

# **COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE**

**E.C. Letter No. F.No.J-11011/396/2012-IA II (I) Dated 03-07-2015)**

**(For the Period 1<sup>st</sup> April 2021 to 30<sup>th</sup> September 2021)**

**FOR**

**Proposed LPG Pipeline (199 Km) from Kochi Refinery to Kerala Border  
(near Palakkad) by M/s KSPPL, a joint venture of M/s. BPCL and M/s.  
IOCL.**

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# HALF YEARLY COMPLIANCE REPORT TO ENVIRONMENTAL CLEARANCE CONDITIONS (Period of Period 1<sup>st</sup> April 2021 to 30<sup>th</sup> September 2021)

## Proposed LPG Pipeline (199 Km) from Kochi Refinery to Kerala Border (near Palakkad)

**Status of Consent to Establish from KSPCB:** We have obtained consent to establish vide no.PCB/HO/EKM/ICE/20/2015 dated 31.07.15 for laying cross-country pipeline from Kochi Refinery of BPCL to Palakkad connecting IOCL Udayamperoor LPG plant and validity of the same was renewed up to 31.07.2023 vide no. R15ERNA-CTE-R-1201197 dated 10.07.2018. Consent to operate for Kochi Udayamperoor section is obtained vide no. PCB/EKM/DO2/ICO/287/2017 dated 30.06.17 and renewed up to 30.06.2024.

**KSPPL Project status:** Pipeline from BPCL Kochi refinery to IOCL Udayamperoor LPG bottling plant commissioned. Contracts awarded for pipeline from Kochi Refinery to BPCL Palakkad LPG bulk storage terminal and is in progress. Works at 14 Sectionalising Valve stations are also in progress.

### Compliance to Conditions of Environmental Clearance:

Sr. No.	Point	Compliance status
<b>A</b>	<b>Specific conditions</b>	
i.	Environmental Clearance (EC) has been granted for laying of LPG pipeline (199 Km) for Kerala State. In future, in case of change in the scope of the project, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	<p>EC for laying of LPG pipeline 199 Kms for Kerala State was granted on the name of M/s. Bharat Petroleum Corporation Limited Vide reference no. F. No. J-11011/396/2012-IA II (I) dated 03.07.2015.</p> <p>After formation of joint venture, Kochi Salem Pipeline Private Limited, we have applied to Ministry of Environment and Forest and Climate change for transfer of EC in name of joint venture so formed and obtained the approval for the same vide letter no. J-11011/396/2012 IA II (I) dated 30.09.15.</p> <p>Pursuant to this we proposed to re-route a portion of the pipeline in Palakkad District (28.87 Km Approx.) and obtained EC approval vide F No. J-11011/182/2016-IA II (I) dated 07.06.2017.</p>

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ii.	Prior clearance under the Wildlife (Protection) Act, 1972, shall be obtained from the Standing Committee of the National Board for Wildlife as the pipeline project passes through Eco-sensitive Zone of Peechi - Vazhani Wildlife Sanctuary.	The standing committee of National Board for Wildlife held on 15 <sup>th</sup> May, 2017 has cleared our proposal vide <b>F.No.6-69/2017 WL dated 2<sup>nd</sup> June, 2017.</b>
iii.	Forest clearance for the forest land involved in the pipeline project shall be obtained.	MoEF&CC, Bangalore Regional Office has accorded Stage 1 clearance vide F.No.4-KLB 1086/2016-BAN/61 dated 18th April, 2016 & NPV remitted to CAMPA account. Also Stage 1 clearance for wildlife portion obtained vide F.No.4-KLB 1086/2016-BAN/1259 dated 1st January, 2018 & NPV remitted to CAMPA account. We have obtained stage 2 clearance from MoEF&CC, Bangalore Regional office vide F No. 4-KLB 1086216-BAN/362 dated 15.06.2018. Also we have obtained Kerala Govt. order no. GO (Rt) 395/2018/F & WD dated 01.09.2018 for diversion of 0.758 Hectors of forest land for a period of 20 years.
iv.	The project authority i.e .M/s KSPPL shall ensure restoration of the Right of Way to preconstruction level as soon as construction activity completed. To ensure prevention of soil erosion, backfilled areas should be properly compacted.	We have so far completed 11 Kms of pipeline from Kochi Refinery to IOCL Udayamperoor and the restoration is complete. Also 116 Kms of pipeline completed from Kochi Refinery to Palakkad Section and restoration/compacting is in progress. 115 Kms restoration and backfilling completed and balance restoration / compacting nearing completion/in progress. Complied for KR-UP section. Shall be complied for KR-PKD section
v.	The design, material of construction, assembly, inspection, testing and safety aspects of operation and maintenance of pipeline and transporting the natural gas shall be governed by ASME/ANSI B 31. 8/831.4 and OISD standard 141.	Complied
vi.	Annual safety audit shall be carried out for the initial three years by an independent agency and report submitted to this Ministry for ensuring the strict compliance of safety regulations on operation and maintenance.	Shall be complied after completing the pipeline in line with the prevailing OISD safety guidelines. All statutory audits are being complied for the completed portion of the pipeline from KR - Udayamperoor.



vii.	The construction of pipeline particularly at the river and stream crossing shall be done during dry seasons to avoid disturbance of breeding seasons and soil erosion. The riverbed, embankments and dykes shall be restored adequately after installation of crossings.	This is being complied during the course of execution. We have completed the crossing of Korayar River, Kannadi River, Gayatri River and Mangalam River in Palakkad District and River bank stabilization is fully completed using embankment mattress & rubbles. Also, we have completed Periyar River in Ernakulam District, Chalakudy river, Kurumali river and Manali River 2 times in Thrissur District & some major lined canals by HDD method wherein banks are not disturbed.
viii.	Pipeline wall thickness and minimum depth of burial at river crossings and casings at rails, major road crossings shall be in conformity with ANSI/ASME requirements.	This is being complied during the course of execution.
ix.	The company shall follow horizontal drilling technique for lying of pipeline while passing through major rivers.	This is being complied during the course of execution. HDD activities for crossing Periyar river in Ernakulam District, Chalakudy river, Kurumali river and Manali River 2 nos in Thrissur District completed and in progress for Manali - 3 river.
x.	The project authorities shall install SCADA system with dedicated optical fiber based telecommunication link for safe operation of pipeline and Leak Detection System. Additional sectionalizing valves in the residential areas and sensitive location shall be provided to prevent the leaking of gas going to the atmosphere in the event of pipeline failure. Intelligent pigging facility shall be provided for the entire pipeline system for internal corrosion monitoring. Coating and impressed current cathodic protection system shall be provided to prevent external corrosion.	SCADA & APPS LDS is envisaged for the pipeline and the work is awarded and in progress. All the related materials/equipments received at site. Installation/testing is in progress.
xi.	The project authorities shall patrol and inspect the pipeline regularly for detection of faults as per OISD guidelines and continuous monitoring of pipeline operation by adopting non-destructive method(s) of testing as envisaged in the EMP. Pearson survey and continuous potential survey shall be carried out at regular intervals to ensure the adequacy of cathodic protection system.	Patrolling is being carried out for the completed 12 Kms pipeline from BPCL, Kochi Refinery to IOCL Udayamperoor.
xii.	All the recommendations mentioned in the risk assessment report shall be implemented.	This is being complied.

xiii.	All the issues raised during the public hearing/consultation meetings held on 18.04.2014 for Thrissur district, 21.05.2014 for Palakkad district, 22.05.2014 for Kakkanad Kochi district shall be satisfactorily implemented.	All the public hearing points are being taken care of during the execution.
xiv.	Necessary approvals from Chief Controller of Explosives must be obtained before commission of project. Requisite On-site and Off-site Disaster Management Plans shall be prepared and implemented. It is necessary that integrated DMP should be in place as the pipeline is passing through four Districts.	We have obtained PESO approval vide no. P-2(4)961 dated 22.07.15 for laying cross-country pipeline from Kochi Refinery of BPCL to Palakkad connecting IOCL Udayamperoor LPG plant. PESO license to commission Kochi Udayamperoor section is obtained vide no. P-2(4)961 dated 13.07.17. DMP for KR – Udayamperoor line is prepared in consultation with District administration authorities and nearby industrial units and is certified by PNGRB enlisted TPI M/s. TQ Services, Hyderabad. The QRA and ERDMP is prepared by PNGRB approved agency and the same was finalised.
xv.	The acoustic chambers/barriers should be provided for individual units wherever feasible in the compressor stations.	There are no compressor stations for the pipeline.
xvi.	The workers camp should have arrangement for safe drinking water, hygienic kitchen and sanitation facilities. The wastewater should be properly treated before disposal.	Complied
xvii.	The company shall obtain all requisite clearances for fire safety and explosives and shall comply with the stipulation made by the respective authorities.	Complied.
xviii	Occupational health surveillance of worker shall be done on a regular basis and records maintained as per the Factory Act.	Complied.
xix.	The Company shall harvest surface as well as rainwater from the rooftops of the buildings proposed in the project and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	Being complied.





xx.	At least 1% of the total cost of the project should be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details should be prepared and submitted to the Ministry's Regional Office at Chennai. Ms/ BPCL shall utilize the earmarked funds for implementation of sanitation program under Swach Bharat Abhiyan. Implementation of such program should be ensured accordingly in a time bound manner.	We are in discussions with the concerned authorities for freezing the proposals.  Rs 20 lakhs paid to District Collector, Thrissur towards setting up of Covid First Line treatment Centres.
<b>B</b>	<b>General conditions</b>	
i.	The project authorities must strictly adhere to the stipulations made by the Kerala State Pollution Control Board (KSPCB), State Government and any other statutory authority.	This is being complied.
ii.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied.	This is being complied.
iii.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Shall be complied.
iv.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. On all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986. Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	This is being complied.
v.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Complied.



vi.	Usage of Personnel Protection Equipments (PPEs) by all employees/ workers shall be ensured.	Complied
vii.	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	Complied
viii.	The company shall undertake all relevant measures for improving the socio economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	Shall be complied
ix.	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Shall be complied
x.	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Shall be complied
xi.	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forest as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	Being complied
xii.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any, were received while processing the proposal.	Complied

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xiii.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the Kerala State Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.	Complied.
xiv.	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Complied.  Construction works commenced on June 2017. However, there were objections from land owners for RoU acquisition. This was resolved through joint meetings with State Govt. officials, ministers, local leaders, District administration and people elected representatives. The laying jobs recommenced in full fledge from December 2018 and almost 80% construction work is completed. Site works suspended by consultant/all contractors with effect from 23.03.2020 due to strict lockdowns. Even though jobs recommenced, there were lot of travel restrictions & work restrictions due to containment zones & lockdowns imposed which affected the progress. Also the cyclone/low pressure affected heavy rains affected the progress badly in the state of Kerala. Kerala faced covid surge in 2021 also and workforce were severely affected by the pandemic in March to May 2021.  Severe rainfalls in May 2021, August to September 2021 affected works in water logged areas/hilly terrains which are balance.

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xv.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <a href="http://www.moef.nic.in">www.moef.nic.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Complied
xvi.	The project authorities shall inform the Regional Office 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 the project.	Complied

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