



KR.PET.5.EC

31st May 2021

Ministry of Environment, Forests and Climate Change
Regional Office (Southern Zone)
Kendriya Sadan, 4th Floor, E&F Wings, 17th main road
Koramangala –II Block, Bangalore – 560 034.

Kind Attn: Shri. E Thirunavukkarasu – Scientist D

Sub: HYCR of stipulated Environmental Conditions for the period October 2020 to March 2021.

Ref: MoEF&CC letter no. J-11011/26/2013-IA II (I) dated 12th May, 2015 granting Environmental Clearance for Propylene Derivatives Petrochemical Project (PDPP) by Bharat Petroleum Corporation Limited, Kochi Refinery, Ambalamugal, Ernakulam District, Kerala:

Respected Sir,

With reference to the above referred EC letter, please find enclosed the Half Yearly Compliance Report (HYCR) for the period 1st October 2020 to 31st March 2021 on various conditions laid down by MoEF&CC along with applicable annexures/updates.

Encl: Half yearly compliance report for the period October 2020 to March 2021

Thanking you,
Very truly yours
For BPCL Kochi Refinery

SREERAM A N
Chief General Manager (Project Technical & Petchem)

Copy to:

1. The Member Secretary (Industry –II)

Ministry of Environment, Forests and Climate Change (MoEF&CC)
Indira Gandhi Paryavaran Bhavan, Jorbagh Road, New Delhi, 110003

2. The Member Secretary
Central Pollution Control Board
Parivesh Bhawan, CBD-cum-Office Complex
East Arjun Nagar
Delhi – 110 032.
3. The Member Secretary
Kerala Pollution Control Board
Plamoodu Junction
Pattom (PO),
Thiruvananthapuram – 695 004
4. The Environmental Engineer,
Kerala State Pollution Control Board
District Office -2, Perumbavoor, Ernakulam.

Note : As per directive from Ministry of Environment Forest & Climate Change (MOEF&CC) siting notification published in Extraordinary Gazette No: 5845 dated 28th November 2018, regarding amendment to the EIA notification of 2006, **hard copies of attached HYCR is not being submitted and only soft copies are being submitted via email.**

Environmental Clearance (EC) compliance report for the period 1st October 2020 to 31st March 2021

Propylene Derivatives Petrochemical Project (PDPP) of BPCL-Kochi Refinery, EC clearance - J-11011/26/2013-IA II (I) dated 12th May 2015

S.No.as per Env.Ltr.No. J-11011/26/2013-IA-II (I), Dtd.: 12/05/2015

COMMENTS

Compliance Status

SPECIFIC CONDITIONS

I	M/s BPCL shall comply with new standards/norms for Oil Refinery Industry and petrochemical industry notified under the Environment (Protection) Rules, 1986.	The project / facility is complying with applicable standards and norms for Oil Refinery Industry and petrochemical industry notified under the Environment (Protection) Rules, 1986. The facility is currently understartup phase, two process units have started operation, continuous run and stabilization is yet to achieve, and third process unit startup is planned during June 2021. Stabilization& continuous operation of the complex is targeted to be achieved in a phased manner during the period June - Aug 2021.
ii	Continuous on-line stack monitoring for SO ₂ NO _x and CO of all the stacks shall be carried out. Low NO _x burners shall be installed.	There are no fired heaters or fired boilers in the project facility. Waste Incinerators installed in the complex are having low NO _x burners. Stack analyzers are commissioned, calibrated and ensured to be in working condition, Continuous on-line stack monitoring is ensured.
iii	The emission standards prescribed by the MOEF under Environment (Protection) Act for petrochemical industry shall be strictly followed. At no time, the emission levels shall	There are no fired process heaters /fired boilers in the PDPP Project. Two (2) Nos. of waste incinerators installed in the facility are designed to consume clean fuels like vaporized LPG/LNG.

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	<p>go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack emissions shall be monitored regularly.</p>	<p>The incinerators are operating complying with the prescribed emission standards. Stack emissions are also monitored regularly.</p>
<p align="center">iv</p>	<p>Leak Detection and Repair program shall be prepared and implemented to control HC/VOC emissions. Focus shall be given to prevent fugitive emissions for which preventive maintenance of pumps, valves pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given. A preventive maintenance schedule for each unit shall be prepared and adhered to. Fugitive emissions of HC from product storage tank yards etc. must be regularly monitored. Sensors for detecting HC leakage shall be provided at strategic locations.</p>	<p>Detailed leak detection and repair program for monitoring and repair of VOC leak points, leak detection and repair survey are already identified; the frequency of monitoring of leaks and schedule of repairs of leak will be as per CPCB guidelines for LDAR program/OISD 224 guidelines.</p> <p>Plant-wise PM check schedule for the periodic health check-up of the Rotary Equipment is prepared.</p> <p>All storage tank breathing vents are routed to incinerator as per design. Gas detectors are already provided at strategic locations.</p> <p>In order to reduce fugitive emissions of volatile organic compounds from the complex:</p> <ol style="list-style-type: none"> 1. Seallless canned pumps are installed in organic liquid services 2. Special gland packing material provided in valves to reduce fugitive VOC emissions from glands. <p>Hydrocarbon, toxic gases and VOC detectors are installed in the complex. Total number of 351 gas detectors and 8 VOC detectors are available in the complex.</p>
<p align="center">v</p>	<p>Total SO₂ emissions after implementation of PDPP including IREP SHALL NOT EXCEED</p>	<p>The fuel for firing in Incinerators is vaporized LPG/LNG having very low sulfur content.</p>

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	1561.4 Kg/hr.	The SO2 emissions after implementation of PDPP including IREP is not exceeding 1561.4 kg/hr.
vi	Continuous monitoring system for VOCs at all important places/areas shall be ensured. When monitoring results indicate above the permissible limits, effective measures shall be taken immediately.	Photo ionization detectors (fixed VOC meters) installed at eight (8) important locations in and around the PDPP units/other facilities for continuous monitoring of VOCs. These detector readings are being monitored and generation of alarm is configured in case of detection at ppm level.
vii	Ambient air quality monitoring stations (PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , H ₂ S, mercaptan, non-methane-HC and Benzene) shall be set up in the complex in consultation with Kerala State Pollution Control Board, based on occurrence of maximum ground level concentration and down-wind direction of wind. The monitoring network must be decided based on modeling exercise to represent short term GLCs.	One AAQMS STATION for continuous monitoring of SO2, NO-NO2, NOX, NH3, CO, OZONE, HC, H2S, MERCAPTAN, BTX, VOC, PM 10 (SPM), PM 2.5 (RSPM) and meteorological data etc. is already installed and powered ON at the location approved by Kerala State Pollution Control Board. Continuous monitoring is ensured. Air quality is ensured to be complying with NAAQES standards. The same is being connected to display board which is positioned facing PWD (public) road for visibility.
viii	Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry on 16 th November, 2009 and trend analysis w.r.t. past monitoring results shall also be carried out. Adequate measures based on the trend analysis shall be taken to improve the ambient air quality in the project area.	Ambient air quality data monitoring has started from new AAQMS installed in the complex along with existing AAQMS stations available around the refinery. Air quality is ensured to be complying with NAAQES standards.

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ix	<p>The gaseous emission from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Besides, acoustic enclosure/silencer shall be installed wherever noise levels exceed the limit.</p>	<p>Complied. Gaseous emissions from DG sets are designed to be dispersed through stack heights as per CPCB standards. Acoustic enclosure is installed for DG set.</p>
X	<p>Total fresh water requirement from Kochi Refinery for PDPP shall not exceed 493 m³/hr and prior permission shall be obtained from the concerned agency. No ground water shall be used.</p>	<p>The total fresh water requirement will be less than 493 m³/hr which is within the total sanctioned quantity of 3083.3 m³/hr for integrated refinery complex by Govt. of Kerala. The actual consumption for the complex is within the limit, complete compliance data will be available after stabilization of the facility, when units operate at design capacity.</p>
xi	<p>Industrial effluent shall be treated in the effluent treatment plant. Treated effluent shall be recycled/reused in the existing cooling tower. As proposed, high COD effluent shall be incinerated. Water quality of treated effluent shall be monitored regularly. Online water monitoring system shall be installed for important parameters.</p>	<p>Industrial effluents are incinerated or treated in ETP before final disposal through existing outlets. Also online water monitoring facility available at existing refinery effluent outlet.</p>
xii	<p>Oil catchers/oil traps shall be provided at all possible locations in rain/storm water drainage</p>	<p>Oil catchers/oil traps provided at necessary locations. Also rain /storm water outlet from each area is routed to retention pond, where</p>

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	system inside the factory premises.	quality of water is analyzed and ensured before routing to outlet.
xiii	Incinerator designed shall be as per CPCB guidelines.	Two numbers of incinerators installed within the PDPP complex ensure final effluent/emission quality as per CPCB guidelines.
xiv	The Company should strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000. Hazardous waste should be disposed of as per Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and amended time to time.	Disposal of Hazardous waste ensured complying to hazardous waste rules 2008.
Xv	Proper oil spillage prevention management plan shall be prepared to avoid spillage/leakage of oil/petroleum products and ensure regular monitoring.	Oil spillage prevention is taken care at the design stage itself. adequate facilities are maintained to prevent and contain oil spillage / storm water contamination for PDPP complex
Xvi	The company shall strictly follow all the recommendation mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP).	Complied to the points mentioned in CREP that is applicable for PDPP project
xvii	To prevent fire and explosion of oil and gas facility, potential ignition sources shall be kept to a minimum and adequate separation	PDPP facility is designed as per OISD & PESO guidelines and the facilities satisfy separation distances as specified by OISD standards 118 /other applicable and relevant conditions of Petroleum rules.

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	distance between potential ignition sources and flammable materials shall be in place.	PESO approval for commissioning of process units and related facilities are obtained, PESO storage license for all applicable products and intermediates obtained based on completion and site inspection by PESO/OISD officials.
xviii	All the recommendations mentioned in the rapid risk assessment report, disaster management plan and safety guidelines shall be implemented. Accordingly, provision of budget to be kept.	All recommendations mentioned in rapid risk assessment report implemented. Quantitative risk assessment also conducted and all recommendations implemented at applicable stages of project. Emergency Response and Disaster Management Plan prepared including scenarios identified during risk assessment report.
Xix	All the issues raised and commitment made during the public hearing/consultation meeting held on 23 rd December 2014 shall be satisfactorily implemented. Accordingly, provision of budget to be kept.	BPCL-KR has complied with commitment made during the public hearing/consultation meeting held on 23 rd December 2014. Status/closing comments on Public Hearing commitments was already submitted to MoEF&CC, RO along with previous HYCR (for the period April 2020- September 2020).
xx	At least 2% 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 Bangalore. Implementation of such program should be ensured accordingly in a time bound manner.	Action plan prepared and already submitted along with the previous compliance report (for the period April 2020- September 2020). Being implemented in consultation with local authorities/ Govt. departments/ administration based on requirements. Status of ESC spending is attached as Annexure 1 .

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Propylene Derivatives Petrochemical Project (PDPP) of BPCL-Kochi Refinery, EC clearance - J-11011/26/2013-IA II (I) dated 12th May 2015

xxi	Green belt shall be developed at least in 40 acres of land in and around the plant premises to mitigate the effects of fugitive emissions all around the plant as per the CPCB guidelines in consultation with DFO. Thick greenbelt with suitable plant species shall be developed around unit. Selection of plant species shall be as per the CPCB guidelines.	Green belt development completed for the project. Details are attached as Annexure 2.
xxii	Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	All necessary infrastructures, labor camps, medical facilities arranged during construction, precommissioning activities.
GENERAL CONDITIONS		
i	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and any other statutory authority.	BPCL-KR is adhering to the stipulations made by KSPCB, State Govt. and other statutory bodies. Consent to Operate obtained from KERALA -SPCB Consent No: PCB/HO/EKM-2/CO/09/2019 - Dated 20-08-2019
ii	No further expansion or modification in the project shall be carried out without prior approval of the Ministry of Environment & Forests. In case of	Complied.

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Propylene Derivatives Petrochemical Project (PDPP) of BPCL-Kochi Refinery, EC clearance - J-11011/26/2013-IA II (I) dated 12th May 2015

	<p>deviations or alterations in the project proposal from those submitted to this Ministry for clearance, 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>	
<p>iii</p>	<p>The project authorities must strictly comply with the rules and regulations under manufacture, Storage and import of Hazardous Chemical Rules, 2000 as amended subsequently. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable.</p>	<p>For PDPP project, BPCL-KR has obtained all necessary approvals from Kerala Factories & Boilers, Chief Controller of Explosives, Fire Safety Inspectorate etc. wherever required. BPCL-KR will comply with the rules and regulations under manufacture, Storage and import of Hazardous Chemical Rules, 2000.</p> <p>PESO prior approval was obtained for overall plot plan, overall area classification, fire water layout, equipment layout of individual facilities inside the complex vide. Letter P 5(2)496 /Refinery - dated 07-12-2016</p> <p>Process units commissioning approval obtained from PESO vide following letters, P 5(2)496 /Refinery II dated 04-08-2020, P 5(2)496 /Refinery II dated 16-12-2020, and P 5(2) 496 /Refinery II dated 28-01-2020</p> <p>PESO License for storage was obtained as applicable under Storage License numbers P/HQ/KL/15/1336 (P485172) & P/HQ/KL/15/1337 (P485168).</p> <p>Kerala Factories and Boilers had accorded permit to construct the facility vide. Permit number 109/2019Ddoc No.T3/10811/2019/F&B/R Dis, Dated 08-05-2019</p>

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		<p>After completion, Factory license was amended by Kerala Factories and Boilers including PDPP project facilities. Amendment of factory license including PDPP project, Permit No.109/2019; Amendment letter dated 16-Sept-2020.</p> <p>NOC was obtained from Kerala Fire and Rescue department for the facility.D1-7904/2016 - Dtd.14.12.2018 from Regional fire office Ernakulam, Kerala.</p>
iv	<p>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 EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).</p>	<p>The overall noise level are limited at the fence as prescribed under EPA rules/ SPCB advisory.</p> <p>Noise control measures including acoustic hoods and silencers, enclosures on all sources of noise generation are installed as per design of the facility.</p> <p>Regular monitoring of Noise levels at boundary areas conducted by dedicated team to ensure the same.</p>
V	<p>A separate Environmental Management Cell equipped with full-fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.</p>	<p>BPCL-KR is having a separate Environment Management section to carry out environmental management and monitoring functions. We have well equipped Centralized Quality Control Laboratory for PDPP project related monitoring activities.</p>
vi	<p>Adequate funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures and shall</p>	<p>BPCL-KR has earmarked adequate funds for environment pollution control measures. The funds are utilized / planned for installing, operating and maintaining</p>

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Propylene Derivatives Petrochemical Project (PDDP) of BPCL-Kochi Refinery, EC clearance - J-11011/26/2013-IA II (I) dated 12th May 2015

	be used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.	<ol style="list-style-type: none"> 1. Conventional and Submerged type, liquid and gaseous waste incinerators online to meet final effluent quality. 2. AAQMS station and monitoring facilities online 3. VOC meters for continuous monitoring of 4. LDAR program for operation phase of the complex. <p>Greenbelt development and maintenance activities are also ensured.</p>
vii	The Regional Office of this Ministry/Central Pollution Control Board/State Pollution Control Board will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Six monthly compliance reports being submitted by BPCL-KR at stipulated interval.
viii	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the Company by the proponent.	BPCL-KR has complied with this condition. Copies of clearance letter was sent to all local bodies.

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ix	<p>The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely: PM10, PM2.5, SO2, NOx, HC (Methane of Non-methane), VOCs (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	<p>Six monthly compliance reports being submitted without fail by BPCL-KR after receipt of the Environmental Clearance for the PDPP project. The same being sent to the Regional Office of MoEF&CC and also uploaded in the BPCL website.</p> <p>The criteria pollutant levels namely: PM10, PM2.5, SO2, NOx, HC, VOCs being monitored utilizing a combination of</p> <ul style="list-style-type: none"> - 350 Nos. of HC/Hydrogen /other detectors installed and continuously monitored in the complex. - 8 Nos. of Photo ionization detectors installed for continuous VOC detection <p>AAQMS station at location approved by KSPCB. Display of ambient air quality at a convenient location near the main gate of the company in the public domain is being arranged before continuous run of facility is established.</p>
x	<p>The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry/CPCB/SPCB shall monitor the stipulated conditions.</p>	<p>Six monthly compliance reports were submitted by BPCL-KR after receipt of the Environmental Clearance for the PDPP project. The same was sent to the Regional Office of MoEF&CC and uploaded in the BPCL website.</p>
xi	<p>The environmental statement for each financial year ending 31st March in Form-V as is mandated</p>	<p>BPCL-KR will comply. Environment statement will be submitted</p>

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Propylene Derivatives Petrochemical Project (PDDP) of BPCL-Kochi Refinery, EC clearance - J-11011/26/2013-IA II (I) dated 12th May 2015

	<p>to be submitted by the Project proponent 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 conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.</p>	<p>once, facility operation is stabilized to generate continuous operating data.</p>
<p align="center">xii</p>	<p>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 and may also be seen at website of the Ministry of Environment and Forests at http://envfor.nic.in. 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 the copy of the same shall be forwarded to the Regional Office.</p>	<p>BPCL-KR has complied with this condition.</p>
<p align="center">xiii</p>	<p>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 commencing the land development work.</p>	<p>Investment clearance from Board obtained on 03.12.2014 and land development started subsequently. Currently the project is startup phase.</p>

Enterprise Social Commitment (ESC)- Schemes completed/under progress
Propylene Derivatives Petrochemical Project (PDPP) – BPCL Kochi Refinery

Status as on April 2021

Area of spending	Schemes	Amount (Rs. Crore)	Remarks
Infrastructure Development	Construction of road to residential area near PDPP and rerouting the canal	25.15	Completed
	Rejuvenation of Ponds and canals near refinery/PDPP site	0.73	Continues
	Rural road development (near refinery/PDPP site)	2.36	Continues
	Support for indoor stadium for local public at Kunnathunadu Grama panchayat	0.39	Continues
	Support for the construction of crematorium in Poothrikka Grama Panchayat	0.50	Continues
	Setting up of Cyber Dome for social media and internet monitoring at Kochi by Kerala Police	1.00	Completed
	Support for construction of new building for Library in Thiruvaniyoor Grama Panchayat	0.23	In progress
	Rehabilitation of residents (Urban Poor) at Vennalappara	0.57	Continues
Health, Nutrition & Hygiene	COVID related sanitization works in the area and related jobs	0.17	Completed
	Provision of food and provisions for nearby areas and colonies during lock down period	0.20	Completed
	Medical camp at various locations	0.08	Completed
Education	Construction of toilets in schools in Thiruvaniyoor Grama Panchayat	0.60	Completed
	Swachh Vidyalaya in Vadavucode Puthencruz Grama Panchayat	0.56	Completed
	Swachh Vidyalaya in Tripunithura Municipality	0.27	Continues
	Construction of new school building for Irumpanam Lower Primary Schools - Tripunithura Municipality	0.39	Continues.
	Vidyadhanamproj - one time scholarship scheme for children of Kochi city	0.50	Completed
	Infrastructure development at Govt Schools	0.28	Completed
Skill development	Safety Training vehicle for Factories & Boilers (to create safety awareness among children and industrial workers)	0.68	Continues.
Total		34.66	

ANNEXURE -2

Green Belt Development compliance status

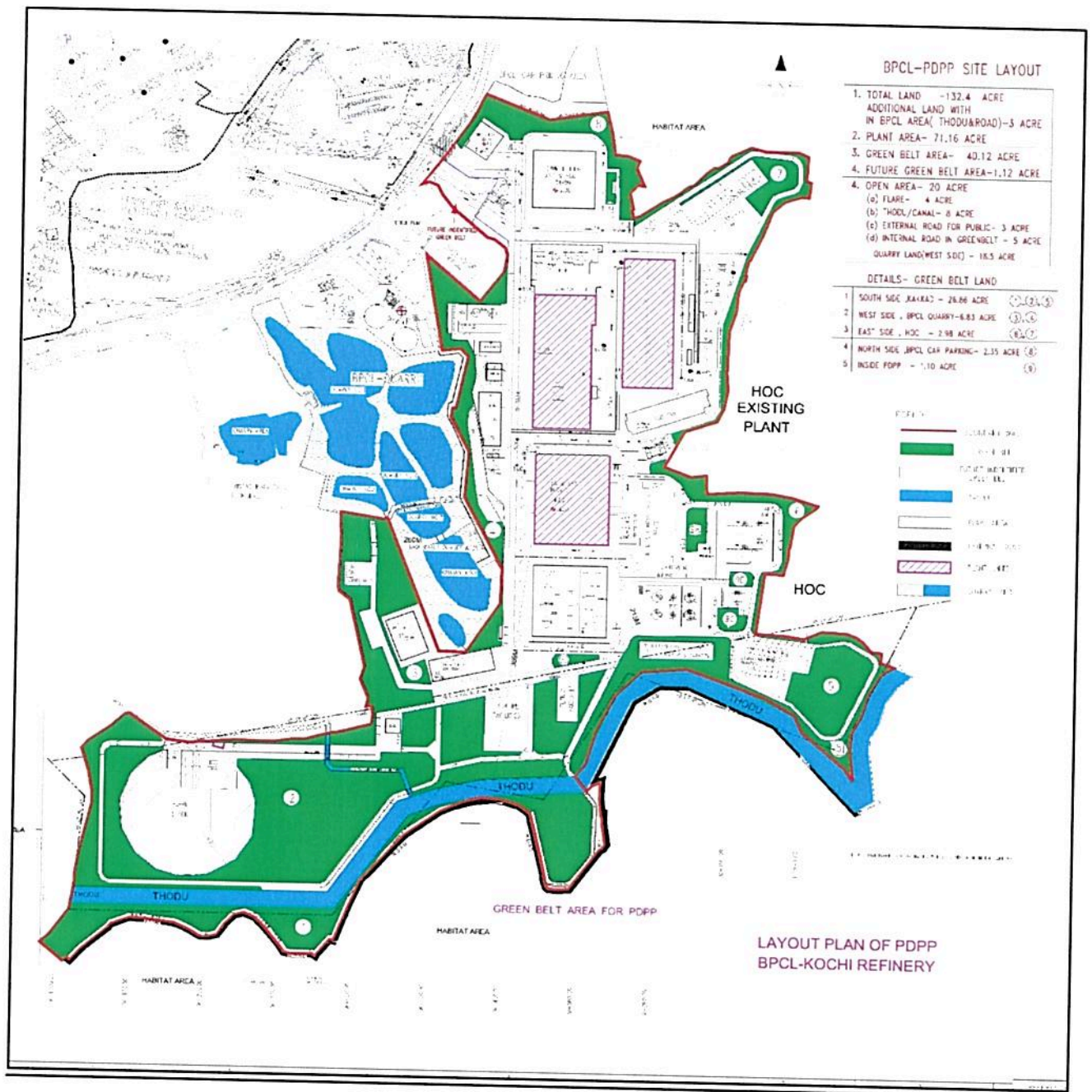
As per the EC conditions, Green belt to be developed at least in 40 Acres of land in and around the plant premises. The latest compliance status of Green belt development – PDPP Project is provided below.

Green Belt details		Status (April 2021)	
Green belt area requirement		Specific condition xxi of EC clearance letter- 40 Acres	
Green belt compliance status		40 Acres greenbelt development was completed on 31.03.2021.	
Details of plantations		Total saplings : 25768 Nos. of saplings	
Details of plant species		Identified in consultation with Dr. Induchoodan, Retd. Deputy Conservator of Forests at Kerala forest Department	
SL. No	Year (FY)	No. of trees survived	Area of green belt developed
1	2017-2018	510	0.91 ACRES
2	2018-2019	2519	1.84 ACRES
3	2019-2020	697	1.33 ACRES
4	2020-2021	22042	36.02 ACRES
TOTAL		25768	40.1 ACRES

Note:

- Miyawaki forests being developed in selected locations of PDPP greenbelt in a total of 65 Cents of land for the faster and denser development of green belt.
- Areas marked in green shades – plantation is completed by 31st March 2021.(40 Acres)

GREEN BELT DEVELOPMENT AREA MARKED IN LAYOUT – APRIL 2021



PHOTOPGRAPHS OF GREENBELT DEVELOPMENT (MARCH -2021)





