

**GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(IA DIVISION-INDUSTRY-2 SECTOR)**

Dated: 24.07.2023

**Meeting ID: IA/IND2/13528/17/07/2023
MINUTES OF MEETING OF THE EXPERT APPRAISAL COMMITTEE
(INDUSTRY-2 SECTOR PROJECTS)
HELD ON 17th July, 2023**

**Venue: Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110003
through Video Conferencing (VC)**

(i) Opening Remarks by the Chairman: The Chairman made hearty welcome to the Committee members and appreciated the efforts of the Committee. After opening remarks, the Chairman opened the EAC meeting for further deliberations.

(ii) Confirmation of minutes: The EAC, having taken note that final minutes were issued after incorporating comments received from the EAC members on the minutes of its Meeting (ID: IA/IND2/13523/26/06/2023) held on 26th June, 2023 conducted through Video Conferencing (VC), confirmed the same. After welcoming the Committee Members, discussion on each of the agenda items was taken up ad-seriatim.

(iii) Details of the proposals considered during the meeting conducted through Video Conferencing (VC), deliberations made and the recommendations of the Committee are explained in the respective agenda items as under: -

17th July, 2023 (Monday)

Agenda No. 01

Proposal for Installation of Polypropylene (PP) unit at Rasayani and Interconnecting Pipelines from BPCL Mumbai Refinery (MR) to Rasayani–Re-consideration of Environment Clearance reg.

[IA/MH/IND2/74952/2018, IA-J-11011/168/2018-IA-II(I)]

The proposal was earlier considered by the EAC (Ind-2) in its meeting held during November 20-22, 2019, December 30-31, 2019 & 01st January, 2020 and January 21-23, 2020 respectively wherein EAC **recommended the project for grant of Environmental & CRZ clearance** subject to submission of '**Stage-1 forest clearance**' as per the provisions of the Forest (Conservation) Act, 1980. Further, information desired by the EAC and responses submitted by the project proponent is as under:

S. No.	ADS by MOEFCC	Reply of PP
1	Forest Stage-1 Clearance to be submitted.	Stage -1 Forest Clearance was obtained from MoEF&CC, Nagpur vide F.No. FC-II/MH-163/2021-NGP/10134 dated 10.08.2022 and is uploaded on parivesh portal.
2	Confirmation for the total requirement of Forest Land vis-à-vis Stage-1 FC is available sought.	<p>Bharat Petroleum Corporation Ltd has proposed to lay petroleum product pipelines (4 nos) from Mumbai Refinery to Proposed Poly propylene plant at Rasayani. The pipelines are of different sizes having diameters 18" Multiproduct, 10" Lube oil, 10" Unconverted oil & 8" polypropylene with approx. 40 km length, passing through MBPT, Belapur Creek, CIDCO, NH348, Cross Country section and is passing through forest area in the cross country section and finally terminating at Rasayani Plant.</p> <p>In forest area it is passing through some of Mangrove areas across Belapur creek shores in Mahul villages at Mumbai side and village Ulve, Sonkhar, Owle & Pargaon</p>

Dungi, in Panvel Taluka. In FC portion the pipeline is proposed to pass through villages Wahal, Sirdhon, PargaonDungi, Karanjade, Somtane, Narpoli and DevloliBudruk in Panvel area.

The total forest area affected by laying pipeline in villages from Mumbai to Rasayani is as follows.

1) Mahul	-	7.8013 ha
2) Belapur creek area	-	7.0141 ha
3) Ulve	-	1.5399 ha
4) Sonkhar	-	2.0065 ha
5) Owle	-	1.4490 ha
6) PargoanDungi	-	0.0338 ha
7) Karanjade	-	0.3041 ha
8) Shirdhon	-	1.1712 ha
9) Somtane	-	0.3359 ha
10) Narpoli	-	0.7839 ha
11) Devloli	-	0.5253 ha
Total	-	22.9648 ha

Division wise diversion of forest areas are given below.

1. Forest in Mahul Division (Mangrove) - 7.8012 Ha
 2. Forest in Alibag Division (Mangrove) – 11.0716 Ha
 3. Forest In Alibag Division (Other Forest) – 4.0920 Ha
- Total - 22.9648 ha**

Above forest areas has been surveyed and vetted by Deputy Conservator of Forests (DCF), Chief Conservator of Forests (CCF) and Nodal after carrying out detailed Scrutiny of the proposal. Subsequently Stage – I Forest Clearance was granted by Regional Office, MoEFCC, Nagpur.

The Compensatory Afforestation (CA) land has been identified in following villages and has been approved by DCF, Alibag and the same is part of the forest proposal.

1) Palaspe, Tal, Panvel	-	10.00 ha
2) Morba, Tal. Panvel,	-	15.00 ha
3) Kashele, Tal. Karjat	-	08.00 ha
4) Ganegaon, Tal. Karjat	-	13.00 ha
Total	-	46.00 ha

		<p>There is no development in Mangrove areas and in other forests areas, so its status till date is forest hence the area required for project remains as forest only. Since the pipeline shall be passing underground in those forest areas, it will not affect forest land and its title.</p> <p>As per the above statement, we confirm that the total requirement of Forest Land vi-a-vis stage I forest clearance is available.</p>
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The proposal was re-considered by the EAC (Ind-2) in its meeting ID IA/IND2/13414/09/01/2023 held during January 09-10, 2023 wherein the proposal was deferred for want of additional information. Information desired by the EAC and responses submitted by the project proponent is as under:

S. No.	ADS by MOEFCC	Reply of PP
1	<p>It was also suggested that AAQ data (except monsoon) at 8 locations for PM₁₀, PM_{2.5}, SO₂, NO_x, CO and other parameters i.e. HC, Ozone, BTX and Ammonia shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.</p>	<p>Fresh baseline data was collected during March-May 2023 at 10 locations. Air quality samples considering parameters such as PM₁₀, PM_{2.5}, SO₂, NO_x, CO, HC, Ozone, BTX and Ammonia were collected as per CPCB guidelines. The analysis of baseline data collection is provided in revised Chapter-3 of EIA report.</p>
2	<p>PP shall also confirm that Pipeline is not passing through ESZ of Thane Creek Flamingo Sanctuary. PP shall provide Map indicating distance of project from the nearest boundary of ESZ authenticated by PCCF/Wildlife warden.</p>	<p>The proposed pipelines are not passing through ESZ areas of Thane Creek Flamingo Sanctuary. Authenticated NOC from Additional Principal Chief Conservator of Forest (APCCF) indicating distance from project from the nearest boundary of ESZ vide letter no. S.Room-3/land/424/2023-24 dated 12/06/2023 is obtained and</p>

		uploaded on Parivesh portal.
3	Copy of MCZMA recommendations dated 19.11.2019.	The proposal was presented before 138 th meeting of Maharashtra Coastal Zone Management Authority (MCZMA) on 10/10/2019 for CRZ recommendation. After detailed discussion and deliberation, MCZMA recommended the proposal to MoEFCC vide letter no. CRZ 2019/CR 153/TC4 dated: 19.11.2019. The same is uploaded on Parivesh portal.

The Project Proponent and the accredited Consultant M/s. Engineers India Limited (NABET certificate no. NABET/EIA/1922/RA0189_Rev01 and validity 22/11/2023) made a detailed presentation on the salient features of the project and informed that the proposal is for environmental clearance to the project of, "Installation of Polypropylene (PP) unit at Rasayani and Interconnecting pipelines from BPCL Mumbai Refinery (MR) to Rasayani by M/s. Bharat Petroleum Corporation Limited (BPCL)".

The project/activity is covered under category A of items 5(c) "Petro-chemical complexes" and 6 (a) "Oil & Gas transportation Pipeline" of Schedule of Environmental Impact Assessment (EIA) Notification 2006 and requires appraised at Central Level by Expert Appraisal Committee (EAC).

The details of unit capacities, product pattern and proposed pipelines are as under:

Unit Capacities

S. No.	Unit	Existing Quantity (KTPA)	Proposed Quantity (KTPA)	Total Quantity (KTPA)
01	Polypropylene Unit	0	450	450

Associated facilities such as utility plants, tankages and dispatch facilities shall be installed, commensurate with above process capacities.

Product Pattern:

S. No.	Product/ By-product	Existing Quantity (KTPA)	Proposed Quantity (KTPA)	Total Quantity (KTPA)
1	Polypropylene	0	450	450

Details of Pipelines interconnecting BPCL Mumbai Refinery and Rassayani

S. No.	Pipelines From BPCL-MR to Rasayani plant	Diameter	Throughput
01	Propylene Pipeline	8"	0.45 MMTPA
02	Multi product Pipeline (MS/ HSD/ SKO/ ATF/Naphtha)	18"	6.4 MMTPA
03	Lube Oil Pipeline	10"	0.45 MMTPA
04	Unconverted Oil (UCO)/ Light Gas Oil (LGO) Pipeline	10"	1 MMTPA

Bharat Petroleum Corporation Limited (BPCL) has proposed a Polymer Grade Propylene plant at Rasayani, approx. 50 km from Mumbai Refinery. Ministry has issued standard Terms of Reference (TOR) for carrying out EIA study vide letter no. No. IA-J-11011/168/2018-IA-II(I) dated 17th June, 2018. PP has informed that no litigation pending against the proposal.

Public Hearing for the proposed project has been conducted by the Maharashtra State Pollution Control Board on 24.09.2019 at Rasarang Building, HOC Colony, Taluka Khalapur, Raigad district, Maharashtra near to the proposed project site. The hearing was presided over by the Additional District Magistrate, Raigad. During public hearing local people raised issues regarding Environment, Health, Employment opportunities and Compensation for land. BPCL has planned various measures for addressing these issues, which are elaborated as below:

A. Employment

During the execution of the project and operation phase of unit, it is expected that lot of direct & indirect employment opportunities will come up for people residing in and around the area. BPCL will initiate Skill development activities by taking help of local administration, whereby local youth will be trained for future employment opportunities. BPCL has carried

out need assessment survey in the surrounding 11 villages through Tata Institute of Social Studies (TISS). The recommendations in this survey regarding the skill development will also be implemented. Estimated expenditure planned for skill development is Rs. 2 Crs in next five years.

B. Environment

A state of the art facilities with integrated environmental and safety controls conforming to relevant Indian & International standards will be built for safe handling of raw materials and products.

A new Wastewater Treatment plant will be provided for the proposed PP plant at Rasayani. This will be a Zero-Liquid Discharge (ZLD) plant. The treated water will be reused as cooling tower make up & for horticulture.

For preventing Air pollution, Flare Gas Recovery system to recover flare gas, RLNG gaseous fuel in all boilers to minimize air emission, low NO_x burners in boiler will be provided. All relevant emission standards will be met. Stack monitoring and Air monitoring stations with real time data feed to MPCB will be installed.

Green belt shall be developed around the plant facilities.

In addition to development of green belt of proposed project, BPCL will be carrying out plantation of trees in nearby 17 acre plot of Forest Land. Around 5000 trees will be planted incurring expenditure of about INR 1 Cr.

C. Safety

The layout and construction of all the facilities shall be in accordance with applicable statutory guidelines viz. OISD (141, 144, 244), PESO, NFPA and other government authorities. The plant will be of state of art proven technology and multiple level fail-safe safety systems. Also, Sophisticated DCS system with SIL-3 certification with Gas detectors and Hydrocarbon sensors at all critical locations will be provided.

D. Compensation for land

The proposed project will be implemented within the plot area purchased in Rasayani as per the GOI directive/policy. However, Government of Maharashtra had appointed a committee under the Chairmanship of Konkan Divisional Commissioner to look into the demand of the local people. The report of the committee is ready and will be submitted soon. BPCL will follow the directives received by State government in this regard.

E. CER Initiatives

BPCL has carried out Refurbishment of nearby ITI at Panvel for benefit of the students at an expenditure of Rs. 68 Lakhs. BPCL will also take up Health initiatives like providing Mobile Medical van in the surrounding villages and plan to take up Renovations of government schools under the guidance of District Education department. Corporate Environment Responsibility (CER) is planned during construction period and around 40.16 crores will be spent for the development of surrounding areas & betterment of people.

F. Pipeline ROU

The alignment of pipeline is passing through the fields/open areas and the pipeline alignment is located at minimum 80m away from the any dwelling units. The details of the survey numbers through which pipeline passing through will be notified in local newspaper. The ROU for the pipeline shall be acquired under PMP act 1960. Competent authority has been appointed by Govt of Maharashtra for finalisation of compensation towards ROU.

PP has informed that 505 written queries & questions were received during the Public hearing at Rasarang Hall on 24th Sept 2019 about BPCL's Polypropylene and cross country Pipeline project. However, on close scrutiny of the letters it is noticed that most of the letters are having same content and are identical copies with different signatories. Hence these letters were clubbed and consolidated replies are given as below:

Pattern	Signatories of letters from Villages	No. of Letters	General Content of letters	BPCL Reply
A	Turade, Savle, Dapivali, Chambharli, Devloli, Navin Posari, Khane Ambivali	267	The project will lead to pollution and it will affect the people's health. This will cause diseases like cancer, deficiency in reproductive system and general health problem.	Based on EIA report, all environmental parameters will remain well within prescribed limits during construction & operation phases of the project. Propylene is the major raw material and it is non-toxic, non-carcinogenic, non-mutagenic & non-teratogenic, so the apprehensions

				<p>are incorrect.</p> <p>Further, state of the art facilities with integrated environmental and safety controls conforming to relevant Indian & International standards will be built for safe handling of raw materials and products.</p> <p>Budgetary provision & timelines for the same are provided in CER which is given below.</p>
B	Dapivali	81	<p>The project is very close to our village. The project is at 500 mtr. Distance from Karnala Bird Sanctuary. The project is dangerous to human life and will cause diseases like cancer, reproduction problem etc. deficiency in reproductive system etc.</p>	<p>Environmental Impact assessment is carried out and does not show any adverse impacts on Karnala Bird Sanctuary.</p> <p>Based on EIA report, all environmental parameters will remain well within prescribed limits during construction & operation phases of the project.</p> <p>Propylene is the major raw material and it is non-toxic, non-carcinogenic, non-mutagenic & non-teratogenic, so</p>

				<p>the apprehensions are incorrect.</p> <p>Further, state of the art facilities with integrated environmental and safety controls conforming to relevant Indian & International standards will be built for safe handling of raw materials and products.</p> <p>Conservation plan for schedule-I species has been made by BPCL and Rs.50 lakh will be allocated by BPCL towards wildlife conservation activities.</p>
C	Dapivali	83	<p>This project is shifted from Mahul and Uran as it is creating health problems in that area. There is a population of 40,000 to 50,000 within a distance of 3 to 4 km from the project location.</p>	<p>BPCL has a Refinery in Chembur area and LPG plant at Uran. The subject is a new plant and not being shifted from Chembur or Uran.</p> <p>Based on EIA report, all environmental parameters will remain well within prescribed limits during construction & operation phases of the project. Budgetary provision & timelines for the</p>

				same are provided in CER which is given below.
D	Mohopada, Wasambe, Chambarli, Khane Ambivali,	74	This project is dangerous to human being and animals. There is a possibility of gas leak incident like Bhopal. This project will cause disease like cancer, skin diseases and asthma. This will cause environment pollution.	Based on EIA report, all environmental parameters will remain well within prescribed limits during construction & operation phases of the project and does not show any adverse impact on surrounding areas. Propylene is the major raw material and it is non-toxic, non-carcinogenic, non-mutagenic & non-teratogenic, so the apprehensions are incorrect. Budgetary provision & timelines for the same are provided in CER which is given below.
E	Grampanchayat Devloli (Sarpanch)	2	There is no buffer zone between Villages, Houses and project. The details of pipeline passing through the land and Gavthan. We are not clear how the project will affect the land and property belonging to people. Hence permission to be granted only after	The Pipeline Right of User will be acquired as per provisions of Petroleum and Minerals Pipelines (Acquisition of Right of User inland) Act, 1962. The route maps and other details have been frozen by BPCL and submitted to SDO, Panvel who is Designated as Competent

			submission of Land Survey Numbers and NOC from MMRDA and MSRDC.	Authority under the Act. After scrutiny by Revenue Department, the final route details will be published in all leading Newspapers. All necessary NOCs will be obtained by BPCL before commencement of pipeline laying works.
F	Group Grampanchayat, Wasambe-Mohapada (Sarpanch)	1	This project is being shifted from Chembur Mumbai. There was an explosion in Chembur plant on Dated: 8-8-2018. People are afraid because of this incident. There is danger to human life because of this project.	The subject is a new plant and not being shifted from Chembur or Uran. State of the art facilities conforming to relevant Indian & International standards with fail-safe systems will be built for safe handling of raw materials and products. Rapid Risk Assessment study has been carried out for proposed facility and its recommendations will be suitably implemented.
G	Group Grampanchayat Waveghar (Gramsevak)	1	It is understood that BPCL Company project will generate poisonous gas and liquid. People are afraid that this will cause	Based on EIA report, all environmental parameters will remain well within prescribed limits during construction & operation phases

			danger to human life in this area.	of the project and does not show any adverse impact on surrounding areas. There will be nopoisonous gas and liquid generation from the proposed plant.
H	Mohan Balkrushna Deshmukh (Devlooli)	1	This letter gives references of various documents related to incidents such as explosion in Mumbai refinery on 8-8-2018. The incident of gas leak in ISRO plant on 13-12-2018 and paper articles. Suggestions / Objections mentioned are 1. Land acquisition act 1963 to be applied 2. This project is at 300 m from ECO sensitive zone from Karnala Bird Sanctuary 3. Resettlement of people should be done as per 2013 act. 4. Buffer zone should be applied.	1. There is no land acquisition. Land parcel is been procured from HOCL as part of restructuring plan approved by NITI Ayog 2. Yes- project is outside the Eco sensitive zone of Karnala Wild Life sanctuary 3. There is no resettlement of people – the proposed PP project will be entirely within HOCL factory plot

			<p>5. 33% area should be develop as green belt.</p> <p>6. Minimum 68 m distance to be left between pipeline and houses.</p> <p>7. Pipeline land survey numbers to be verified for any legal matters.</p> <p>8. Environmental parameter to be checked and limits to be followed</p> <p>9. implementation of CSR activities about education and health should be mention</p> <p>10. K.E.M. Hospital has observed that people in Mahul are affected by breathing problems, Skin problems, Eyes problems and Hair problems. This should be noted while giving permission to the project.</p> <p>11. Project affected people should be</p>	<p>4. For Pipelines all statutory buffer zones shall apply.</p> <p>5. Green belt will be developed as per MOEF & CC Norms-</p> <p>6. Yes- will be maintained.</p> <p>7. Yes- process is currently ON</p> <p>8. Yes- will be done regularly during entire project life cycle</p> <p>9. Yes- CER funds will be used for Health, Social welfare and education as committed during Public Hearing.</p> <p>10. Mahul is a complex area having very large amount of traffic and industrial sources – there is no direct linkage to BPCL attributed in the KEM report for Mahul.</p>
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			made shareholders and should be given priority in job all location.	11. All recruitments will be carried out as per Government norms.
I	Khane Ambivali	1	BPCL project is dangerous project. It is close to human population of 1 lakh. It should be made clear that who will give Compensation if there is any explosion or Death of people due to project. Also there is water shortage in this area.	Based on EIA report, all environmental parameters will remain well within prescribed limits during construction & operation phases of the project and does not show any adverse impact on surrounding areas. Further, state of the art facilities with integrated environmental and safety controls conforming to relevant Indian & International standards will be built for safe handling of raw materials and products. Water will be sourced from MIDC. Budgetary provision & timelines for the same are provided in CER which is given below.

Replies to written queries submitted by a resident Shri Sameer Khane at Public Hearing venue are also given below:

Sr. No.	Query raised	BPCL Reply
1	Whether TOR of proposed existing project has been fully complied with?	Yes – compliance to TOR has been complied and given in Chapter 1 of the EIA report.
2	Kindly provide copy of Environmental clearance, CRZ clearance, Forest clearance and any other approval obtain for this project.	Public Hearing is one of the step for obtaining EC. Other statutory clearances are applied for and in various stages of approval.
3	Kindly Provide copy of compliance report of Environmental clearance, CRZ clearance, forest clearance. Obtained for this existing project.	Refer Point No. 2 as above.
4	Kindly provide copy of all approvals obtained from Honorable Mumbai High Court regarding mangroves with respect to existing as well as proposed project / facilities.	Permission from Mumbai HC will be applied only after obtaining final EC &CRZ clearance for Pipeline project from MoEFCC and Final Approval from MoEFCC under Indian Forest Act'1980. This is in line with the directives of Mumbai HC in regard with mangroves.
5	Whether EIA prepared for proposed project is as per MoEF guidelines?	Yes
6	Kindly provide details of area of mangroves and mudflat affected due to proposed project along with geographical coordinates and colored map.	Marine Impact Assessment (MIA) & CRZ reports provided in EIA report in which all details of CRZ maps are provided.
7	Kindly provide details of area of mangroves. And mudflat affected due to existing project along with geographical coordinates and	Repeated (Refer point No.6).

Sr. No.	Query raised	BPCL Reply
	coloured map.	
8	Kindly provide details of consultant who has prepared EIA report of proposed project Whether Consultant is accredited by QCI NABET? Kindly enclosed copy of accreditation certificate provided by NABET.	<p>M/s Engineers India Ltd. (EIL) - Accredited by QCI- NABET has studied Environmental Impacts of Polypropylene and Interconnecting Pipelines project. Certificate of accreditation is provided in EIA report.</p> <p>National Institute of Oceanography (NIO), a CSIR Institution prepared Marine Environmental Impact Assessment study which is included in the EIA report.</p> <p>Institute of Remote Sensing (IRS), Anna University, Chennai has studied CRZ aspects of the pipeline project – they are one of the eight agencies accredited by MoEFCC for preparing CRZ maps under CRZ Rules 2011.</p>
9	Kindly provide copy of Marine EIA report if available.	Available as part of EIA report submitted by EIL.
10	Honorable Supreme Court vide their order dated 11 th December with respect to Writ Petition no. 202 of 1995 of T. N. Godavarman V/S. Union of India has declared Eco Sensitive Zone up to 10 km. from Thane creek Flamingo Sanctuary	Thane Creek Flamingo Sanctuary is located more than 10 km from the HOCL site and hence site is not affected by Supreme Court Order. The pipeline is passing 5.5 km distance from ESZ area of Thane Creek Flamingo Sanctuary.
11	Kindly provide details of action taken against the recent incident, wherein one monkey and one blue rock pigeon suffered / died due to gas leakage from unit at Rasayani near proposed project.	The incident happened in premises of ISRO which has taken part of HOCL factory plot. BPCL is not having any manufacturing activity in the Rasayani area and thus has no role in the gas leakage.
12	What are the measures proposed at proposed site to avoid such	Polypropylene manufacturing is a closed process without any process

Sr. No.	Query raised	BPCL Reply
	circumstances /incidents?	<p>heaters. Moreover, boilers will use Natural gas as fuel and hence emissions will be minimal and within prescribed limits.</p> <p>M/s EIL has carried out Rapid Risk Assessment study for proposed facility and its relevant recommendations will be suitably implemented."</p>
13	Proposed project is located at the bank Patalganga river. According to CPCB report, Patalganga river is classified as polluted river. What are measures proposed to improve water quality of Patalganga river?	Polypropylene process generates minimal non-hazardous effluent. State of the art Effluent treatment plant will be set up for treating this generated effluent meeting prescribed limits. It is proposed to reuse treated effluent. Hence, proposed project will not affect Patalganga River water quality."
14	According to CPCB report Patalganga river is highly polluted, under chapter STW 1 of water tourism project proposal scored all points. Even though project proposal is below permissible limit kindly explain.	Refer answer to point no. 13 as above.
15	Kindly describe in detail about area of proposed project under CRZ classification detail with maps and google earth image.	Refer CRZ report which is part of EIA report.
16	Kindly provide details of mangroves, mudflats, salt pans, estuaries, and rock area. Within proposed project and study area.	Refer Marine EIA Report prepared by NIO which is part of EIA report submitted by EIL which consist all details.
17	How will disturbed mangroves area be reinstated.	Refer Marine EIA Report prepared by NIO which is part of EIA report submitted by EIL which consist all details.
18	Kindly provide detailed	Refer Marine EIA Report prepared

Sr. No.	Query raised	BPCL Reply
	information on mangrove afforestation for all existing and proposed project / facilities.	by NIO which is part of EIA report submitted by EIL which consist all details.
19	Kindly provide details of location and species selected for mangroves redevelopment afforestation for all existing and proposed project facilities.	Refer Marine EIA Report prepared by NIO which is part of EIA report submitted by EIL which consist all details.
20	Kindly provide details of total area under mangroves plantation total area covered by mangroves and survival rate. For all existing and proposed project facilities.	Refer Marine EIA Report prepared by NIO which is part of EIA report submitted by EIL which consist all details.
21	Whether project proponent has prepared CRZ map of 1: 4000 delineating CRZ area. HTL line, LTL line, Buffer zone, mudflat area. Sand-dune area. Rocky seashore, coral reefs. Etc.	Refer CRZ maps prepared by IRS, Chennai which is part of EIA report.
22	Kindly provide entire details of CRZ classification along proposed pipeline corridor alignment according to approved draft CZMP.	Refer CRZ report prepared by IRS, Chennai which is part of EIA report.
23	Kindly provide copy of proposed pipeline alignment corridor superimposed on approved CZMP.	Refer CRZ report prepared by IRS, Chennai which is part of EIA report.
24	Kindly provide copy of existing site boundary. Superimposed on approved CZMP	Refer CRZ report prepared by IRS, Chennai which is part of EIA report.
25	Kindly provide map of existing and proposed project activities proposed alignment on 1 : 4000 CZMP.	Refer CRZ report prepared by IRS, Chennai which is part of EIA report.
26	Kindly provide latest available satellite images of study area.	Refer Baseline Environment Section of EIA report.

Sr. No.	Query raised	BPCL Reply
27	Kindly provide alternate alignment studied for proposed pipeline.	Refer EIA report.
28	Kindly provide information on site alternatives studied for proposed poly propylene unit.	Proposed plot was the only alternative.
29	BPCL to clarify up to what area the infrastructure facilities will be extended to the locals?	CSR and CER for the surrounding areas shall be taken up based on available budget, guidelines provided by District Authorities & recommendations in EC report.
30	Kindly provide all information on high tide flow and biodiversity of Thane creek and Panvel creek.	Refer Marine EIA report which is part of EIA report.
31	How much time will be required to complete proposed project?	Three years within obtaining EC.
32	What will be the impact of proposed work on Panvel creek and Thane creek?	Refer Marine EIA report which is part of EIA report.
33	Kindly provide details of impact on biodiversity of surrounding due to proposed processes.	Refer Marine EIA report which is part of EIA report.
34	Kindly provide detailed information on indirect destruction of mangroves area.	Refer Marine EIA report which is part of EIA report.
35	What all majors taken to conserve diversity of surrounding?	Refer EIA report.
36	On page no. 2 of EIA report, it is said that, "The project site is not having any importance". The pipeline traverses Thane creek and Panvel creek and site proposed for Propylene unit is close to Karnala bird Sanctuary- Explain	HOCL has dismantled the factory on their own and the clear land is being sold to BPCL. As on date, there is no facility existing on the land and hence the statement is made.
37	It is mentioned in EIA report that habitats in study area include agriculture and scrubland. Total 103 species of birds were observed during present survey	This information is provided as per the format of EIA report.

Sr. No.	Query raised	BPCL Reply
	within 10km radial distance, from proposed project site.	
38	Project proponent failed to mention that leopard exist also in Karnala bird sanctuary.	The same is not spotted in project site during site visit.
39	There is wildlife corridor between Karnala bird sanctuary, Phansad wildlife sanctuary Sudhagad wildlife century, Matheran wildlife sanctuary, Bhima Shankar wildlife sanctuary. Due to highway widening, habitat destruction occurred in these protected areas. There may be increased in man animal conflict, due to these project.	BPCL is not involved in highway widening project. Proposed Polypropylene project will be located within existing unused HOCL factory plot. The pipeline corridor is not passing through any Wildlife Sanctuaries, thus possibility of man animal conflict due to this project does not exist.
40	Kindly provide data of flora, fauna and wildlife observed in that area along with classification with respect to IWPA 1972 and IUCN red list.	Schedule-I species including faunal list is provided in Table 3.30 of EIA report.
41	Kindly provide list of migratory birds along with migratory and IWPA 1972 and IUCN red list status observed in study area.	Birds along with migratory birds list are provided in Table 3.30 of EIA report.
42	Is there any Near Threatened, Threatened, Sensitive, Extinct species of flora and fauna in this area? Kindly provide detailed information.	There are no such Near Threatened, Threatened, Sensitive, Extinct species of flora and fauna in this area found during site visit.
43	Which are the scheduled species in the area?	Schedule-I species including faunal list is provided in Table 3.30 of EIA report.
44	Kindly provide fish species available in this area.	Fish species available in the study area is provided in Marine EIA report which is part of EIA report.
45	What will be the impact of	There will be no impact on fish

Sr. No.	Query raised	BPCL Reply
	proposed project on fishing and (fish) diversity? What are mitigation majors for these?	diversity due to the proposed project. Refer Marine EIA report which is part of EIA report.
46	Is there any study carried out on impact of existing project / facilities on fishing in surrounding; if yes kindly provide copy of the same.	Refer Marine EIA report which is part of EIA report.
47	How many fisher folks are dependent on traditional fishing act proposed project alignment? and how livelihood of them will be compensated.	There will be no impact fishing activity and livelihood of fishermen not hampered.
48	What will be the impact on marine life, bird life and livelihood of local fishermen community?	Refer Marine EIA report which is part of EIA report.
49	There will be adverse impact of proposed project on fish catch and fishing occupation. What all mitigation measures are proposed to reduce it and to compensate loses.	Refer Marine EIA report which is part of EIA report.
50	Is there any compensation scheme available for local fishermen? Kindly provide details.	Pipeline is planned to be laid in marine area wherein it is passing through the navigational area and not much of fishing activities are present in those area. The project activity requires only 4-6 months' time to lay the pipelines and hence no major disturbance expected on fishing activity or fishermen.
51	Kindly provide details of compensation provided for loss of livelihood.	No loss of livelihood expected since proposed Polypropylene project is fully within the old closed HOCL factory plot. Compensation will be given for those whose land is affected due

Sr. No.	Query raised	BPCL Reply
		to pipeline laying as per the recommendations of competent authority appointed by state government. Moreover the disturbance is temporary, after laying of pipelines the farmers may carry out farming activity over the laid pipelines.
52	Kindly provide information on change in biotic physical measurements in that area.	Refer Marine EIA report which is part of EIA report.
53	Provide information of proposed environment management plan.	Detailed Environment Management Plan is provided in Chapter 10 of EIA study report.
54	As mentioned in report, connecting pipeline is proposed through RRZ area and reserved forest. Total forest area diverted for lying of pipeline is 2 acres. 68 hectares (mangroves area: 21.9 hectares and reserved / protected forest area:78.7878 hectares).	River Regulation Zone (RRZ) Policy is scrapped by Government of Maharashtra. Before laying pipelines, all necessary permissions from Forest department will be taken and all conditions duly complied.
55	Is there any scheme for future expansion? Kindly provide information of the same.	Any expansion if required will be taken up separately as per the guidelines and procedures.
56	Panvel area is categorized as seismic zone III (medium). In the event earthquake what are majors will be implemented? Kindly provide details of mitigation majors if any.	All plant buildings and structures will be constructed to ensure adequate safety considering the Seismic classification of the area
57	How environment will be damaged due to leakage of gases and other toxic substances.	Refer Rapid Risk Assessment study report which is part of EIA report.
58	Kindly provide information of training given to permanent as well as contractual employees.	BPCL is an ISO 9001, ISO 14001 and OHSAS 18001 accredited Organisation. Necessary training will be provided to different levels of employees as per need.

Sr. No.	Query raised	BPCL Reply
59	Please explain how temporary and permanent staff will be trained?	Repeated question please refer sr no. 61.
60	As per CRZ notification, how much eco-sensitive area will be affected/ destroyed due to proposed project?	No Eco-sensitive area will be affected/ destroyed due to proposed project.
61	Kindly provide information on eco-sensitive area around proposed project along with map.	Eco-sensitive area is not falling in the pipeline route.
62	Kindly provide information of water quality during construction phase and operation phase of proposed project. Also give prediction about water quality in future.	Please refer Chapters 2 & 4 of EIA study report.
63	In the study area proposed as also for proposed project /infrastructure facilities – comprehensive EIA including road, rail, water bodies should be considered	EIA Notification 2006 and Guidelines there under require only three months baseline monitoring.
64	Kindly provide information of proposed green belt.	As per MoEFCC, 33% of total area is earmarked for greenbelt development.
65	Kindly provide details of compliance regarding green belt in all existing project / facilities.	Proper greenbelt will be developed for the proposed project.
66	Kindly provide details of employment provided to locals till date.	Not applicable for proposed project.
67	Provide details of job given to fishermen till date.	Not applicable for proposed project.
68	Kindly provide information on change in noise levels due to operation phase of proposed project also update with mitigation measures	Please refer Chapter 4 of EIA study report.
69	Kindly provide information of noise modeling during construction phase and operation phase of proposed project. Also	Noise modelling is not required for proposed project.

Sr. No.	Query raised	BPCL Reply
	give prediction about noise modeling levels in future.	
70	Provide details of budgetary provision made under CSR activities.	Please refer Chapter 10 of EIA study report.
71	Kindly provide information of forest clearance obtain for project proposal.	Forest Clearance is under progress.
72	Kindly provide information of wildlife clearance obtain for project proposal.	Not applicable as the proposed project is not falling inside Eco sensitive Zone ofKarnala Bird Sanctuary and Thane Creek Flamingo Bird Sanctuary.
73	Please explain whether water quality in the area will be deteriorated – what are proposals in this respect?	No water quality will be deteriorated as the proposed project is not discharging waste water outside of the premises.
74	How livelihood of local community gets affected due to these?	It will not get affected.
75	What are proposed remedial actions proposed?	Please refer Chapters 4 & 10 of EIA study report.

Existing land area is 334 acres. No additional land is required for the proposed project. BPCL has acquired the land from Hindustan Organic Chemicals Limited (HOCL). Proponent will develop greenbelt in an area of 33 % i.e. 110.7 acres out of 334 acres of the total complex area. The estimated project cost is Rs. 6431 Crores (Rs. 3826 Crores for Rasayani Complex & Rs. 2605 Crores for Pipelines from BPCL-MR to Rasayani). Total capital cost earmarked towards environmental pollution control measures is Rs 104.95 crores and the recurring cost (operation and maintenance) will be about Rs 2.10 crores per annum. Direct employment will be 120 persons during operation & indirect employment for 2000 persons during construction phase (peak). BPCL proposes to allocate Rs 40.16 crores towards Corporate Environment Responsibility (CER).

Bharat Petroleum Corporation Ltd has also proposed to lay petroleum product pipelines (4 nos.) from Mumbai Refinery to Proposed Poly propylene plant at Rasayani. The pipelines are of different sizes having diameters 18" Multiproduct, 10" Lube oil, 10" Unconverted oil & 8" polypropylene with

each pipeline approx. 40 km length, passing through MBPT, Belapur Creek, CIDCO, NH348, Cross Country section and is passing through forest area in the cross country section and finally terminating at Rasayani Plant.

In forest area it is passing through some of Mangrove areas across Belapur creek shores in Mahul villages at Mumbai side and village Ulve, Sonkhar, Owle & Pargaon Dungi, in Panvel Taluka. In FC portion the pipeline is proposed to pass through villages Wahal, Sirdhon, Pargaon Dungi, Karanjade, Somtane, Narpoli and Devloli Budruk in Panvel area.

As per the initial proposal the total Forest Area to be diverted for laying the pipelines is 25.68 Hectares (Mangrove area: 21.9 ha and Reserved / Protected Forest area: 3.78 ha). However, after a joint site inspection with forest officials (undertaken by DCF, Alibag, Raigad) and scrutiny of the proposal, optimum forest land for the diversion arrived to be 22.9648 hectares. Therefore, Stage -1 Forest Clearance was obtained from MoEF&CC, Nagpur vide F. No. FC-II/MH-163/2021- NGP/10134 dated 10.08.2022 for lesser area i.e. 22.9648 Hectares.

EAC noted that the Eco-sensitive Zone of Thane Creek Flamingo Sanctuary was notified vide SO 4293 (E) dated 14.10.2021 wherein ESZ boundary was notified to an extent of 0 (zero) to 3.89 kilometres around the boundary of Thane Creek Flamingo Sanctuary and the area of the Eco-sensitive Zone is 48.305 square kilometres. PP has submitted a copy of NOC from Additional Principal Chief Conservator of Forest (APCCF) vide letter no. S.Room-3/land/424/2023-24 dated 12/06/2023 indicating distance from project from the nearest boundary of ESZ is 5.5 km and the pipeline falls outside the ESZ of the Thane Creek Flamingo Sanctuary. The Eco-sensitive Zone of Karnala Wildlife Sanctuary was notified vide SO 230 (E) dated 22.01.2016 wherein ESZ boundary was notified to an extent of zero to 8 kilometers from the boundary. In this regard, PP has informed that ESZ of Karnala Bird Sanctuary falls within 1 km distance from pipeline and 2 km from the project site and proposed pipeline is not passing through any ESZ area of Karnala Bird Sanctuary. Arabian Sea is 20 km (south-west) and Patalganga river 1.2 km (south-east) from the project site.

Ambient air quality monitoring was carried out at 10 locations during March to May 2023 and the baseline data indicates the ranges of concentrations as PM₁₀ (72.5 – 82.3 µg/m³), PM_{2.5} (37.2-45.3 µg/m³), SO₂ (17.9-22.4 µg/m³) and NO₂ (24.1-34.7 µg/m³) respectively. Air quality modeling was carried

out for the proposed project. 24 hourly maximum GLC for SO₂ and NO_x are predicted as 0.54µg/m³ and 2.35 µg/m³. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total fresh water requirement will be 375 m³/hr which will be met from supply of Maharashtra Industrial Development Corporation (MIDC). There shall be 160 m³/hr of liquid effluent generation from proposed plant which will be treated in new Effluent Treatment Plant. ETP treated waste water will be recycled through Zero Liquid Discharge (ZLD) plant.

Power requirement for the proposed project will be 42.9 MW and sourced from state electricity grid. Gas fired boiler with a capacity of 50 TPH (1+1) will be installed. Total SO₂ emission from the proposed project shall be 2.4 kg/h. Most of the process units will run on Natural Gas. Spent Catalyst will be generated (once in 4 years) during operation phase and other solid waste like spent Filter Elements, Spent Bag Filter, absorbent etc. will be sold to Catalyst processor for metals reclamation or disposed off to TSDF. An agreement with locally approved TSDF agency will also be put in place. The solid & hazardous waste will be managed as per CPCB guidelines.

The proposed pipelines, which are to carry feed to proposed PP Plant at Rasayani are passing through coastal areas and marine water of the Arabian Sea. The proposal was presented before 138th meeting of Maharashtra Coastal Zone Management Authority (MCZMA) on 10/10/2019 for CRZ recommendation. After detailed discussion and deliberation, MCZMA has recommended the proposal vide letter no. CRZ 2019/CR 153/TC 4 dated 19.11.2019.

Further, PP vide letter no. FC-II/MH-163/2021-NGP/10134 dated 10.08.2022 has submitted copy of Forest Clearance Stage I for diversion of 22.9648 Ha of land for construction of underground petroleum pipeline with OFC and its associated facilities from Mahul to Rasayani in the State of Maharashtra.

Stage -1 Forest Clearance was obtained from MoEF&CC, Nagpur vide F.No. FC-II/MH-163/2021- NGP/10134 dated 10.08.2022 for 22.9648 ha. However, earlier as per EIA /EMP report, "the total Forest Area to be diverted for laying the pipelines is 25.68 Hectares (Mangrove area: 21.9 ha and Reserved / Protected Forest area: 3.78 ha).

Further, PP explained that the total forest land requirement for the proposal is 22.9648 ha only. The requirement of optimum forest land for the diversion arrived after a joint site inspection with forest officials (undertaken by DCF, Alibag, Raigad) and scrutiny of the proposal. Therefore, Stage -1 Forest Clearance was obtained for lesser area i.e. 22.9648 Hectares.

Budget of Environmental Management Plan (Capital Cost)

Sl. No.	Activity	EMP Budget (Rupees in Lakhs)
1.0	Air Environment	
1.1	Greenbelt Development	150.0
1.2	Air pollution control devices	100.0
2.0	Noise Environment	
2.1	Additional Plantation Activities	Included in 1.1
2.2	Audiometric test/ Occupational Health Check-up	5.0
3.0	Water Environment	
3.1	Rain water Harvesting pits	10.0
3.2	Water sampling/monitoring	5.0
3.3	ETP and STP	10000
4.0	Land Environment	
4.1	Additional Plantation Activities	Included in 1.1
4.2	Solid waste management	20.0
4.3	Soil sampling/monitoring	5.0
5.0	Biological Environment	
5.1	Additional Plantation Activities	Included in 1.1
6.0	Marine Environment	
6.1	Shoreline monitoring & Oil spill management	200
	Budget for EMP (Capital Cost)	10495.0

Table: Budget of Environmental Management Plan (Recurring Cost per Annum)

Sl. No.	Activity	EMP Budget (Rupees in Lakhs)
1.0	Air Environment	
1.1	Greenbelt Maintenance	50.0
1.2	Air pollution control devices	50.0
2.0	Noise Environment	
2.1	Additional Plantation Activities	Included in 1.1

2.2	Audiometric test/ Occupational Health Check-up	5.0
3.0	Water Environment	
3.1	Rain water Harvesting pits	5.0
3.2	Water sampling/monitoring	5.0
3.3	ETP & STP Manitenance	20.0
4.0	Land Environment	
4.1	Additional Plantation Activities	Included in 1.1
4.2	Solid waste management	10.0
4.3	Soil sampling/monitoring	5.0
5.0	Biological Environment	
5.1	Additional Plantation Activities	Included in 1.1
6.0	Marine Environment	
6.1	Shoreline monitoring & Oil spill management	60
	Budget for EMP (Recurring Cost per Annum)	210.0

Details of CER Budget with break-up activity

Sl. No.	Activities as per public consultation	Allocated Budget (In Crores)
1.	Education and Skill Development for Local Youths/ peoples	3.0
2.	Abatement in environmental pollution for surrounding areas/villages	4.0
3.	Additional Plantation, Rainwater Harvesting & Pond Rejuvenation etc.	3.0
4.	Improvement of Healthcare Facilitates in surrounding villages of the project site	10.0
5.	Providing infrastructure facilities in local schools	4.0
6.	Support in Infrastructure development/Road repairing/ de-silting of drainage network	4.0
7.	Solar Electrification and solid waste management in surrounding village areas	2.0
8.	Drinking Water facilities for surrounding villages	10.16
Total Expense (Rs. in Crores)		40.16

During deliberations, EAC discussed following issues:

- (i). PP was asked to submit oil spill contingency plan for any potential leakage commensurate to the risk of the spill. PP also to submit its capability to respond the spill with trained manpower and equipment which they have. In case they don't have the mandatory tier 1 capability then to produce commitment/MoU with service provider.
- (ii). From the raw data of ambient air quality data provided it appears that only a single 24 hourly sample has been collected for PM₁₀, PM_{2.5}, SO₂, HC, NH₃ and Benzene, while 08 hourly sample has been collected CO and O₃, which requires further clarification from PP, to ensure reliable data has been generated, since the issue of impacts due to air emissions have been raised during PH.
- (iii). PP informed that total SO₂ emission from the proposed project will be 2.4 kg/h. EAC suggested to provide basis of estimate of 2.4 Kg/h SO₂ emission from the proposed project. Also Sulphur balance to be provided.

The above information has not been provided/circulated by PP to the Expert members of the Committee.

Accordingly, proposal was deferred for want of above additional information. Above all additional information shall be submitted online to the PARIVESH portal for further consideration by EAC.

Agenda No. 02

Expansion of Grain based Distillery (120 to 300 KLPD) & Co-generation Power Plant (2.5 to 9.0 MW) by installation of new 180 KLPD Grain based Ethanol Plant at Village Sangat Kalan, Tehsil Bathinda, District Bathinda, Punjab by M/s. Om Sons Marketing Private Limited – Re-consideration of amendment of Environmental Clearance

[IA/PB/IND2/285683/2022, IA-J-11011/274/2011-IA-II (I)]

The proposal is for amendment in the Environmental Clearance granted by the Ministry vide letter no. F. No. J-11011/274/2011-IA-II-(I) dated

03.01.2022 for the project for carrying out expansion of Grain Based Distillery from 120 KLD to 300 KLD & increase in capacity of Co-generation Power Plant from 2.5 to 9.0 MW located at village Sangat Kalan, Tehsil-Bathinda, District-Bathinda, Punjab by M/s. Om Sons Marketing Private Limited.

The proposal was earlier considered by the EAC (Ind-2) meeting held during 24-25 January, 2023 wherein EAC deferred the proposal and desired certain requisite information/inputs. Information desired by the EAC and responses submitted by the project proponent is as under:

S. No.	Observation	Reply
1.	PP informed that EC dated 03.01.2022 has been implemented and CTO for 300KLD distillery project has been obtained. Accordingly, the committee desired to submit the CCR from IRO.	The project site was visited by IRO Chandigarh on dated 12.05.2023 and issued CCR on dated 06.06.2023. Compliance of observations submitted to IRO. Certified Compliance report and its observation has been submitted.
2.	Committee also suggested to submit updated layout plan considering the additional proposed land.	The project area is revised from 25.34 acre to 38.393 acres. Layout plan to this regard is submitted
3.	Land ownership documents of the additional land shall be submitted.	The whole additional land area is under the ownership of M/s. Om Sons Marketing Private Limited. Land documents are submitted
4.	Addendum submitted to EMP report is completely plagiarised which was submitted for EC granted with minor edit of total land area. In this regard, PP shall also submit addendum to EMP report considering the proposed changes envisaged for the	Addendum pre-feasibility report incorporating details of the project is separately submitted.

addition of land.	
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The project proponent has requested for amendment in the EC with the details are as under;

S. No.	Particulars	Detail as per EC Granted	Proposal for Amendment in EC	Justification for amendment
1.	Grain Based Ethanol / ENA / RS / Industrial Alcohol plant	120 KLPD To 300 KLPD	Addition of 11.5 acres of land area to increase in the plant area from 25.34 acres to 36.84 acres	For using the same for Parking of vehicles, green belt development and construction of laboratory for ETP, storage area for ETP chemicals and office for ETP staff.
2.	Co-generation power plant	2.5 to 9.0 MW		
3.	IMFL/CL Bottling plant	20,000 cases per day	Nil	Nil

During deliberations, EAC discussed following issues:

- i. EAC noted that there are 4 partial/non compliances observed as per CCR dated 06.06.2023. PP has informed that ATR has been submitted vide letter dated 12.06.2023 for all non/partial compliances observed. In this regard, EAC suggested to comply with all the partial/non compliances within 3 months of issuance of amendment. PP informed that the Company has already obtained authorization, which is valid upto 30.09.2026. Regarding CER, PP has spent Rs. 20,61,990; Rs. 35,59,991; Rs. 75,01,750 during the period of 2020-21; 2021-22; and 2023. PP has provided the details of capital cost and recurring cost spent towards EMP.
- ii. Further, PP has informed that due to additional included 13.053 acres, total plot area amounts to 38.393 acres and total estimated project cost shall increase from Rs. 200 Crores to Rs. 204.44 Crores. In this regard, EAC suggested that PP should develop/maintain green belt in 12.7 acres i.e. 33 % of total plot area (38.393 acres).

- iii. The Committee also suggested to store biomass in the covered shed. Biomass should be transferred through closed conveyor. Fly ash shall be collected in the silo.

After detailed deliberations EAC found the justification for amendment sought satisfactory and **recommended** the proposal for amendment in EC subject to the following additional conditions:

- (i). PP shall ensure that biomass is stored in the covered shed. Biomass should be transferred to boiler through closed conveyor. Fly ash shall be collected in the silo.
- (ii). PP shall ensure that the Funds earmarked for Social welfare activities are spent within the next 03 months.
- (iii). The green belt of at least 5-10 m width shall be developed in 12.7 acres i.e. 33 % of the total project area with tree density @ 2500 trees per hectares, mainly along the plant periphery. Indigenous species shall only be developed as part of greenbelt and non-indigenous / alien species shall be replaced with native species. No invasive or alien or non-native tree species shall be selected for plantation. PP shall develop at least 20 variety of species as a part of greenbelt. Saplings 4-6 feet high shall be planted. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed. Records of tree canopy shall be monitored through remote sensing map. Greenbelt development shall be completed before commissioning of the plant.
- (iv). PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.
- (v). Industry shall provide training to 10 local youth every quarter on

environment management including air pollution control device, ETP, solid waste management, fly ash based brick manufacturing, green belt development as part of skill development programme.

However, all other terms and conditions mentioned in EC vide letter no. J-11011/274/2011-IA-II (I) dated 03rd January, 2022 shall remain unchanged.

Agenda No. 03

Proposed Project for 5000 TCD Sugar Plant along with 33.65 MW Cogeneration Power Plant and 120 KLPD Distillery/Ethanol Plant at V.P.O Paniar Village, Dist. Gurdaspur, Punjab by M/s. The Gurdaspur Cooperative Sugar Mills Ltd – Re-consideration of Environmental Clearance.

[IA/PB/IND2/402748/2022, IA-J-11011/502/2021-IA-II(I)]

The proposal was earlier considered by the EAC (Ind-2) in its meeting dated 21st -22nd December, 2022 wherein EAC returned the proposal and desired certain requisite information/inputs. The proposal was again considered by the EAC (Ind-2) meeting held during 16th May, 2023 wherein the proposal was recommended for grant of EC. During processing the file it was observed that following is mentioned in the forwarding letter of Punjab Pollution Control Board along with public hearing proceeding:

"The industry has started construction activity at site without the prior mandatory approvals including consent to establish from PPCB and environment clearance from MoEF&CC as required under the provisions of EIA Notification 2006".

Ministry referred back the proposal to EAC, for asking the PP to apply for TOR under violation category. Further, EAC noted that PP vide e-mail dated 12.07.2023 informed that as per recommendation of instant proposal during appraisal held on 16th May, 2023 all issues were clarified and are not attending to present the proposal. In this regard, EAC opined that as PH report explicitly mentioned that construction activity at site has been initiated without the prior mandatory approvals including consent to establish from PPCB and environment clearance from MoEF&CC, the project

proponent should apply the proposal under violation category alongwith surrendering the existing ToR letter no IA-J-11011/502/2021-IA-II(I) dated 08.12.2021 issued by Ministry. EAC also suggested that the recommendation of EAC may also be communicated to SPCB for necessary action.

Accordingly the proposal is returned in present form.

Agenda No. 04

Expansion of Molasses Based Distillery Unit from 90 to 200 KLPD along with 4 MW Co-gen Power Plant and Zero Liquid Discharge Unit located at Nellikuppam Village, Panruti Taluk, Cuddalore District, Tamil Naduby M/s. E.I.D PARRY (INDIA) LIMITED DISTILLERY DIVISION – Re-consideration of Environmental Clearance.

[IA/TN/IND2/425851/2023, IA-J-11011/233/2008-IA-II(I)]

The proposal was earlier considered by the EAC (Ind-2) meeting held during 12-13 June, 2023 wherein EAC deferred the proposal and desired certain requisite information/inputs. Information desired by the EAC and responses submitted by the project proponent is as under:

S. No.	Observation	Reply
1	EAC noted that incremental GLCs presented in the meeting are different from that uploaded in the website i.e 3.14 $\mu\text{g}/\text{m}^3$, 1.62 $\mu\text{g}/\text{m}^3$, 0.73 $\mu\text{g}/\text{m}^3$ and 1.32 $\mu\text{g}/\text{m}^3$ with respect to PM_{10} , $\text{PM}_{2.5}$, SO_2 and NO_x . The committee sought explanation from PP and consultant regarding mismatch of	The incremental GLCs uploaded in the PARIVESH portal i.e. 3.14 $\mu\text{g}/\text{m}^3$ (PM_{10}), 1.62 $\mu\text{g}/\text{m}^3$ ($\text{PM}_{2.5}$), 0.73 $\mu\text{g}/\text{m}^3$ (SO_2) and 1.32 $\mu\text{g}/\text{m}^3$ (NO_x) is the correct one. Our sincere apologize to the EAC Committee for presented the different data during EAC (Industry Sector-2) meeting held on 12-06-2023. We understand this has caused lot of inconvenience to the EAC Committee. We cannot defend our actions, but we want to inform you that we handling two more PPT at a time. We got confused

<p>data. In this regard, the committee noted that response furnished by PP/consultant is not satisfactory. Therefore, committee asked PP/consultant to submit satisfactory reply for deviation in data w.r.t incremental GLCs uploaded on the website.</p>	<p>and mistakenly given the incorrect data in the PPT. We truly sorry for such a worthless mistake. We can assure that this kind of mistake will never be repeated in the future.</p>
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Based on the explanation given above EAC warned PP/consultant to be more cautious while presenting the proposals for appraisal in future.

The Project Proponent and the accredited Consultant M/s. Enviro Care India Private Limited (NABET certificate no. NABET/EIA/2124/RA0249 and validity 14thDecember 2024) made a detailed presentation on the salient features of the project and informed that the proposal is for environmental clearance to the project for expansion of existing distillery unit from 90 to 200 KLPD along with 4 MW Co-gen Power Plant and Zero Liquid Discharge Unit by M/s. E.I.D PARRY (INDIA) LIMITED DISTILLERY DIVISION at Nellikuppam Village, Panruti Taluk, Cuddalore District, Tamil Nadu.

As per EIA Notification 2006 (Schedule 5(g) Category A); however, as per in the MoEFCC Notification S.O. 345(E), dated the 17th January, 2019, notification number S.O.750(E), dated the 17th February, 2020, S.O. 980 (E)dated 02nd March, 2021 & S. No.2339(E) 16th June, 2021, a special provision in the EIA Notification, 2006 "Expansion of sugar manufacturing units or distilleries for production of ethanol, having Prior Environment Clearance (EC) for existing unit, to be used completely for Ethanol Blended Petrol (EBP) Programme only, as per self-certification in form of an affidavit by the Project Proponent, shall be appraised as category 'B2' projects.

The details of products and capacity as under:

S. No.	Name of unit	Name of the	Existing Production	Additional production	Total production
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		product/by-product	capacity	capacity	capacity
1	Distillery	Ethanol	90 KLPD	110 KLPD	200 KLPD
	Raw Materials Syrup - 645 TPD B-Heavy Molasses - 655 TPD	Extra Neutral Alcohol (ENA)	75 KLPD	-	75 KLPD
2	Co-generation power plant for distillery	Power	-	4 MW	4 MW
3	ATFD Plant	Potash Fertilizers	-	18.29 TPD	18.29 TPD
4	Fermentation Unit	Carbon Dioxide	25 TPD	43 TPD	68 TPD

Note: Capacity of distillery shall not exceed 200 KLPD at any point of time.

Ministry/SEIAA has issued Environmental Clearance to the existing Industry File No. F. No. J-11011/233/2008- IA II (I) dated 09.07.2008 for expansion of distillery from 45 KLPD to 75 KLPD for manufacturing rectified spirit/Ethanol/Extra neutral alcohol. Certified Compliance report of existing EC has been obtained from Integrated Regional Office, MoEFCC, File no. EP/12.1/739/TN/610 dated 18.05.2023. EAC found response satisfactory.

EAC sought explanation from PP as CCR mentions the distillery capacity of 75 KLPD whereas the expansion is sought from 90 to 200 KLPD. In this regard, PP has informed that Industry has obtained permission for expansion from 75 to 90 KLPD from TNPCB under no increase in pollution load (NIPL) category vide letter TNPCB/T3/F.0079/CUD/2022 dated 17.03.2022. EAC opined that Industry should have intimated Ministry regarding expansion under NIPL.

Standard ToR and Public Hearing is not applicable as the project falls under category B2 as per OM dated 16th June, 2021. It was informed that there is no litigation pending against the project.

Total plant area after expansion will be 9.11 Ha which is under possession of the company and converted to industrial use/ No additional land will be acquired for the expansion project as the same will be done within existing plant premises. Out of the total plant area 3.0 Hectares i.e. 33% of the total plant area has been developed as greenbelt & plantation and the same will be maintained/ will be developed under greenbelt & plantation in and around plant premises. The estimated project cost is Rs. 150 Crores. Capital cost of EMP would be Rs. 37.0 Crores and recurring cost for EMP would be Rs. 5.75 Crores per annum. Industry proposes to allocate Rs. 3.75 Crores towards extended EMP (Corporate Environment Responsibility). Total Employment after expansion will be 150 persons as direct & indirect.

There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance. There is no Eco-sensitive Zone within 10 km distance from project area. NBWL application is not applicable for this proposed project. There is no Schedule I species present within 10 km distance from the project site.

AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be $3.14 \mu\text{g}/\text{m}^3$, $1.62 \mu\text{g}/\text{m}^3$, $0.73 \mu\text{g}/\text{m}^3$ and $1.32 \mu\text{g}/\text{m}^3$ with respect to PM_{10} , $\text{PM}_{2.5}$, SO_2 and NO_x . The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

PP informed that total water requirement shall be 2225 KLPD, which will be met from recycled water from Process (1618 KLD) & Sugar CPU Plant (602 KLD). PP confirmed that no fresh water shall be sourced from surface/ground water for Industrial purposes. However, fresh water requirement for domestic purpose will be 5 KLD, which will be extracted from borewells. Effluent (Condensate/spent lees/blow down etc.) of $1671 \text{ m}^3/\text{day}$ quantity will be treated through Condensate Polishing Unit/Effluent Treatment Plant of capacity 1700 KLPD. The plant will be based on Zero Liquid discharge system and no effluent/treated water will be discharged outside factory premises. In molasses based operation, spent wash generated from the analyzer column during distillation will be concentrated in Multi Effect Evaporator and concentrated spent wash will be burnt in incineration boiler/concentrated spent wash will be bio-methanated and converted into powder form by spray dryer (ATFD) technology/ concentrated spent wash

will be treated through bio-composting and bio-compost will be sold to farmers in packed form.

Total Power requirement after expansion will be 3.8 MW which is met from proposed 4 MW Co-generation Power Plant. A 45 TPH bagasse/coal fired boiler will be installed. Electrostatic Precipitator with a stack of height 90 m will be installed for controlling the particulate matter emissions within the statutory limit of 30 mg/Nm³ for the proposed boiler.

Details of Process emissions generation and its management:

- APCE Electrostatic Precipitator with a common stack of height 55 m is installed with the existing biogas fired boilers (6 TPH & 16 TPH) for controlling the particulate matter emissions within the statutory limit of 50 mg/Nm³. APCE Electrostatic Precipitator with a stack of height 90 m will be installed with the proposed 45 TPH bagasse/coal fired boiler for controlling the particulate matter emissions within the statutory limit of 30 mg/Nm³.
- Online Continuous Emission Monitoring System is being/will be installed with the stacks and data transmitted to CPCB/SPCB servers.
- CO₂ (68TPD) generated during the fermentation process is being/will be collected by utilizing CO₂ scrubbers and sold to authorized vendors/collected in proposed bottling plant.

Details of solid waste/Hazardous waste generation and its management:

- Fermenter Sludge (2.0 TPD) will be dried and sold to farmers.
- ETP Sludge (2.0 TPD) will be dried and sold to farmers.
- Used oil (0.25 tons per annum) is being/will be sold to authorized recyclers.

As per Notification S.O.2339 (E), dated 16th June, 2021, PP has submitted self-certification in the form of notarized affidavit declaring that the proposed expansion capacity from 90 KLPD to 200 KLPD will be used for manufacturing fuel ethanol only.

Capital cost and recurring cost of EMP are given below:

S. No.	Particulars	Capital Cost Rs Crore	Annual Recurring Cost Rs Cr
1	Air pollution control system (Bag filter) on 45 TPH Incineration boiler, ash handling system.	5	0.25
2	Scrubbing system, compressing system, storage for CO2 removal	2	0.75
3	Treatment system for spent wash-Evaporator	17	3
4	Condensate Polishing unit for water treatment and recycle	5	0.5
5	Rainwater harvesting systems	1	0.5
6	Occupational Health & Safety	2	0.2
7	Noise Reduction Systems	1	0.05
8	Green Belt Development	2	0.25
9	Environment monitoring	1	0.2
10	Environment management cell	1	0.05
Total		37	5.75

Details of CER with proposed activities and budgetary allocation:

S. No.	Activity	Fund Allocated Rs Cr
1	Health and Education to nearby villages	1.5
2	Toilet Facility / Water treatment plant for primary school in Panchayat union Melpathy Elementary CO-ED school Municipality elementary school, Market Government boys Hr. Sec. School, Nellikuppam Government girls Hr. sec. School, Karamanikuppam	1.75
3	Electrification including solar power to nearby villages	0.5
Total		3.75

The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form

along with the EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EMP report is in compliance of the PFR. The Committee deliberated on the CER plan and found to be addressing the issues in the study area. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have **recommended** for grant of environmental clearance.

The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, subject to compliance of terms and conditions as under, and general terms of conditions at Annexure: -

- (i). As per the Notification S.O. 2339(E), dated 16th June, 2021, project falls in category B2 and the proposed expansion of 110 KLPD shall only be used for fuel ethanol manufacturing as per self-certification in form of a notarized affidavit by the Project Proponent. Provided that subsequently if it is found that the ethanol, produced based on the EC granted as per this dispensation, is not being used completely for EBP Programme, or if

ethanol is not being produced, or if the said distillery is not fulfilling the requirements based on which the project has been appraised as category B2 project, the EC shall stand cancelled.

- (ii). Capacity of distillery shall not exceed 200 KLPD at any point of time.
- (iii). The company shall 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, and risk mitigation measures relating to the project shall be implemented.
- (iv). EC granted for a project on the basis of the submitted documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of project. Conversion of land use (CLU) certificate shall be obtained before start of construction activities.
- (v). NOC from the Concerned Local authority shall be obtained before start of the construction of plant and drawing water from bore-wells for the integrated sugar and distillery project. State Pollution Control Board shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission.
- (vi). Total water requirement shall not exceed 2225 KLPD which will be met from recycled water from Process (1618 KLD) & Sugar CPU Plant (602 KLD). No fresh water shall be sourced from surface/ground water for Industrial purposes. However, fresh water requirement for domestic purpose will be 5 KLD, which will be extracted from borewells. No ground water recharge shall be permitted within the premises. Industry shall construct a rain water storage pond of 60 days capacity and the accumulated water to be used as fresh water thereby reducing fresh water consumption.
- (vii). The spent wash from molasses-based distillery shall be concentrated in MEE and concentrated spent wash shall be incinerated in the incineration boiler. Spent Wash/stillage from grain based distillery shall be sent to the decanter followed by the Multiple Effect Evaporator and

dryer to form DDGS. DDGS to be used as cattle feed. Other lean effluents Spent lees, MEE Condensates and utility effluents shall be treated in the condensate polishing unit (CPU) comprising of three stage RO. No wastewater or treated water from integrated unit of sugar mill and distillery shall be discharged outside the premises and Zero Liquid Discharge shall be maintained for all the units namely sugar, Distillery and Cogen Power Plant. STP shall be installed to treat sewage generated from factory premises. PP shall install air cooled condensor in sugar unit to reduce fresh water requirement.

- (viii). Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area shall be set up. Sampling and trend analysis monitoring must be conducted on monthly basis and report submitted to SPCB and RO, MOEFCC. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and Total Dissolve Solids shall be monitored and report submitted to the Ministry's Regional Office.
- (ix). APCE Electrostatic Precipitator with a stack of height 55 m is installed with the existing biogas fired boilers (6 TPH & 16 TPH) for controlling the particulate matter emissions within the statutory limit of 50 mg/Nm³. APCE Bag house/Electrostatic Precipitator with a stack of height 90 m shall be installed for controlling the particulate matter emissions within the statutory limit of 30 mg/Nm³ from the proposed 45 TPH coal fired boiler. SO₂ and NO_x emissions shall be less than 100 mg/Nm³. At no time, the emission levels shall exceed 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. Performance assessment of pollution control devices/ systems will be conducted annually.
- (x). As informed by PP, no Bio composting shall be used for the existing /proposed distillery.
- (xi). 23 TPD Bagasse Boiler ash shall be generated and will be sold to brick manufacturer/ Mixed with press mud and used as manure. PP shall use Bagasse as fuel for the proposed boiler. Low sulphur coal with maximum sulphur content of 0.5% shall only be used. PP shall meet 15% of the

total power requirement from solar power by generating power inside plant premises/adjacent/nearby areas.

- (xii). CO₂ (68 TPD) generated during the fermentation process is being/will be collected by utilizing CO₂ scrubbers and sold to authorized vendors/collected in proposed bottling plant.
- (xiii). PP shall allocate at least Rs. 2.0 Crore for Occupational Health Safety. Occupational Health Centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (xiv). Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (xv). The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms. PESO certificate shall be obtained. 20. Location of ethanol storage tanks shall be placed in such a way that in the event of any fire, accident, explosion or any unforeseen conditions the impact of such event should not go beyond the boundary of the plant i.e. the risk should be tolerable (acceptable) at the boundary.
- (xvi). Process organic residue and spent carbon, if any, shall be sent to Cement and other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xvii). The company shall undertake waste minimization measures as below
(a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.

- (xviii). The green belt of at least 5-10 m width shall be developed in nearly 3.0 hectares i.e., 33 % of the total project area with tree density @ 2500 trees per hectares, mainly along the plant periphery. Indigenous species shall only be developed as part of greenbelt and non-indigenous / alien species shall be replaced with native species. No invasive or alien or non-native tree species shall be selected for plantation. PP shall develop at least 20 variety of species as a part of greenbelt. Saplings 4-6 feet high shall be planted. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed. Records of tree canopy shall be monitored through remote sensing map. Greenbelt development shall be completed before commissioning of the plant. PP shall develop additional 30 meters thick green belt towards village Nellikuppam in North and towards Municipal hospital, school, church and other religious places in NE and S directions.
- (xix). PP proposed to allocate Rs. 3.75 Crores towards Extended EMP (CER) which shall be spent as submitted in CER plan. Further, all the proposed activities under CER shall be completed before the commissioning of the plant in consultation with District Administration.
- (xx). There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products and no parking to be allowed outside on public places. Out of the total project area, 15% shall be allotted solely for parking purposes with facilities like rest rooms etc.
- (xxi). Storage of raw materials shall be either in silos or in covered areas to prevent dust pollution and other fugitive emissions. All stockpiles should be constructed over impervious soil and garland drains with catch pits to trap runoff material shall be provided. Biomass shall be stored in covered sheds and wind breaking walls/curtains shall be provided around biomass storage area to prevent its suspension during high wind speed. All Internal roads shall be paved. Industrial vacuum cleaner shall be provided to sweep the internal roads. The Air Pollution Control System shall be interlocked with process plant/machinery for shutdown in case of operational failure of Air Pollution Control Equipment.

- (xxii). Continuous online (24x7) monitoring system for stack emissions/effluent shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (xxiii). A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. EMC head shall report directly to Head of Organization/Director/CEO as per company hierarchy.
- (xxiv). PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.

Agenda No. 05

Expansion of Distillery Capacity from 100 to 250 KLPD based on Sugar cane Syrup/C/B Heavy Molasses as Raw Material and 120 KLPD Grain based Distillery to Produce Ethanol located at Village - BelladBagewadi, Tehsil - Hukkeri, District - Belgaum, State - Karnataka by M/s. Vishwaraj Sugar Industries Limited - Consideration of amendment of Environmental Clearance

[IA/KA/IND2/297277/2023, IA-J-11011/465/2022-IA-II (I)]

The proposal is for amendment in the Environmental Clearance granted by the Ministry vide file no. IA-J-11011/465/2022-IA-II(I) dated 09/01/2023 for the project Expansion of Distillery capacity from 100 KLPD to 250 KLPD based on Sugarcane Syrup/"C" molasses/"B" Heavy Molasses as raw material and proposed 120 KLPD grain based distillery to produce ethanol at

BelladBagewadi, Tal- Hukkeri, Dist.- Belgaum, Karnataka by M/s. Vishwaraj Sugar Industries Limited.

The project proponent has requested for amendment in the EC with the details are as under;

Sr. No	Para of EC issued by MoEF&CC	Details as per the EC	To be revised/read as	Justification/reasons
1	Para 11	Existing distillery has 22 TPH Biogas fired boiler. 50 TPH Bagasse Briquette fired boiler will be installed in distillery. APCE Bag Filter with a stack height of 43 m is installed with the existing boiler for controlling the particulate emissions within the statutory limit of 50mg/Nm ³ . APCE Bag Filter with a stack height of 60 m will be installed for controlling the particulate emissions within the statutory limit of 50 mg/Nm ³	Existing distillery has 22 TPH Biogas fired boiler (10 TPH +12 TPH) which shall be discarded once the 150 KLPD plant is commissioned. 125 TPH bagasse fired boiler shall be installed in distillery. APCE ESP with stack height of 85 m will be installed for controlling the particulate emissions within the statutory limit of 50 mg/Nm ³ for the proposed boiler.	As per approved EC, steam is taken from 5 different boilers of total 222 TPH capacity. After proposed amendment, steam shall be taken from only 2 boilers of total (70 TPH + 125 TPH) 195 TPH which is more economical and ease of operation. Also, the emission levels are reduced considerably after the proposed amendment. PP Also committed that remaining 3 boilers will not be used and dismantled after commissioning of the 2 boilers of total (70 TPH + 125 TPH) 195 TPH boilers.

		for the proposed boiler		
2	Para 12	APCE Bag Filter with a stack of height of 60 m will be installed for controlling the particulate emissions within the statutory limit of 50 mg/Nm ³ for the proposed boiler	ESP as APCE with stack height of 85 m will be installed for proposed 125 TPH boiler for controlling the particulate emissions within the statutory limit of 50 mg/Nm ³ for the proposed boiler	Change in boiler capacity for ease of operation and maintenance
3	Para 20, A. Specific Condition Point no. viii	Bag filter with a stack height of 60 meters will be installed with the proposed boilers of capacities 50 TPH Biomass fired boiler for controlling the particulate emissions within the statutory limit of 50 mg/Nm ³	ESP with stack height of 85 m will be installed with the proposed boiler of 125 TPH biomass fired boiler for controlling the particulate emission within the statutory limit of 50 mg/Nm ³	Change in boiler capacity, stack height and APCE as ESP.
4	NA	NA (As per the approved layout plan of EC)	The industry proposes to shift the location of the 150 KLPD distillery in survey no. 148/A instead of survey no. 149 belonging to Vishwaraj Sugar Industries in the	The industry proposes to shift the location of distillery unit as the bagasse yard is near to the proposed location. Also, there is adequate land available for future expansion of distillery capacity.

			EC approved layout map which is only 250 m away of the existing distillery of 100 KLPD. The proposed location is part of the earlier approved Green Belt. The old location is being converted into proposed Green Belt. The areas of the two locations are same and as such there shall be no reduction in the overall green Belt Area.	
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Based on above change in configurations, EAC sought details related to changes in project costs due to change in boiler capacity from 50 TPH to 125 TPH and changes in AAQ modelling due to increase in stack height from 60 m to 85 m. In this regard, PP submitted the following additional changes due to envisaged changes:

Sr. No	Para of EC issued by MoEF&CC	Details as per the EC	To be revised/read as	Justification/reasons
1	Para No. 7	The estimated project cost is Rs. 150 Crores. Capital cost of EMP would be Rs. 30.45 Crores and recurring cost for EMP would be Rs. 2.74	The estimated project cost is Rs. 170 Crores. Capital cost of EMP would be Rs. 32.45 Crores and recurring cost for EMP would be Rs. 2.99	Increase in capital cost due to change in boiler capacity from 50 TPH to 125 TPH and as such change in CER Cost. Also increase in capital cost of EMP is due to increase in stack height from 60 m to 85 m.

		Crores per annum. Industry proposes to allocate Rs.1.125 Crores towards extended EMP (Corporate Environment Responsibility).	Crores per annum. Industry proposes to allocate Rs.1.275 Crores towards extended EMP (Corporate Environment Responsibility).	
2	Para. No. 9	AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 1.88 $\mu\text{g}/\text{m}^3$, 1.26 $\mu\text{g}/\text{m}^3$, 3.03 $\mu\text{g}/\text{m}^3$ and 3.24 $\mu\text{g}/\text{m}^3$ with respect to PM ₁₀ , PM _{2.5} , SO ₂ and NO _x . The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).	AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 1.00 $\mu\text{g}/\text{m}^3$, 0.67 $\mu\text{g}/\text{m}^3$, 2.97 $\mu\text{g}/\text{m}^3$ and 3.20 $\mu\text{g}/\text{m}^3$ with respect to PM ₁₀ , PM _{2.5} , SO ₂ and NO _x . The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).	Change in incremental concentration is due increase in stack height from 60 m to 85 m and change in fuel from bagasse briquette to bagasse.

After detailed deliberations EAC found the justification for amendment sought satisfactory and **recommended** the proposal for amendments in Paras (7), (9), (11), (12) & (20) of the exiting EC letter dated 09/01/2023 mentioned above.

However, all other terms and conditions mentioned in EC vide letter no. IA-J-11011/465/2022-IA-II(I) dated 09th January, 2023 shall remain unchanged.

ANNEXURE

GENERAL CONDITIONS FOR ENVIRONMENTAL CLEARANCE

- (i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (ii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
- (iii) 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 the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (iv) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (v) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change 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.

- (vi) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.
- (vii) 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&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- (viii) 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&CC by e-mail.
- (ix) 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 and at <https://parivesh.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 a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
- (x) 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.
- (xi) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

List of the Expert Appraisal Committee (Industry-2) members participated during Video Conferencing (VC) meeting

S. No.	Name and Address	Position
1.	Shri S. C. Mann	Chairman
2.	Dr. J. S. Sharma	Member
3.	Prof. Y. V. Rami Reddy	Member
4.	Dr. Onkar Nath Tiwari	Member
5.	Shri. J.S. Kamyotra	Member
6.	Dr. Rahul RameshraoMungikar	Member
7.	Dr. Sanjay V. Patil	Member
8.	Shri A. N. Singh, Scientist 'E'	Member Secretary
MoEFCC		
9.	Dr. Mahendra Phulwaria	Scientist 'C'
10.	Mr. Kanaka Teja	Research Assistant
