



J-11011/182/2016-IA II (I)

**Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)**

**Indira Paryavaran Bhawan
Aliganj, Jorbagh Road
New Delhi – 110 003**

**E-mail: lk.bokolia@nic.in
Telefax: 011-24695313
Dated: 25th October, 2016**

To,

**Shri C Narayanan
CEO
Kochi Salem Pipeline Pvt Ltd.,
BPCL Irumpanam Installation,
Kundannoor, Maradu,
Kerala-682304**

Subject: Laying of pipeline (12 "dia) from BPCL Kochi Refinery to Kerala Tamil Nadu border including connectivity to IOCL Udayamperoor LPG plant in the state of Kerala terminating at Alathur in Palakkad District by M/s Kochi Salem Pipeline Pvt. Ltd., a Joint venture of M/s BPCL and M/s IOCL.-TOR

Ref. No.: Your Proposal no. IA/KL/IND2/57100/2016; dated 06th July, 2016.

Sir,

Kindly refer your proposal no IA/KL/IND2/57100/2016; dated 06th July, 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 Laying of pipeline (12 "dia) from BPCL Kochi Refinery to Kerala Tamil Nadu border including connectivity to IOCL Udayamperoor LPG plant in the state of Kerala terminating at Alathur in Palakkad District by M/s Kochi Salem Pipeline Pvt. Ltd., a Joint venture of M/s BPCL and M/s IOCL. The pipeline is passing through Peechivzhanl Wildlife Sanctuary. The following pipeline facilities shall be considered for telemetry purposes and hook-up to Centralised SCADA through Remote Terminal Units (RTUs) located at these locations for Kochi – Coimbatore – Erode – Salem LPG Pipeline

- i. Despatch Terminal facilities - 2 Nos
- ii. Intermediate Pigging Station - 2 Nos.
- iii. Receipt terminals - 5 Nos.
- iv. Sectionalizing valve stations / CP stations - 44 Nos.

2.0 Draft Terms of Reference (TOR) have been discussed and finalized during 12th Expert Appraisal Committee (Industry-2) meeting held during 23-24th August, 2016 for preparation of EIA/EMP report. The Committee prescribed the following Specific and Additional TOR in

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addition to Generic TOR provided at Annexure-I (refer to Ministry's website) for preparation of EIA-EMP report:

A. Specific TOR:

1. Justification of the project
2. Route map indicating project location
3. Details of land to be acquired. Details of projects vis-à-vis ESAs and approvals thereof.
4. Project location along with map of 1 km area (500 meters on either side of the pipeline from centerline) and site details providing various industries, surface water bodies, forests etc.
5. Analysis of alternative sites and Technology.
6. Location of National Park/Wild life sanctuary/Reserve Forest within 10 km radius of the project.
7. Recommendation of SCZMA /CRZ clearance for the proposed pipeline.
8. Present land use based on satellite imagery for the study area of 10 km radius.
9. Details of applications filed for forest clearance to be obtained for the project for the forest land involved in the project along with details of the compensatory afforestation.
10. Process Description along with Process Flow Diagram.
11. Details of water consumption and source of water supply, waste water generation, treatment and effluent disposal.
12. Detailed solid & Hazardous waste generation, collection, segregation, its recycling and reuse, treatment and disposal.
13. Total cost of the project along with total capital cost and recurring cost/annum for environmental pollution control measures.
14. Site-specific micro-meteorological data for temperature, relative humidity, hourly wind speed and direction and rainfall for one season at one location.
15. At total of 30 locations, ambient air quality monitoring within the study area of 500 m along the pipeline route and around the pumping station and delivery station for PM10, SO2, NOx, CO, HC, VOC for one season (Non Monsoon) taking into account the pre-dominant wind direction at the representative locations covering population zone and sensitive receptors including reserved forests.
16. Determination of atmospheric inversion level and assessment of ground level concentration of pollutants. Air quality modelling for proposed project.
17. At about 10 locations, water monitoring will be conducted including surface & ground water for one season (Non Monsoon)
18. At 15 locations, Soil sample analysis within the study area for one season (Non Monsoon).
19. At 30 locations, noise Monitoring will be taken up for one season (Non Monsoon)
20. Demography & socio-economics of the study area.
21. Ecological features (terrestrial & Aquatic) of the study area for one season (Non Monsoon)
22. Assessment of impact on air, water, soil, solid/hazardous waste and noise levels.
23. Air pollution control measures proposed for the effective control of gaseous emissions within permissible limits.
24. Details of proposed preventive measures for leakages and accident.
25. Risk assessment including Hazard identification, Consequence Analysis, Risk Assessment and preparation of Disaster Management Plan as per Regulations.
26. Corrosion Management of Pipeline
27. Details of proper restoration of land after laying the pipelines.
28. Details of proposed Occupational Health Surveillance program for the employees and other labor

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29. Detailed Environment management Plan (EMP) with specific reference to Energy conservation and natural resource conservation, details of air pollution control system, water & wastewater management, monitoring frequency, responsibility and time bound implementation plan for mitigation measure will be provided.
30. Public hearing to be conducted in 4 districts through which the pipeline passes. Point wise comments/reply to the issues raised during Public Hearing / Public Consultation.

B. Additional TOR

- i. Public hearing is exempted as per para 7(ii) of EIA, Notification, 2006.
- ii. A copy of letter to be submitted for seeking Wildlife Clearance.
- iii. Forest clearance to be obtained.
- iv. Monitoring data to be obtained on rerouting pipeline.

3.0 These 'TORs' should be considered for the preparation of EIA/EMP for Laying of pipeline (12 "dia) from BPCL Kochi Refinery to Kerala Tamil Nadu border including connectivity to IOCL Udayamperoor LPG plant in the state of Kerala terminating at Alathur in Palakkad District by M/s Kochi Salem Pipeline Pvt. Ltd., a Joint venture of M/s BPCL and M/s IOCL., 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.

4.0 You are requested to kindly submit the final EIA/EMP prepared as per TORs 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 8th October, 2014.**

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.

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(Lalit Bokolia)
Additional Director

Copy to:

- 1 The Chairman, Tamil Nadu Pollution Control Board, 100, Anna Salai, Guindy, Chennai – 600032, Tamil Nadu.
- 2 The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (SEZ), 1st and 11nd Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai – 34.

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(Lalit Bokolia)
Additional Director

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