management plan for solid waste generation (fines of lime stone, grits, brine sludge etc.), storage, utilization and disposal modes.
8. In case of coastal plants details on extraction of sea water and effluent disposal, development of solar salt works based on sea water evaporation, etc.,.
9. Details on groundwater quality and surface water quality of nearby water sources and other surface drains. The parameters of water quality may include  $\text{Cl}^-$ ,  $\text{Ca}^{2+}$ ,  $\text{Na}^+$ ,  $\text{SO}_4^{2-}$ ,  $\text{NH}_4^+$ , Suspended solids\* etc. (\* - As applicable)
10. Ambient air quality should include  $\text{NH}_3$ .
11. Proper ash management plan to be drawn.

#### B. Additional TOR:

- i. Public hearing to be conducted and issues raised and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made.
- ii. Water balance is required to be reworked. Detailed water conservation plan with recycle and reuse to be drawn.
- iii. Recommendation of SEZ Authority shall be obtained
- iv. Impact on marine life to be assessed.
- v. Separate EC to be obtained for cement plant

3.0 These 'TORs' should be considered for the preparation of EIA/EMP for expansion of soda ash and captive cogeneration power plant at Villages Mithapur & Surajkaradi, Taluka Dwarka, District Devbhumi Dwarka, Gujarat by M/s TATA Chemicals Ltd. in addition to all the relevant information as per the 'General Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. The EIA/EMP as per TORs should be submitted to the Chairman, Gujarat Pollution Control Board, for public consultation. The SPCB shall conduct the public hearing/public consultation as per the provisions of EIA notification, 2006.

4.0 You are requested to kindly submit the final EIA/EMP prepared as per TORs and incorporating all the issues raised during Public Hearing / Public Consultation to the Ministry for considering the proposal for environmental clearance **within 3 years as per the MoEF O.M. No. J-11013/41/2006-IA.II (I) dated 8<sup>th</sup> October, 2014.**

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5.0 The consultants involved in the preparation of EIA/EMP report after accreditation with Quality Council of India/ National Accreditation Board of Education and Training (QCI/NABET) would need to include a certificate in this regard in the EIA/EMP reports prepared by them and data provided by other Organization(s)/Laboratories including their status of approvals etc.



**(Lalit Bokolia)**  
**Additional Director**

Copy to:

- 1 The Chairman, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector – 10, A, Gandhi Nagar - 382 010, Gujarat
- 2 The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal – 462016.



**(Lalit Bokolia)**  
**Additional Director**

