



सत्यमेव जयते

**Proceedings of the State Environment Impact Assessment Authority
Kerala**

Present: Prof. (Dr.) K.P. Joy, Chairman, Dr. J. Subhashini, Member and Sri. P. Mara Pandiyan I.A.S
Member Secretary.

Sub: SEIAA- Environmental Clearance for construction of new LPG storage and Bulk Dispatch Terminal at. Survey Nos. 480/2 Pt , 546/1 , 546/2 Pt, 546/3 Pt , 560/2 Pt , 560/3 Pt, 561/3 Pt, 561/4 Pt, 561/5 Pt , 561/6 Pt, 562/1 Pt, 562/3 Pt, 562/4 Pt, 563/1, 563/ 2, 563/3, 563/4, 563/5, 563/6, 564/ 1 Pt, 564/ 2 Pt, 565/ 6 Pt , 566/6 Pt. of Kinfra Integrated Industrial & Textile Park, Kanjikode East, Palakkad District by M/s. BPCL, Kochi. - Granted – Orders Issued

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY

No. 789/SEIAA/EC1/1381/2015

Dated 21-12-2015

- Read : 1. Application dated 23-4-2015 from the Territory manager, (LPG), BPL, Kochi .
2. Minutes of the 44th meeting of SEAC held on 12/13-8-2015.
3. Minutes of the 47th meeting of SEAC held on 29/30-9-2015
4. Minutes of the 45th meeting of SEIAA held on 4-12-2015.

ENVIRONMENTAL CLEARANCE NO. 113 /2015

Sri. Tharian Peter, Territory Manager (LPG) – Kochi Bharat Petroleum Corporation Limited, LPG Filling Plant, Kochi Refinery, Ambalamugal, Ernakulam, Kerala - 682302 has applied for Environmental Clearance for construction of new LPG storage and Bulk Dispatch Terminal at Survey Nos. 480/2 Pt , 546/1 , 546/2 Pt, 546/3 Pt , 560/2 Pt , 560/3 Pt, 561/3 Pt, 561/4 Pt ,561/5 Pt , 561/6 Pt, 562/1 Pt, 562/3 Pt, 562/4 Pt,563/1 , 563/ 2 ,563/3, 563/4, 563/5, 563/6 , 564/ 1 Pt, 564/ 2 Pt, 565/ 6 Pt , 566/6 Pt. of Kinfra Integrated Industrial & Textile Park, Kanjikode East, Palakkad District. The project comes under the Category B, B1 of Schedule of EIA Notification 2006/6(b). No forest land is involved in the present project.

2. Bharat Petroleum Corporation Limited (BPCL), a fortune 500 oil refining, exploration and marketing PSU with Navratna status is expanding its Kochi Refinery from 9.5MMTPA to 15.5MMTPA, at an investment of approx 15,000 crores, for meeting the demand of petroleum products in Southern Region. Subsequent to the expansion of the



refinery, the production of LPG will go up from 0.6MMTPA to 1.2MMTPA. The only possible economical and safe mode of evacuation of additional LPG to the demand centres is through pipeline. In order to store and handle the evacuated LPG from Kochi Refinery, BPCL proposes to construct a new LPG Storage & Bulk Dispatch Terminal at Industrial Development Area under KINFRA Integrated Industrial & Textile Park, Kanjikode East, Palakkad District, which is getting hooked up with Kochi- Coimbatore pipeline.

Basic Information provided by the proponent

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| Name of the Project | Construction of New LPG Storage & Bulk Dispatch Terminal |
| Terminal Capacity | 700 TMTPA |
| Proposed Facilities | Receipt : Primarily Through 12" Kochi - Coimbatore - - Salem Pipe Line Storage : 3 x 1450 MT Mounded Storage Vessel Dispatch : 8 Nos of Tank Lorry loading bays |
| Location | Survey No: 480/2 Pt , 546/ 1 , 546/ 2 Pt, etc. KINFRA Integrated Industrial & Textile Park, Kanjikode East, Pudukkottai Central Village, Palakkad District |
| Total Land Area | 18.95 Acres |
| Project Cost | Rs. 184 Cr. |
| Manpower required during Operation phase | 25 Nos |

OTHER DETAILS OF THE PROJECT PROPOSAL

| | | |
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| 1. Distance from nearest | 1.Fire station | Kanjikode FS (8Km) |
| | Water body | KINFRA Rain Water Harvesting Pond (50m) |
| | 3.Airport | Coimbatore IA (55Km) |
| 2. If General Conditions applicable: Certificates from authorized departments if the project site is located in whole or in part within 10 km from the boundary of : | a) Protected Areas notified under the Wild Life (Protection) Act, 1972 | NA |
| | b) Critically Polluted areas as notified by the Central Pollution Control Board from time to time | NA |
| | c) Notified Eco-sensitive areas | NA |
| | d) Inter-state boundaries and international boundaries | Kerala- Tamil Nadu Border is at a distance of approximately 10 |



| | | | |
|---|--|---|--------------------------------|
| | | | km from KINFRA Industrial Park |
| 3. Site plan of the project showing the following: | 1. Location of STP | Septic tank and soak pit will be provided for discharge of domestic sewage. | |
| | 2. Green belt | The layout of LPG Plant is governed by OISD norms and required safety distance of all facilities from the periphery is being maintained as per OISD standards. The greenery with plantation will be developed all around the periphery of the plant as per OISD norms | |
| | 3. Parking space | 4852m ² parking area for truck lorries and Separate car/cycle shed of 15mx 5m shall be provided. | |
| | 4. RWH and water recharge pits | RWH Strategies within the project premise shall be proposed along with EIA report | |
| | 5. Fire fighting equipment layout | Fire Fighting System Design for the plant shall be based on OISD 144 requirements and we are in the process of appointing a consultant for the same. | |
| | 6. First aid room | First Aid facilities will be provided inside Planning /Admin Building. | |
| | 7. Location of Tube wells | No Tube Wells to be bored at site since water requirement for the plant is to be met by KINFRA | |
| 4. Permission of Competent Authority on: | 1. CRZ clearance | NA | |
| | 2. Any other(Specify) | NA | |
| 5. Water balance chart for rainy and non-rainy days indicating critical requirements. | Water requirement of Plant will be met by KINFRA. KINFRA WISE Park and Industrial Park are having separate Rain water harvesting ponds and open wells to meet daily requirements of its units. Approx. 10KLD water shall be required for construction phase. | | |
| 6. Extent of area in m ² : | 1. Total Plot Area | 18.95Acres (76686 m ²) | |
| | 2. Total Built-Up Area | 2.6 Acres (3910m ²) | |
| | 3. Vacant area / Open to sky | 16.35 Acres (33319 m ²) | |
| 7. Energy sector | 1. Energy requirement | To be taken from KSEB. | |
| | 2. Quantification of energy saved | The estimated connected load is 451.7 KW and maximum demand is 395 KVA. For back up and critical loading 2 Nos. 625 KVA and 1 No. | |



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|-----|---|-----------------------------------|---|
| | | | 125 KVA DG Sets are to be used. |
| | | 3. Renewable energy devices used | Inside Admin building Sun Pipe will be provided to harness renewable energy as part of BPCL's RE policy. |
| 8. | Waste management proposals for: | 1. Solid waste 2. Liquid waste | Only domestic waste due to use of toilets will be generated during operation phase and the same shall be disposed in septic tanks as per standards. |
| 9. | a) Accreditation with serial number of QCI / NABET | | NABET/ EIA/RA022/047 |
| 12. | Details of Authorised Signatory | | Sri. Tharian Peter Territory Manager (LPG) – Kochi Bharat Petroleum Corporation Limited, LPG Filling Plant, Kochi Refinery, Ambalamugal, Ernakulam, Kerala - 682302 |
| 13. | Details of NABET approved EIA consultant organisation | | M/s. Mecon Pvt. Ltd., Environmental Engineering Section, Doranda, Ranchi-834002. |

3. The proposal was first considered by SEAC in its 44th meeting held on 12th and 14th August 2015. The project area is located in notified industrial area of KINFRA, Palakkad. The proponent informed that the Cochin Refinery propose to increase the production from the existing 9.5 MMTPA to 15.5 MMTPA. Consequently, it is proposed to create additional storage facility at the KINFRA industrial area. The project site was visited by Site Appraisal Committee and forwarded their approval to the Principal Secretary (Industries) as per Factories & Boilers Act for getting site approval for the project. The proposal also got consent from KSPCB. The proponent also informed that project will help to reduce the LPG tanker movement along the road. Water requirement will be provided by KINFRA. Pressurized fire fighting safety network system with fire water storage for 4 hrs is proposed. The proposal carries OISD safety audit, provision for monthly fire safety mock drill, etc. The proposed project comes under seismic zone III. The Committee observed that there are settlements around the project area.

The Committee decided to *defer* the item for the production of the following documents/additional clarification.

1. The EIA report already prepared should be submitted to SEIAA with all statutory clearances they have got for the project.



2. Sufficient buffer distance should be kept for other projects in the area.
3. The high tension line if any passing above the proposed area must be shifted.
4. Action proposed for protecting the existing water stream in the area.
5. The natural stream passing near the proposed area must be kept undisturbed.

The proposal was again considered by SEAC on submission of the additional clarifications sought by the committee in its 46th meeting held on 29th and 30th September 2015 as Agenda Item No. 44.26 and the committee *deferred* the item for personal appearance of the proponent before the committee for clarifying certain aspects of the EIA report.

4. The proposal was again considered by SEAC in its 47th meeting held on 13/14-10-2015. Representatives of the BPCL appeared before the Committee for offering clarifications. They explained that the ToR approved by MoEF vide letter No. F. No. 11011/396/2012-IA II (I) dated 27.09.2015 included storage facilities also. However by the time the EIA report was submitted, a separate entity was formed for the pipe line and therefore it was not included. Now they have got the EIA report prepared by Mecon Limited inclusive of the storage facility. Though the actual procedure is to conduct the EIA based on the TOR approved by the Committee, here the proponent has submitted EIA report which was conducted by covering all the points as per the 'standard terms of reference' for conducting environment impact assessment study for isolated storage & handling of hazardous chemicals 6(b)' published by MoEF. The Committee examined the EIA report and found that chapter 2 Sub-para 2.2.3 has covered the point in the Standard ToR by MoEF. The committee examined the application, EIA report, all other connected documents and also considered the fact that the unit is situated in Kinfra Integrated Industrial & Textile Park, Kanjikode, the Committee recommend to SEIAA for issuance of EC subject to the general conditions and the specific conditions as recommended.

5. The above recommendations were considered in the 45th meeting of SEIAA held on 4-12-2015. The project is in an industrial area. Authority accepted the recommendations for issue of E.C subject to the following specific conditions:

1. Sufficient buffer distance should be kept for other projects in the area.
2. The high tension line if any passing above the proposed area must be shifted.
3. An independent feeder electric supply shall be ensured for uninterrupted power supply.
4. Bulk unloading facility for meeting contingencies shall be properly maintained at all times.
5. The natural stream passing near the proposed area must be kept undisturbed.



6. Annual safety audit shall be carried out for the initial three years by an independent agency and a copy of the report shall be submitted to SEIAA also.
7. Occupational health surveillance of workers shall be done on regular basis and records shall be maintained as per Factories Act.
8. The company should harvest maximum rain water and reuse the same.
9. Requisite on-site and off-site disaster management plan shall be prepared and implemented.

6. State Environmental Impact Assessment Authority, Kerala hereby accord environmental clearance for construction of the new LPG storage and Bulk Dispatch Terminal at. Survey Nos. . 480/2 Pt , 546/1 , 546/2 Pt, 546/3 Pt , 560/2 Pt , 560/3 Pt, 561/3 Pt, 561/4 Pt ,561/5 Pt , 561/6 Pt, 562/1 Pt, 562/3 Pt, 562/4 Pt,563/1 , 563/ 2 ,563/3, 563/4, 563/5, 563/6 , 564/ 1 Pt, 564/ 2 Pt, 565/ 6 Pt , 566/6 Pt. of Kinfra Integrated Industrial & Textile Park, Kanjikode East, Palakkad District by M/s. BPCL , Kochi subject to the specific conditions in para 5, in addition to the general conditions stipulated for non-mining projects as appended hereto:

7. The clearance issued will also be subject to full and effective implementation of all the undertakings given in the Form.1 application form, mitigation measures as assured in Chapter 4 of the EIA report, Environment Management Plan in chapter 5, and the Disaster management Plan in chapter 7, as submitted with the application and relied on for grant of this clearance. The mitigation measures, safety precautions and the conditions and undertakings in the above chapters will be deemed to be part of this proceedings as conditions as undertaken by the proponent, as if incorporated herein.

5. Validity of the environmental clearance will be five years form the date of this clearance, subject to earlier review in the event of violation or non- compliance of any of the conditions stipulated herein.

6. Compliance of the conditions herein will be monitored by the Directorate of Environment and Climate Change or its agencies and also by the regional office of the Ministry of Environment & Forests, Govt. of India, Bangalore.

- i. Necessary assistance for entry and inspection should be provided by the project proponent and those who are engaged or entrusted by him to the staff for inspection or monitoring.
- ii. Instances of violation if any shall be reported to the District Collector, Ernakulam to take legal action under the Environment (Protection) Act 1986.



7. The given address for correspondence with the authorised signatory of the project is:

Sri. Tharian Peter,
Territory Manager (LPG),
Kochi Bharat Petroleum Corporation Limited,
LPG Filling Plant, Kochi Refinery,
Ambalamugal, Ernakulam, Kerala - 682302.

Sd/
P. Mara Pandiyan., I.A.S
Member Secretary (SEIAA)
&
Additional Chief Secretary to Government
Environment & Forest Department
Government of Kerala.

To

Sri. Tharian Peter,
Territory Manager (LPG),
Kochi Bharat Petroleum Corporation Limited,
LPG Filling Plant, Kochi Refinery,
Ambalamugal, Ernakulam, Kerala - 682302.

Copy to:

1. The District Collector, Palakkad. MoEF Regional Office, South Zone, Kendriya Sadan, 4th floor, E & F Wing, II Block, Koramangala, Bangalore-560034.
2. Principal Secretary to Government, Environment Department, Government of Kerala.
3. Director, Department of Environment & Climate Change, Government of Kerala.
4. Director, Factories & Boilers Department, Vanchiyoor. P.O. Thiruvananthapuram-35.
5. The Director General Fire Force, Thiruvananthapuram-1.
6. Member Secretary, Kerala State Pollution Control Board, Pattom, Thiruvananthapuram-4.
7. Chairman, SEIAA, Kerala
8. Website
9. Stock file
10. O/C.



Forwarded/ By order

Administrator
SEIAA

GENERAL CONDITIONS (for projects other than mining)

- (i) Rain Water Harvesting capacity should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified elsewhere.
- (ii) Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
- (iii) Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, inclusive of approach road and internal roads.
- (iv) The project shall incorporate devices for solar energy generation and utilization to the maximum possible extent with the possibility of contributing the same to the national grid in future.
- (v) Safety measures should be implemented as per the Fire and Safety Regulations.
- (vi) STP should be installed and made functional as per KSPCB guidelines including that for solid waste management.
- (vii) The conditions specified in the Companies Act, 2013 should be observed for Corporate Social Responsibility.
- (viii) The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.
- (ix) Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity.
- (x) All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.
- (xi) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.
- (xii) The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
- (xiii) The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
- (xiv) The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Department of Environment and Climate Change, Govt. of Kerala and may also be seen on the website of the Authority at www.seiaakerala.org. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.
- (xv) A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayat/ District Panchayat/ Municipality/Corporation/Urban Local Body and also to the Local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The Environmental Clearance shall also be put on the website of the company by the proponent.
- (xvi) The proponent shall submit half yearly reports on the status of compliance of the stipulated EC conditions including results of monitored data **(both in hard copies as well as by e-mail)** and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective Regional Office of MoEF, Govt. of India and also to the Directorate of Environment and Climate Change, Govt. of Kerala.
- (xvii) The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font of size of not less than 40.
- (xviii) The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.


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