

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

Dated: 23.08.2023

**Meeting ID: IA/IND2/13544/17/08/2023
MINUTES OF MEETING OF THE EXPERT APPRAISAL COMMITTEE
(INDUSTRY-2 SECTOR PROJECTS)
HELD ON 17th August, 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/IND2/13534/26/07/2023**) held on 26th July, 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 August, 2023 (Wednesday)

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 (Industry-2) in its 14th meeting of EAC, 15th meeting of EAC and 16th meeting of EAC held during November 20-22, 2019, December 30-31, 2019 & January 01, 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. 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 diversion of 22.9648 ha.

The proposal was re-considered by the EAC (Industry-2) after submission of stage – I FC, in its Meeting ID: IA/IND2/13414/09/01/2023, Meeting ID: IA/IND2/13528/17/07/2023 held during January 9-10, 2023 and 17th July 2023 respectively. Information desired by the EAC and responses submitted by the project proponent is as under:

S. No.	ADS by MoEFCC	Reply by PP
1	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	Presently, the Tier-1 facility is being maintained by MPA (Mumbai Port Authority) through third party M/s Sadhav Shipping Company. Tier-1 Oil Spill Response (OSR) facility is available round the clock for handling the Oil spill emergencies in Mumbai harbor including Marine Oil Terminal (MOT). This facility has all the required equipment needed for oil pollution control viz, various booms, skimmers, dispersant etc. in

	<p>commitment/MoU with service provider.</p>	<p>sufficient quantities to meet the requirement of Tier-1 capability. Also, trained manpower having certification of International Maritime Organization (IMO) I/II/III levels is available round the clock to operate said facility. Oil Spill Response Center is available at Jawahar Dweep, Mumbai Port Authority established in Feb 2015 as per the contract.</p> <p>The said facility was implemented and being maintained as per the MOU made between the Mumbai Port Trust (MBPT), Jawaharlal Nehru Port Trust (JNPT) and all other Oil Participating Companies (OPC) on 18th Feb 2011 which is valid up to 17th Oct 2023. Oil participating companies does the contribution to the MPA for running the contract as per cargo handled by OPC in Mumbai harbour area including BPCL. Since contract monitoring is being done by MPA, the details shall be furnished by MPA to Coast Guard on behalf of OPC.</p> <p>BPCL committed that Oil Spill Management Plan will be in place during operation phase of the project.</p>
2	<p>From the raw data of ambient air quality data provided it appears that only a single 24 hourly sample has been collected for PM10, PM2.5, 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.</p>	<p>Environmental Baseline Data Collection has been carried for 01 season i.e. 03 months from 1st March, 2023 to 31st May, 2023 by NABL accredited Laboratory – M/s Idma Laboratories Limited, Panchkula (Haryana).</p> <p>Ambient air quality monitoring was carried out at 10 locations and parameters such as PM10, PM2.5, SO2, NOx, CO, NH3, O3, HC, C6H6, Toluene and Xylene were monitored. Parameters like PM10, PM2.5, SO2, NOx and NH3 were analyzed on 24 hourly basis; CO and O3 on 1 hourly basis at 8 hourly intervals; whereas HC and Benzene on 1 hourly basis once in a day. Sampling was carried twice a week during 12 weeks study period. EIL as well as the project proponent witnessed the AAQ monitoring and sampling done by the baseline agency at different sampling sites on a regular basis.</p> <p>The baseline data collection and laboratory</p>

		<p>analysis have been done as per CPCB guidelines and the results of baseline AAQ parameters are observed in the following range: PM10 (72.5 – 82.3 µg/m³), PM2.5 (37.2-45.3 µg/m³), SO₂ (17.9-22.4 µg/m³), NO₂ (24.1-34.7 µg/m³), CO (0.34-0.4 mg/m³), and Ozone (21.5-23.5 µg/m³) respectively.</p>																																			
3	<p>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.</p>	<p>The feed to the PP unit is Propylene which shall have negligible amount of Sulfur and traces, if any of sulfur contained in the feed stream shall be adsorbed in the Guard Bed provided inside the PP unit. The Natural Gas employed as fuel to the Boiler and Incinerator shall contain 8 ppm (Max) sulfur content which shall be released as SO_x emission from the Boiler and incinerator Stack in proposed project.</p> <p>The SO_x emissions have been further revisited based on the utilization of natural gas as fuel in the project and it is estimated that the Total SO_x emissions will be 0.05 kg/hr from the boiler and incinerator stacks. Sulfur balance is given as below.</p> <table border="1"> <thead> <tr> <th colspan="5">Sulfur / SO_x in Fuel / Flue Gas</th> </tr> <tr> <th>Stream</th> <th>TPD</th> <th>S (wt %) max</th> <th>S (TPD)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td colspan="5" style="text-align: center;">Fuel</td> </tr> <tr> <td>Boiler and Incinerator</td> <td>72.0</td> <td>0.0008</td> <td>0.000576</td> <td></td> </tr> <tr> <td colspan="5" style="text-align: center;">Flue Gas</td> </tr> <tr> <td>Total SO_x from the Boiler and Incinerator Unit</td> <td></td> <td>as SO_x</td> <td>0.001152</td> <td>Operation of the Incinerator shall be Intermittent</td> </tr> <tr> <td colspan="3">Total SO_x</td> <td>0.048</td> <td>as Kg/hr</td> </tr> </tbody> </table> <p>Accordingly, revised air quality modeling was carried out for the proposed project.</p>	Sulfur / SO _x in Fuel / Flue Gas					Stream	TPD	S (wt %) max	S (TPD)	Remark	Fuel					Boiler and Incinerator	72.0	0.0008	0.000576		Flue Gas					Total SO _x from the Boiler and Incinerator Unit		as SO _x	0.001152	Operation of the Incinerator shall be Intermittent	Total SO_x			0.048	as Kg/hr
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		The 24 hourly maximum GLC for SO ₂ and NO _x are predicted as 0.01 µg/m ³ and 2.35 µg/m ³ . Updated details of resultant GLC's are shown in table below:		
Name of Pollutants	Baseline Concentration in µg/m ³	Incremental Concentration in µg/m ³	Resultant ground level concentrations (GLC) Value in µg/m ³	Allowable Limit as per NAAQS in µg/m ³
SO ₂	22.4	0.01	22.41	80
NO _x	34.7	2.35	37.05	80

The committee found the baseline data submitted by the consultant adequate.

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) "Petrochemical 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 Rassayani, 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. The main issues raised during the public hearing along with written representations were discussed in the meeting held on 17th – 18th July, 2023 and reflected in its minutes of meeting.

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 long, 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 & PargaonDungi, in Panvel Taluka. In FC portion the pipeline is proposed to pass through villages Wahal, Sirdhon, PargaonDungi, 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.

The proposed pipelines, which are feed to proposed PP Plant at Rasayani are passing through coastal areas and marine water of the Arabian Sea. Maharashtra Coastal Zone Management Authority (MCZMA) has recommended the proposal vide letter no. CRZ 2019/CR 153/TC 4 dated

19.11.2019. Expert Appraisal Committee in 15th Meeting held during December 30-31, 2019 & January 1, 2020 (Agenda No.15.5.19) recommended the project for grant of Environmental & CRZ clearance subject to submission of 'Stage-1 Forest Clearance. Expert Appraisal Committee in 16th Meeting held during January 21-23, 2020 (Agenda No. 16.3.11) noted that, "The proposal was earlier considered, and recommended for grant of environmental clearance by the EAC (Industry-2) in its meeting held during 30-31 December, 2019 & 1st January, 2020 (Agenda No.15.5.19) subject to submission of Stage-1 Forest Clearance". MoEF&CC, Nagpur has issued Stage-1 Forest clearance vide F.No. FC-II/MH-163/2021-NGP/10134 dated 10.08.2022 after discussing the proposal in the 87th Regional Empowered Committee meeting held on 26th July 2022 at Nagpur.

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), PM2.5 (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 0.54 µg/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 0.05 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 Manintenance	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 Facilities 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 deliberation, the Committee noted the following:

- EAC inquired about the inclusion of the existing and proposed sub-sea pipelines within the scope of the Oil Spill Response (OSR) Center located at Jawahar Dweep, Mumbai Port Authority. In response, the project proponent (PP) conveyed that following the issuance of the Environmental Clearance (EC), the industry will establish a Memorandum of Understanding (MoU) with the aforementioned Oil Spill Response Center. In this regard PP has confirmed that OSR Tier-1 facility is available round the clock for handling the Oil spill emergencies in Mumbai harbor including Marine Oil Terminal (MOT) for

the existing sub-sea pipelines which is being maintained by Mumbai Port Authority through third party M/s Sadhav Shipping Company. Oil spill contingency plan for any potential leakage commensurate to the risk of the spill was submitted. Further, PP has also submitted an undertaking that proposed sub-sea pipelines in this project shall also be covered under the Oil Spill Management Plan prior to commissioning of the project.

- The committee found the baseline data submitted by the consultant adequate. However, the committee observed that the project proposal got delayed due to inefficiency of the consultant and poor recordkeeping of the raw baseline data. Therefore, the committee suggested that the accredited consultant M/s. Engineers India Limited (NABET certificate no. NABET/EIA/1922/RA0189_Rev01 and validity 22/11/2023) may be referred to QCI/NABET for assessing the training requirement and capacity building with emphasis on baseline data collection including methodology for monitoring of environmental attributes including site selection as well as ensuring quality of data collected from the third party.

The committee was satisfied with the response provided by PP on above information. Further, Committee desired to submit the above information in writing. Accordingly, PP has submitted the desired information and EAC found the information/commitments satisfactory.

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 EIA/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 & CRZ Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has

found the baseline data is within NAAQ standards. The Committee has deliberated the action plan proposed by the project proponent to arrest the incremental GLC due to the project. The Committee has also 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 & CRZ Clearance.

The Committee noted that as per the extant rules of the Ministry, the projects involving Environmental & CRZ clearance needs to be examined as per the CRZ Notification, 2011/2019. The Committee has taken cognizance of the recommendations of the MCZMA for CRZ clearance.

The Environmental & CRZ 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 & CRZ Clearance, subject to compliance of terms and conditions as under, and general terms of conditions at Annexure: -

- (i). PP shall comply with all the conditions stipulated in the recommendations of MCZMA issued vide its letter no. CRZ 2019/CR 153/TC 4 dated 19.11.2019 for grant of CRZ Clearance.
- (ii). All the commitments made to the public during public hearing/public consultation meeting held on 24.09.2019 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.

- (iii). 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, shall be obtained from the State Pollution Control Board.
- (iv). The steam generation boiler shall use clean natural gas from RLNG. Stack height of 50 m shall be provided with boiler to disperse gaseous emission.
- (v). Heaters/furnaces/boiler shall be provided with Low NO_x burners to reduce the emissions of Nitrogen Oxides.
- (vi). Gas detectors shall be provided in areas of the plant to detect any hydrocarbon leakage.
- (vii). A new demountable smokeless flare system shall be installed. The flare elevation and location shall be such so that there is no impact of thermal radiation on the operating personnel in the plant.
- (viii). Total fresh water requirement shall not exceed 375 cum/hr and proposed to be met from Maharashtra Industrial Development Corporation supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.
- (ix). Total wastewater generation from the proposed plant shall not exceed 160 m³ /h. Wastewater shall be treated in the Effluent Treatment Plant with tertiary treatment. Treated effluent shall be recycled/reused for cooling tower make up, process water, horticulture etc and no effluent/treated water shall be discharged outside the plant premises and Zero Liquid Discharge system shall be maintained.
- (x). Process effluent/any wastewater shall not be allowed to mix with storm water. The stormwater from the premises shall be collected and discharged through a separate conveyance system.
- (xi). As proposed, Waste oil from Tri Ethyl Aluminum (TEAL) contaminated systems shall be treated and incinerated. Incinerator shall be designed

as per CPCB guidelines. Regular stack monitoring shall be carried out for parameters as per CPCB standards.

- (xii). Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.
- (xiii). To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- (xiv). Solvent management shall be carried out as follows:-
 - a) Reactor shall be connected to chilled brine condenser system.
 - b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.
 - c) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.
 - d) Solvents shall be stored in a separate space specified with all safety measures.
 - e) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
 - f) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.
 - g) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xv). Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.
- (xvi). The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.

- (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 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.
- (xix). As proposed, Rs. 40.16 crores shall be allocated for Corporate Environment Responsibility(CER). The activities shall include providing Educational infrastructure, Water conservation, Skill Development, Health & Hygiene and other issues raised during public hearing/consultation.
- (xx). For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. The acoustic chambers/barriers should be provided for individual units wherever feasible in the compressor stations.
- (xxi). The unit shall make the arrangement for protection of possible fire hazards in material handling. Fire-fighting system shall be as per the norms. The company shall obtain all requisite clearances for fire safety

and shall comply with the stipulation made by the respective authorities.

- (xxii). Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act. The workers camp should have arrangement for safe drinking water, hygienic kitchen and sanitation facilities. The wastewater should be properly treated before disposal.
- (xxiii). The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- (xxiv). PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground. A dedicated team to oversee environment management shall be setup which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis. Any non- compliance or infringement should be reported to the concerned authority.
- (xxv). PP shall conduct third party audit of compliance of EC conditions at an interval of 1 year and its report shall be submitted to IRO, MoEF&CC.
- (xxvi). A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- (xxvii). Process safety and risk assessment studies shall be further carried out using advanced models, and the mitigating measures shall be undertaken accordingly.

Conditions for pipelines project

- (xxviii). The project authority shall ensure restoration of the Right of Way to preconstruction level as soon as construction activity completed. To

ensure prevention of soil erosion, backfilled areas should be properly compacted.

- (xxix). SCADA system shall be installed with dedicated optical fiber based telecommunication link for safe operation of pipeline and leak detection system.
- (xxx). Intelligent pigging facilities shall be provided for the entire pipeline system for internal corrosion monitoring. Coating and impressed current cathodic protection system shall be provided to prevent external corrosion.
- (xxxii). All the recommendations mentioned in the risk assessment report shall be implemented and Emergency response plan shall be based on guideline prepared by OISD.
- (xxxiii). The construction of pipelines through the waterbodies shall be avoided during the rainy season/ breeding seasons of aquatic animals.
- (xxxiv). Annual safety audit shall be carried out for the initial three years by an independent agency (OISD/PNGRB/DGMS etc.) and report submitted to this Ministry for ensuring the strict compliance of safety regulations on operation and maintenance.
- (xxxv). The construction of pipeline particularly at the river and stream crossing shall be done during dry seasons to avoid disturbance of breeding seasons and soil erosion. The riverbed, embankments and / dykes shall be restored adequately after installation of crossings.
- (xxxvi). Pipeline wall thickness and minimum depth of burial at river crossings and casings at rails, major road crossings shall be in conformity with ANSI/ASME requirements.
- (xxxvii). The PP shall follow horizontal drilling technique for laying of pipeline while passing through major rivers.
- (xxxviii). The project authorities shall patrol and inspect the pipeline regularly for detection of faults as per OISD/ PNGRB guidelines and continuous monitoring of pipeline operation by adopting non-destructive method(s) of testing as envisaged in the EMP. Pearson survey and continuous potential survey shall be carried out at regular intervals to ensure the adequacy of cathodic protection system.

- (xxxviii). Necessary approvals from Chief Controller of Explosives must be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans shall be prepared and implemented.
- (xxxix). 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. 02

Expansion of Molasses based Distillery (30 to 300 KLPD) using C / B Heavy Molasses/ Cane Syrup for Ethanol Production along with 6 MW Captive Power Generation, Enhancement in Cane crushing (3,500 to 7,500 TCD) by M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd. (NBSSKL); At: Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune, Maharashtra State - Consideration of Environmental Clearance.

[IA/MH/IND2/413481/2023, IA- J-11011/197/2008-IA-II(I)]

This proposal was earlier considered by the EAC (Ind-2) in its Meeting ID: Meeting ID: IA/IND2/13444/13/02/2023 held on 13th February, 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:

No.	ADS by MoEFCC	Reply by PP
1.	Bio composting shall be abandoned in the existing plant within 2 years. PP shall provide commitmen	The practice of Spent wash treatment through bio- composting process for existing 30 KLPD Distillery will be discontinued within next 2 years (i.e. by year 2025) after completion of distillery expansion project (30-300 KLPD) implementation. Subsequently, for spent wash treatment to be generated from the entire 300 KLPD distillery; spentwash incineration will be done (in dedicated incineration boiler) after concentration of the raw spentwash in MEE.

	t.																													
2	Action plan for replacing existing Wet scrubber with ESP.	A wet scrubber provided to existing 40 TPH Sugar Factory Boiler will be replaced by ESP as APC equipment under the expansion project. The ESP will be of 5-field type as directed by Hon. Committee Members. Presently, the crushing season (2023.24) is about to start and on site preparation for same are under progress. Only after completion of crushing period in May 2024, installation of ESP will be started and will be completed till September 2024.																												
3	NOC vide letter No. PID/PB-6/33/2022 dated 30.09.2022 issued by Asst. Superintending Engineer, Pune Irrigation Circle, Pune with certain conditions for left Nira Canal has been submitted by PP. Accordingly, PP shall comply with conditions.	The NOC for Left Nira Canal has been issued by Executive Engineer; Pune vide letter No. PID/PB-6/33/2022 dated 30.09.2022. As per conditions stated therein, the Industry hereby commits that – (1) the sewage and effluent from industry will be fully treated as per the MPCB norms and reused completely. No effluent / sewage will be released / discharged in any stream of the water resources department. The entire industrial complex will be a ZLD project after expansion, (2) all the proper care & precaution will be taken by the industry to observe norms laid down by Govt. of Maharashtra & India from time to time, (3) no industrial activities related to actual manufacturing, storage of raw materials / products etc. will be carried out near the canal, (4) only green belt of appropriate type & density will be developed near the canal along its alignment. EAC suggested that Greenbelt shall be developed along both sides of the canal passing through north and western side of the Industry within their plant premises. PP has informed that greenbelt of 07 – 10 m width shall be developed along the canal within their plant premises. PP has also informed that canal area is not included in the total plot area.																												
4	Steam balance for project.	<p>A detailed Steam Balance for the Sugar Factory, Cogeneration Plant & Distillery is presented below –</p> <p style="text-align: center;">Table 1 Steam Balance for Sugar Factory & Co-gen Plant Boiler</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">No.</th> <th style="text-align: center;">Particulars</th> <th style="text-align: center;">Unit</th> <th style="text-align: center;">Existing</th> <th style="text-align: center;">Proposed</th> <th style="text-align: center;">After Exp.</th> <th style="text-align: center;">Remarks</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Cane Crushing</td> <td style="text-align: center;">TCD</td> <td style="text-align: center;">3500</td> <td style="text-align: center;">4000</td> <td style="text-align: center;">7500</td> <td style="text-align: center;">---</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Crushing Rate</td> <td style="text-align: center;">TCH</td> <td style="text-align: center;">145</td> <td style="text-align: center;">312.5</td> <td style="text-align: center;">457.5</td> <td></td> </tr> <tr> <td style="text-align: center;">3</td> <td>Total Steam Generation:</td> <td style="text-align: center;">TPH</td> <td style="text-align: center;">106</td> <td style="text-align: center;">30</td> <td style="text-align: center;">136</td> <td style="text-align: center;">New Boiler of</td> </tr> </tbody> </table>	No.	Particulars	Unit	Existing	Proposed	After Exp.	Remarks	1	Cane Crushing	TCD	3500	4000	7500	---	2	Crushing Rate	TCH	145	312.5	457.5		3	Total Steam Generation:	TPH	106	30	136	New Boiler of
No.	Particulars	Unit	Existing	Proposed	After Exp.	Remarks																								
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2	Crushing Rate	TCH	145	312.5	457.5																									
3	Total Steam Generation:	TPH	106	30	136	New Boiler of																								

	136 TPH (Existing Boilers 66 TPH & 40 TPH + New Boiler 30 TPH = 136 TPH)					30 TPH under Expansion.
4	Steam Utilization					
	Steam to Deaerator	TPH	2.0	0.75	2.75	
	Steam to Condenser	TPH	1.0	0.26	1.26	
	Steam to HP Heater	TPH	9.25	1.54	10.79	
	Steam to Process	TPH	85.0	26.0	111.0	
5	Total Utilization	TPH	97.25	28.55	125.8	
6	Remaining Steam	TPH	8.75 (106 - 97.25)	1.45 (30 - 28.55)	10.2 (136 - 125.8)	

Table 2 Steam Balance for Distillery

No	Particulars	Unit	Expansion (300 KLPD)	Remarks
1	Distillery Production Capacity	LPD	3,00,000	
2	Production Rate	LPH	12,500	
3	Total Steam Generation / Availability	TPH	70	New 70 TPH Incineration Boiler (IB) under Distillery Expansion
4	Steam Utilization			
	a. Wash to Ethanol	TPH	35	
	b. CO ₂ Recovery Plant	TPH	1	
	Steam to Distillery	TPH	36	
5	MEE for Spentwash Concentration	TPH	22.5	
	Total Steam		58.5 TPH	60 TPH will be

		Required (4+5)	Say 60 TPH	obtained from 70 TPH Boiler.
5	CPU for sugar unit has not been installed. Action plan to be submitted 100% ZLD of sugar unit.	Under expansion there is a planning towards provision of CPU in Sugar Factory. Once the expansion project gets implemented, the entire integrated complex comprising of Sugar Factory, Distillery & Cogen Plant will become ZLD project w.r.t. all effluents. Thus, no any waste water will be allowed to go outside the industry plot premises. The infrastructure under 100% ZLD planning will be provided in the industry before commissioning of crushing season of 2024-2025 (i.e. before Sept. 2024). Details of ZLD Plan is submitted in ADS reply submitted on parivesh portal.		
6	Action plan for development of greenbelt by the end of 2023.	As certified by IRO, during inspection on 11.10.2022, industry had planted 28,750 trees on 11.8 Ha. which accounted for 27% of plot area. In order to comply with norm of 33%, additional 6% area; 2.80 Ha with 8242 trees was to be planted. Subsequent to the IRO visit, additional 2,200 trees were planted on area of 1 Ha. (till July 2023). Moreover, to achieve survival rate of trees (97%); a drip irrigation system along with dedicated manpower is provided for maintenance of the new plantation. Remaining plantation on 1.8 Ha with 6,050 trees will be completed till end of year 2023 as directed by Hon. Committee. It is proposed to spend Rs.35 Lakhs on Green Belt augmentation. Green Belt development plan is submitted in ADS reply submitted on parivesh portal. EAC suggested to complete additional plantation of Greenbelt on 1.8 Ha by October, 2023. PP agreed to it.		
7	Reasons for high PM ₁₀ and NO _x level in the ambient air.	Hon. Committee members asked reasons regarding somewhat higher levels of pollutants observed in AAQM results. Accordingly, it is clarified that the same are attributable to certain reasons namely – heavy traffic on the MDR passing by the industry plot, vicinity of major state highways & other MDRs to the industry site whereon there is heavy traffic of vehicles (trucks, tractors, multi-axel vehicles, buses, cars etc.). Also, the crushing season of the sugar factory was going on and the internal roads of industry were not properly surfaced. There is also presence of variety of industries like - jaggery plants, stone crushers, road metal asphaltting plants etc. Common practice of open burning of cane trash in the farms and heavy traffic of sugarcane carrying vehicles (tractors, trucks, harvesters etc.) on the roads in the vicinity of industry.		
8	Bagasse storage yard to be covered. Action plan to be submitted.	As per the commitment given by Industry during EAC meeting, the bagasse storage area near boiler will be provided with a permanent type structure comprising of covered shed made out of MS fabrication, GI & PUF cladding from sides and GI sheet roofing. Accordingly, the dedicated bagasse storage yard will be provided. This will be completed before end of 2024-25 crushing season. It is proposed to spend Rs. 1.2 Cr. on above-mentioned		

		arrangement. EAC suggested that covering of baggase storage yard by September, 2024 and black topping of internal roads shall be completed by October, 2023 against the proposed timeline. PP agreed to it.
9	Action plan for constructing pucca road inside the plant premises. Arrangement for mechanical sweeping and dust suppression system in the internal road.	The internal roads in the industry will be properly strengthened & appropriately surfaced (asphalted and concreted as per site conditions). It is proposed to spend Rs. 1.5 Cr. on constructing pucca roads and the work will be completed before end of 2024-25 crushing season. Further, as per commitment given by the Industry during EAC meeting, vehicle mounted mechanical sweeper & dust suppression system will be provided for cleaning purpose.
10	Ambient air quality modelling shall be done considering emissions from boiler and traffic.	The results of AAQ modelling done considering emissions from boiler and traffic is submitted in ADS reply submitted on parivesh portal.
11	Traffic management plan shall be provided.	Traffic Management Plan for transportation of vehicles of sugarcane & products as adopted in the Sugar Factory along with presentation of traffic density & environmental impact thereof is submitted in ADS reply submitted on parivesh portal.
12	Revised EMP and CER to be submitted.	Revised EMP and Revised CER Plan are submitted ADS reply submitted on Parivesh portal.
13	Budget for occupational health shall be provided.	As per suggestion of Hon. Committee, industry will provide Rs. 1 Cr for Occupational Health aspect.
14	Risk assessment and Risk mitigation Plan.	Risk assessment and Risk Mitigation Plan is submitted in ADS reply submitted on Parivesh portal.

EAC found the response of PP for ADS satisfactory.

The Project Proponent and the accredited Consultant M/s. Equinox Environments (I) Pvt. Ltd. (NABET Certificate no. : NABET/EIA/2124/SA 0177 and validity 10.10.2024) 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 Molasses based Distillery unit from 30 to 300 KLPD using C / B Heavy Molasses/ Cane Syrup for Ethanol Production along with 6 MW Captive Power Generation, Sugar Mill from 3,500 to 7,500 TCD located At: Shahajinagar, PO: Redni, Tal.: Indapur, Dist.: Pune, Maharashtra State by M/s.Nira Bhima Sahakari Sakhar Karkhana Ltd. (NBSSKL).

As per the 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) dated 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:

N o.	Name of unit	Name of the product/by product	Existing Production capacity	Additional production capacity	Total production capacity
1	Distillery	Ethanol	30 KLPD (C Heavy Molasses based)	270 KLPD (C/B-Heavy Molasses / Sugar Syrup)	300KLPD (C/B-Heavy Molasses / Sugar Syrup)
		RS / ENA	30 KLPD (C-Molasses based)	---	30 KLPD (C-Molasses based)
2	Co-generation power plant for Distillery	Power	--	6 MW	6 MW
	Co-generation power plant	Power	18 MW	-	18 MW

	for sugar mill				
3	Sugar mill	Sugarcane juice / syrup	3,500 TCD	4,000 TCD	7,500 TCD
4	Fermentation unit	Carbon dioxide	23 TPD	202 TPD	225 TPD

Note: Production capacity of distillery shall not exceed 300 KLD.

Ministry has issued Environmental Clearance to the Establishment of 30 KLPD Molasses based Distillery vide File No. F. No. J-11011/197/2008-IAII (I) dated 17.03.2009 & Establishment of 18 MW bagasse based Co-generation Power Plant vide File No. SEAC-2012/CR-177/TC2 dated 21.01.2014. Certified Compliance report of existing ECs have been obtained from Integrated Regional Office, MoEFCC, Nagpur vide File No-5-169/2009 (ENV)/10885 dated 06.01.2023. Action Taken report has been submitted to IRO; MoEFCC 16.01.2023 for 2 partial compliance and 1 non-compliance. EAC found the information satisfactory.

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 is pending against the project.

Total plant area after expansion will be 43.52 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, 14.60 Ha. i.e. 33% of total plant area is to be under green belt 12.60 Ha. i.e. 29% of the total plant area has already been developed as green belt and 2.00 Ha i.e. 4% of total plant area will be developed under greenbelt & plantation in and around plant premises. The estimated project cost for expansion is Rs 290 Crores. The capital cost and recurring costs of EMP for the proposed expansion would amount to Rs. 52.55 Crores and Rs. 4.17 Crores per annum, respectively. Industry proposes to allocate Rs. 3.54 Crores towards extended EMP (Corporate Environment Responsibility). Total Employment after expansion will be 1053 persons as direct & indirect.

There are no national parks, wildlife sanctuaries, ESZ, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors, Reserve Forests/Protected Forests etc. within 10 km distance. Bhima River is flowing at 8 Km from North to South direction. Nira River is flowing at 5.5 Km from west to East direction. The NOC for Left Nira Canal has been issued by Executive

Engineer; Pune vide letter No. PID/PB-6/33/2022 dated 30.09.2022 with certain conditions. EAC suggested that Industry shall abide all the conditions in the NOC issued. Further, it was also suggested that Greenbelt shall be developed along the canal passing through north and western side of the Industry within the plant premises. PP has informed that greenbelt of 07 – 10 m width shall be developed along the canal. PP has also informed that canal area is not included in the total plot area.

AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be $0.667 \mu\text{g}/\text{M}^3$, $0.167 \mu\text{g}/\text{M}^3$, $3.75 \mu\text{g}/\text{M}^3$ and $0.209 \mu\text{g}/\text{M}^3$ 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).

Total fresh water requirement after expansion will be $1124 \text{ M}^3/\text{day}$ (Sugar Mill $10 \text{ M}^3/\text{day}$ and Distillery $1114 \text{ M}^3/\text{day}$) which will be met from Bhima River. The committee suggested that the treated effluent from the sugar unit shall be used in distillery to reduce fresh water requirement. NOC has been obtained from Irrigation Dept.; Maharashtra vide letter no. AY101482 dated 01.11.2021. Existing effluent generation is $268 \text{ M}^3/\text{day}$ from sugar mill treated in full-fledged ETP and $59 \text{ M}^3/\text{day}$ from distillery which is treated existing ETP under Sugar Factory. Proposed total effluent generation from sugar factory after expansion will be $472 \text{ M}^3/\text{day}$ which will be treated in existing ETP (capacity $700 \text{ M}^3/\text{day}$) and that from the distillery will be $2565 \text{ M}^3/\text{day}$ which will be treated through proposed CPU (Capacity – $3000 \text{ M}^3/\text{day}$). PP informed that they will install efficient CPU for the sugar unit to recycle the treated effluent to be used in distillery unit. In molasses based & Sugarcane Syrup operation, spent wash generated (Molasses – 2400 CMD & Cane Juice – 1200 CMD) from the analyser column during distillation will be concentrated in Multi Effect Evaporator and concentrated spent wash will be incinerated in incineration boiler. Domestic waste water will be treated in existing STP (Capacity of STP in 30 KLD). The plant is being based on Zero Liquid discharge system and treated effluent/water is not to be discharged outside the factory premises.

Total power requirement of distillery & sugar mill after expansion will be 19.2 MW which will be sourced from existing 18 MW Co-generation power plant & 6 MW Captive Power generation. Existing sugar mill has 66 TPH & 40 TPH

bagasse fired boilers. Proposed 30 TPH bagasse fired boiler & 70 TPH Incineration boiler will be installed under Sugar Factory & Distillery respectively. APCE as ESP & Wet Scrubber with a stack of height of 75 M & 60 M are installed with the existing 66 TPH & 40 TPH boilers respectively for controlling the particulate emissions within the statutory limit of 50 mg/Nm³. PP confirmed that wet scrubber provided to existing 40 TPH Sugar Factory Boiler will be replaced by ESP as APC by September, 2024.

APCE as 2 separate ESPs with a stack height of 70 M & 100 M will be installed to proposed 30 TPH (Bagasse based) & 70 TPH (Incineration Boiler) for controlling the particulate emissions within the statutory limit of 50 mg/Nm³ & 30 mg/Nm³ respectively for the proposed boilers. Industry has already 500 KVA DG set which is used as standby during power failure and stack height (14 m AGL) is be provided as per CPCB norms to the DG sets.

Details of Process emissions generation and its management:

- APCE as ESP & Wet scrubber with a stack height of 75 M & 60 M is installed with the existing 66 TPH & 40 TPH boilers for controlling the particulate emissions within the statutory limit of 50 mg/Nm³. APCE as two separate ESPs with a stack of height of 70 M & 100 M will be installed to proposed 30 TPH & 70 TPH boilers for controlling the particulate emissions within the statutory limit of 50 mg/Nm³ & 30 mg/Nm³ for the proposed boiler respectively.
- Online Continuous Emission Monitoring System is installed with the stack and data transmitted to CPCB/SPCB servers.
- CO₂ (225 TPD) generated during the fermentation process will be collected by utilizing CO₂ scrubbers and /collected in installed bottling plant.

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

- Concentrated spent wash (480 M³/day) will be burnt in incineration boiler.
- Boiler ash (138 TPD) from incineration boiler after expansion will be used for Potash Recovery / Sold to Brick Manufacturer. Also, bagasse ash from sugar factory boilers after expansion (33 TPD) will be for Manure / Sold to Brick Manufacturer.
- Used oil (428 Kg/Month) will be sold to authorized recycler.
- CPU sludge (2.46 MT/D) and STP Sludge (0.03 MT/D) will be Used as

- manure
- Press mud (300 MT/D) will be sold as manure.
- Bagasse (2,138 MT/D) will be used as fuel in sugar mill.
- Molasses (140 MT/D) will be used as raw material in distillery.

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 of 270 KLPD & 4000 TCD will be used for manufacturing fuel ethanol only.

Capital cost and recurring cost of EMP are given below:

No.	Description	Cost (Rs. Lakhs)	
		Capital	O & M/Yr
A	Existing		
1	APC ESP & Wet scrubber, Stacks (2 Nos.; 75 & 60 M) & OCMS	930	90
2	WPC : Sugar Factory ETP OCMS, Bio-compost Yard, Machine, Sp. wash Tank & OCMS etc.	2200	220
3	Noise: Insulation, Isolation, Attenuation Infrastructure, PPEs	100	10
4	OHS Centre (Medical Check-up of employees, PPEs)	75	20
5	Environmental Monitoring & Management	50	20
6	Green Belt Development & Rain water Harvesting Plan	350	35
	(15% of Capital Investment of Rs. 255.01 Cr) Total	Rs. 3705	Rs. 395
B	Sugar Factory & Distillery Expansion		
1	APC Equipment: 3 ESPs & Stacks (100 & 70 M) & OCMS	2000	150
2	WPC: Proposed 2 CPUs, RO for ETP, MEE, Spent wash Storage Tank and OCMS.	2500	200
3	Noise: Insulation, Isolation, Attenuation Infrastructure & PPEs	75	15
4	Environmental Monitoring & Management	75	25
5	Occupational Health & Safety	100	10
6	Green Belt Development	35	5
7	Rainwater Harvesting Infrastructure	200	5
8	Bagasse Storage yard covering infrastructure	120	2
9	Internal roads strengthening & surfacing	150	5
	(18 % of Capital Investment of Rs. 290 Cr) Total	Rs. 5,255	Rs.417
	Grand Total	Rs.8960	Rs. 812

Details of CER with proposed activities and budgetary allocation:

No	CER Activity Details	Amount
1	Non- Conventional Energy Promotions (5 Villages; Lakhewadi, Bhodani, Reda, Vakilwasti, Redani): Provision of Solar Street Lights with Gadget – 1 MS Pole, 18-20 W LED Lamp, Battery, Solar Panel, Wiring etc. 5 Villages X 35 Nos./Village = Total 180 Solar Street Lights X Rs.30,000/- per No. = Rs. 54 Lakhs	Rs. 54
2	Solar Photovoltaic Electricity Generation System : (5 Villages; Kati, Jadhavwadi, Reda, Redani, Chakati) :400 KW @ Rs.40,000 per KW to be installed at Grampanchayat, School Bldg. & PHC Bldg. Cost: 400 KW x Rs. 50,000/- = Rs. 200 Lakhs	Rs. 200
3	Drinking Water Supply Infrastructure (10 Villages: Lakhewadi, Shetaphal Havel, Surwad, Reda, Redani, Survad, bawada, Chakati, Jadhavawadi & Sarafwadi): Safe Drinking Water Units with Filtration, RO Module & Storage Tank - 40 Units X Rs.2.5 Lakhs = Rs.100 Lakhs	Rs. 100
	(1.2 % of Capital Investment 290 Cr.) Total Amount	Rs. 354 Lakhs

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 capacity of 270 KLPD & 4000 TCD 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). 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.
- (iii). 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.

- (iv). The industry shall adhere to the conditions stipulated in NOC letter No. PID/PB-6/33/2022 dated 30.09.2022, issued by the Executive Engineer, Pune, for the Left Nira Canal.
- (v). NOC from the Concerned Local authority shall be obtained before start of the construction of plant and drawing from the Bhima River for the project activities, State Pollution Control Board / Pollution Control Committees 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. No ground water shall be used for the plant operations.
- (vi). Total fresh water requirement after expansion shall not exceed 1124 m³/day, which will be met from Bhima River. Treated effluent from the sugar unit shall be used in distillery to reduce fresh water requirement. 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). Spent wash shall be concentrated in Multi Effect Evaporator and concentrated spent wash shall be incinerated in incineration boiler. The MEE & Drier condensate, spent lees, WTP Rejects, Boiler & Cooling tower blowdowns, washings etc., is shall be treated in the 'Condensate Polishing Unit' (CPU). Efficient CPU shall be installed for the sugar unit to recycle the treated effluent to be used in distillery unit. STP of 30 KLD capacity shall be installed to treat domestic wastewater. The plant will be based on 'Zero Liquid Discharge' system and no effluent/treated water will be discharged outside factory premises. Spentwash treatment through bio-composting process for existing 30 KLPD Distillery shall be discontinued by 2025. No bio composting shall be done for the expansion unit.
- (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). Separate ESPs as APCE with a stack height of 70 M & 100 M respectively shall be installed with the proposed 30 TPH (Bagasse based) & 70 TPH (Incineration Boiler) for controlling the particulate emissions within the statutory limit of 50 mg/Nm³ & 30 mg/Nm³ respectively. Wet scrubber provided with the existing 40 TPH Sugar Factory Boiler shall be replaced by ESP (99.9% efficiency) by September, 2024. The SO₂ and NO_x emissions from the 70 TPH (Incineration Boiler) shall be maintained within the statutory limit of 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). Boiler ash (138 TPD) from incineration boiler after expansion will be used for potash recovery / Sold to Brick Manufacturer. Also, bagasse ash from sugar factory boilers after expansion (33 TPD) will be for manure / Sold to Brick Manufacturer. PP shall use bagasse along with 15 % coal as auxiliary fuel for the proposed incineration boiler. PP shall use bagasse fuel for the existing cogeneration boiler. PP shall meet 10% of the total power requirement from solar power by generating power inside plant premises/adjacent/nearby areas.
- (xi). CO₂ (225 TPD) generated during the fermentation process will be collected by utilizing CO₂ scrubbers and /collected in installed bottling plant.
- (xii). PP shall allocate at least Rs. 1.00 Crore/annum 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.
- (xiii). 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.

- (xiv). 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.
- (xv). 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.
- (xvi). 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.
- (xvii). The green belt of at least 5-10 m width shall developed in 14.60 hectares i.e., 33 % of total project area by October, 2024 which shall be maintained with tree density @ 2500 trees per hectares, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department, native species shall be developed and saplings 4-6 feet high shall only be planted. Records of tree canopy shall be monitored through remote sensing map. Additional green belt shall be developed along both sides of the canal passing through north and western side of the Industry within their plant premises.
- (xviii). PP proposed to allocate Rs. 3.54 Crores towards Extended EMP (CER) which shall be spent as submitted in CER plan for monitorable activities like up-gradation of schools with provision of facilities e.g. Class rooms, playground, Laboratory, Library, Computer class, toilets, potable drinking water facilities, solar light/solar power support for uninterrupted power supply, soil nutrient management etc. Further, all the proposed activities under CER shall be completed before the commissioning of the plant in consultation with District Administration.
- (xix). 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.

- (xx). 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.
- (xxi). 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.
- (xxii). 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.
- (xxiii). 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. 03

Proposed 56,000 TPA GREEN FIELD Coal Tar Distillation Plant for production of 30,800 TPA of Coal Tar Pitch; 22,120 TPA of Creosote Oil (light and heavy) and 1680 TPA of Crude Naphthalene located at Export Promotion Industrial Park (EPIP), under WBSIDC Ltd., Vill.: Bamunara, Mouza : Bamunara, P.S.: Kanksa, Dist.: Paschim Bardhaman, West Bengal by M/s. B S TAR PVT. LTD. - Consideration of Environmental Clearance.

[IA/WB/IND2/426590/2023, IA-J-11011/184/2023-IA-II(I)]

The proposal was earlier considered in EAC (Ind-II) meeting held on 26.07.2023 wherein the proposal was deferred as PP vide mail dated 25.07.2023 that due to unavoidable circumstances they will not be able to attend EAC meeting.

The project proponent M/s B. S. Tar Pvt. Ltd. and the accredited Consultant M/s Envirotech East Pvt. Ltd. (NABET certificate no. NABET/EIA/2225/RA 0279 and validity Sept. 12, 2025) made a detailed presentation on the salient features of the project and informed that the proposal is for environmental clearance to the project Proposed 56,000 TPA GREEN FIELD Coal Tar Distillation Plant for production of 30,800 TPA of Coal Tar Pitch; 22,120 TPA of Creosote Oil (light and heavy) and 1680 TPA of Crude Naphthalene at Export Promotion Industrial Park (EPIP), under WBSIDC Ltd., Vill.: Bamunara, Mouza : Bamunara, P.S. : Kanksa, Dist.: Paschim Bardhaman, West Bengal by M/s B. S. Tar Pvt. Ltd.

The project/activities are covered under category B of item 4 b (ii) Coal tar processing units of the Schedule to the Environment Impact Assessment Notification, 2006. Due to applicability of general conditions (location of the project site in SPA), the project requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry).

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

Unit	Product	Capacity (Tonnes /	* % distribution in coal tar	Remark	Sale outlet

		annu m)			
Coal Tar Distillation Plant	Coal Tar Pitch	30800	56.4	Electrode grade	Aluminium and graphite industry
	Creosote Oil - Heavy +Light	22120	40.6	Disinfecting emulsion & Fuel oil	Phenyl manufacture & Carbon black and heating purpose
	**Naphthalene-sludge from LCO	1680	3	Pest killer	Manufacture of Naphthalene balls
	Total Capacity	54600			

*Exclusion of the moisture in Coal Tar (2.5%)

** Naphthalene sludge is a part of creosote oil (heavy and light)

The Standard ToR has been issued by State Level Environment Impact Assessment Authority vide F. No. File no. EN-T-II-1/057/2021 dated 05-04-2021. PP has informed that no litigation pending against the proposal.

Public Hearing for the proposed project had been conducted by the West Bengal Pollution Control Board on 08.12.2021 at 12:00 Noon in the Venue of NH-2 (Hotel RITZ), Banskopa, (near Banskopa Toll Plaza), Durgapur-713212, District- Paschim Bardhaman, West Bengal, chaired by Sri. Sandip Tudu, Additional District Magistrate (L & LR), Paschim Bardhaman. The main issues raised during the public hearing and their action plan:

Concerns raised during Public Hearing	Physical Activity and Action Plan	Particulars	YEAR OF IMPLEMENTATION	
			1st Year	2nd Year
Generation of employment for the local people and youths	In the proposed project, top most priority will be given to the local people and youths for employment in M/s B. S.	Physical Target (2 Years)	M/s BSTPL will sponsor candidates chosen from local unemployed youths to these Institution. The candidates selected for the training will be exclusively from local area in and around the proposed green field project site.	

Concerns raised during Public Hearing	Physical Activity and Action Plan	Particulars	YEAR OF IMPLEMENTATION	
			1 st Year	2 nd Year
	<p>Tar Pvt. Ltd. based on their academic qualification & experience as may be applicable.</p> <p>Besides skill development to unemployed local youths in different areas through different vocational training institutions maintained by viz- Fosmi, Industry Associations, National Skill Development Corporation, Govt. of India, etc. M/s BSTPL will sponsor candidates chosen from local unemployed youths to these Institution.</p>	Budget : Rs. 4 Lakhs	Rs. 2 Lakhs	Rs. 2 Lakhs
Greenbelt Developmen	The company has	Physical Target	The physical Target for the entire activities shall be	

Concerns raised during Public Hearing	Physical Activity and Action Plan	Particulars	YEAR OF IMPLEMENTATION	
			1 st Year	2 nd Year
t	<p>earmarked 0.31 acres (33% of 0.94 acres) of land for Green Belt Development within the plant site considering the proposed EC for the project.</p> <p>Implementation of Tree Plantation Programme (2000 nos) in the nearby villages, on road side and in and around the playground located nearby project site. Adequate number of saplings will be distributed in different periods of the year to the villagers, and school students living nearby project site. The implementation process will be conducted in consultation with local civic</p>		achieved in 3 years.	
			Development of 1 no. park along with 1000 nos. tree plantation & distribution of saplings.	Development of 1 no. park along with 1000 nos. tree plantation & distribution of saplings.
		Budget : Rs. 10 Lakhs	Greenbelt development inside the plant included in the EMP Cost already.	

Concerns raised during Public Hearing	Physical Activity and Action Plan	Particulars	YEAR OF IMPLEMENTATION	
			1 st Year	2 nd Year
	body.			
Steps to be taken to control environmental pollution especially operation of Air Pollution Control Device during operation of the unit and Effluent treatment Plant	Adequate control measures like installation of Cyclone Separator, Wet Scrubber, dust suppression system, sprinklers & stacks of adequate height at relevant places will be installed.	Physical Target	The physical Target for the entire activities shall be achieved in 3 years.	
Control of road dust pollution of Banskopa-Gopalpur Road and roads located within Bamunara Industrial Area.	Air borne dust shall be controlled by mobile water sprinkler inside and outside the plant premises. Maintenance of air pollution control equipment shall be done at regular intervals. All roads shall be paved on which movement of raw materials or products will take place inside the	Budget	Included in the EMP Cost.	

Concerns raised during Public Hearing	Physical Activity and Action Plan	Particulars	YEAR OF IMPLEMENTATION	
			1 st Year	2 nd Year
	<p>plant premises. Dust collected from the bottom hoppers of the air pollution control equipment mentioned above will be given to local villagers for manufacturing of briquette, which will be used as solid fuel.</p> <p>No waste water will be discharged outside the plant area. The plant is designed as a zero discharge plant. The entire wastewater will be recirculated and recycled. The treated water will comply with the requirements of the standards applicable & in force in the country. Such standards have been</p>			

Concerns raised during Public Hearing	Physical Activity and Action Plan	Particulars	YEAR OF IMPLEMENTATION	
			1 st Year	2 nd Year
	<p>proposed by CPCB & MoEF&CC. The treated effluent will be recycled in the process and also for various non critical purposes as may be applicable. The Noise control management shall comply with the Statutory limit of 85 dB(A) (at 1 m. from the source). Noise Reduction Systems will be provided.</p>			
Total Budget - Public Hearing related: Rs. 14 Lakhs				

Need based Activities	Particulars	Year of Implementation	
		1 st Year	2 nd Year
Distribution of Masks, Duster and sanitizer to the local people.	Physical Target:	4,000 nos. Mask, sanitizer and duster will be distributed in and around the project site based on need.	
COVID vaccination will also be done to the local people	Budget : Rs. 2 Lakhs	Rs. 1 Lakh	Rs. 1 Lakh
Providing Dustbins	Physical	100 nos.	100 nos.

(300 nos @Rs. 1000/- per unit) in nearby villages (under Swachh Bharat Scheme) for waste segregation and handling	Target:	Dustbins	Dustbins
	Budget : Rs. 2.0 Lakhs	Rs. 0.5 Lakhs	Rs. 0.5 Lakhs
Special donation on need basis to primary schools/libraries located in and around the project site and scholarships to under privileged students.	Budget : Rs. 3.0 Lakhs	Rs. 1.5 Lakhs	Rs. 1.5 Lakhs
Total Budget - Need based activities : Rs. 6 Lakhs			
Overall Budget (Public Hearing related + Need based Activities): Rs. 20 Lakhs			

Environmental Site Settings

Sl. No.	Particulars	Details
	Total land	The proposed project will be installed on the available 0.94 acres (0.38 hectares) vacant land within Export Promotion Industrial Park (EPIP), under WBSIDC Ltd.
	Greenbelt	M/s BSTPL will develop green belt for the proposed project inside the plant in an area amounting to 0.376 Acre/0.15 Ha of land. The total land area for the project is 0.94 Acre/0.38 Ha i.e. 40% of the total project area
	Estimated Project Cost	7.52 Crores
	Capital cost of EMP	100 Lakhs
	Recurring cost of EMP	9.5 Lakhs
	Corporate Environmental	20 Lakhs

	Responsibility	
	Total Employment	64

The proposed project will be installed on the available 0.94 acres (0.38 hectares) vacant land within Export Promotion Industrial Park (EPIP), under WBSIDC Ltd. M/s BSTPL will develop green belt for the proposed project inside the plant in an area amounting to 0.376 Acre/0.15 Ha of land. The total land area for the project is 0.94 Acre/0.38 Ha i.e. 40% of the total project area. The estimated project cost is Rs. 7.52 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs 1.00 crores and the recurring cost (operation and maintenance) will be about Rs 0.095 crores per annum. Total employment will be 64 persons. Industry proposes to allocate Rs 0.20 crores towards Corporate Environment Responsibility (CER).

There are no national parks, wildlife sanctuaries, Biosphere reserves, Tiger/Elephant Reserves, Wildlife corridors etc. within 10 km. Distance. River damodar is at a distance of 5.3 Kms in WSW direction w.r.t. the Project site, for which NOC has been obtained from State Irrigation Department vide letter no. 1386 dated 27.06.2023 certifying that the said area does not fall within the river flood prone area and since last 25 years no incidence of flood is recorded in the proposed project area.

Ambient air quality monitoring was carried out at 8 locations during 1st March, 2021 – 31st May, 2021 and the baseline data indicates the ranges of concentrations as: PM₁₀ : 52 - 90 µg/m³, PM_{2.5} : 19 - 44 µg/m³, SO₂: 4 - 16 µg/m³, and NO₂: 10 - 32 µg/m³. AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be PM = 0.862 µg/m³ (0.5 km in NE), SO₂ = 1.61 µg/m³ (0.5 km in NE), NO_x = 1.61 µg/m³ (0.5 km in NE). AAQ modelling study for point source emissions indicates that the maximum overall concentration of PM, SO₂ & NO_x after adding the total contribution from the project will be 90.14 µg/m³, 16.33 µg/m³ & 32.33 µg/m³ respectively. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total fresh water requirement for project is 30 KLD. 4 KLD will be recovered and will be used in the recycling process, green belt and dust suppression.

Daily water demand is 26 KLD of fresh water, which will be obtained from WBSIDCr and the permission for drawl of surface water is obtained from WBSIDCL dated 19th January, 2021 vide application letter dated 19.01.2021. Application seeking permission for a Borewell digging inside the premise has been made on 24/08/2021 to SWID & CGWB, Salt Lake, West Bengal as a stand by arrangement for water supply. The plant will be based on Zero Liquid discharged outside factory premises.

The power requirement for the project is estimated as 250 KVA, which will be sourced from The Power requirement of 250 KVA will be met from the supply of WBSEDCL. APCE Cyclone Separator, Wet Scrubber with a stack height of 30m will be installed for controlling the particulate emissions within the statutory limit of 50 mg/Nm³ for the proposed boiler. 50 KVA DG set will be used as standby during power failure and stack height (4 m from rooftop) will be provided as per CPCB norms to the proposed DG sets.

During deliberation, the Committee noted the following:

- The PP has applied for Terms of Reference in PARIVESH portal on 24.02.2021 as a greenfield project. SEIAA issued Auto ToR vide letter EN-T-II-1/057/2021 dated 05.04.2021. Thereafter, PP has applied for Environmental Clearance to which was considered by the SEAC in its 50th meeting held on 31.08.2022. The SEAC opined that proposal may be considered at MoEF&CC as per Ministry's O.M. dated 31.10.2019 and 30.12.2019 and 05.07.2022 as the project activity falls within 5 Km. of the boundary of Durgapur Municipal Corporation area, which is declared as Severely Polluted Area.
- SEIAA, West Bengal forwarded the proposal to the EAC (Industry-1) of MoEF&CC for appraisal. EAC (Industry-1) considered the proposal for appraisal in 24th EAC Meeting held on 28th February, 2023 to 1st March, 2023. wherein it was observed that due to mistake of the proponent and the consultant, the project was reviewed for EC presentation by the EAC (Industry-1) of MoEF&CC. The instant project i.e. Coal Tar Processing Industry shall be considered for EC presentation by Hon'ble EAC (Industry-2). Accordingly, EAC Industry-1 MoEF&CC advised MS to forward the total documents and developments to Hon'ble EAC (Industry-2) MoEF&CC.

- It was observed that the EIA/EMP report still indicates the current project's classification as item 4b, "Coke Oven Plants," in accordance with the Schedule of the EIA notification. Additionally, it came to attention that while the EIA/EMP report initially proposed a green belt coverage of 33%, the PP/consultant now refers to a 40% green belt coverage without any corresponding layout modifications. Consequently, the EAC recommended that the consultant undertake a review of the EIA/EMP report, revising it as necessary to eliminate any inconsistencies in the provided data. Also, consultant shall correct the EIA/EMP report w.r.t categorization of activity as item 4 (b) (ii) Coal tar processing unit.
- The proposed project falls under SPA. Therefore, PP shall submit point wise action plan as per OM F. No 22-23/2018-IA.III (Pt) dated 31.10.2019.
- The use of a standby arrangement from a bore well to fulfil the requirement for fresh water shall not be allowed.
- Baseline data shall also be collected for both Methane and Non-Methane Hydrocarbons, as well as Polyaromatic Hydrocarbons for one month.
- Risk assessment for the proposed project shall be carried out.
- PP shall submit need-based CER.
- PP shall also submit detailed list of Capital and recurring cost of EMP for the proposed project.
- PP shall provide list of at least 20 variety of species indigenous species to be developed as part of greenbelt. No invasive or alien or non-native tree species shall be selected for plantation.

Accordingly, the proposal was returned in present form

Agenda No. 04

Proposed expansion of sugarcane crushing capacity from 4800 TCD to 12500 TCD and distillery capacity from 60 KLPD to 500 KLPD (Ethanol) based on sugarcane juice /syrup/"B" heavy molasses/"C" molasses/denature spirit as raw material" at Kacharewadi , Taluka:

Mangalwedha, District: Solapur-413 305, Maharashtra by M/s Utopian Sugars Limited - Consideration of Environmental Clearance.

[IA/MH/IND2/409558/2022, IA- J11011/223/2 015-IA-II(I)]

PP vide email dated 17.08.2023 informed that due to unavoidable circumstances they are unable to attend the meeting and requested project for appraisal in the next upcoming meeting.

Accordingly, the proposal was deferred for consideration in the next meeting.

Agenda No. 05

Establishment of 200 KLPD distillery unit based on Sugarcane juice/syrup as raw material and 100 KLPD grain based distillery to produce ethanol, sugarcane crushing unit of 2500 TCD and Co-generation unit of 7.5 MW at sy no. 73/1 and 79/4, village Jalageri, Tal. Tikota, Dist. Vijayapura, Karnataka by M/s Nadagouda Roadlines Pvt. Ltd- Consideration of Environmental Clearance.

[IA/KA/IND2/437341/2023, IA-J-11011/104/2023-IA-II(I)]

The Project Proponent and the accredited Consultant M/s Dr. Subbarao's Environment Center, Sangli (NABET certificate no. NABET/EIA/2023/SA/0174-and validity till 12th Dec 2023) made a detailed presentation on the salient features of the project and informed that the proposal is for environmental clearance to the project Environment Clearance for establishment of 200 KLPD distillery unit based on Sugarcane juice/syrup as raw material and 100 KLPD grain based distillery to produce ethanol, sugarcane crushing unit of 2500 TCD and Co-generation unit of 7.5 MW located at Village Jalageri, Tehsil Tikota, District Vijayapura, State Karnataka by M/s. Nadagouda Roadlines Pvt. Ltd.

All Cane juice/ non-molasses-based distilleries (> 100 KLD) are listed at S.N. 5(g) distillery of Schedule of Environment Impact Assessment (EIA)

Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

The details of products and capacity as under:

Sr. No.	Unit	Product/ By-Product	Total quantity
1	TCD	Sugar Crushing Capacity	2500
2	MW	Bagasse based Co-generation unit	7.5
3	KLPD	Ethanol in KLPD based on juice/syrup	200
4	KLPD	Ethanol in KLPD based on grains	100
5	TPD	CO2	100-120
6	TPD	DDGS	65-70

Note: Production capacity shall not exceed 300 KLPD at any point of time.

Standard Terms of Reference have been obtained vide F. No. IA-J-11011/104/2023-IA-II(I) dated 15th March 2023. It was informed that there is no litigation against the proposal.

Public Hearing for the proposed project had been conducted by the Karnataka State Pollution Control Board on 07/07/2023 at Factory site (A/p- Jalageri, Tal. Tikota, Dist. Vijayapura) chaired by Additional Deputy Commissioner, Vijayapura. The main issues raised during the public hearing and their action plan:

Issues in brief	Action plan in brief	Budget allocated and timeline
All the participants supported the proposal of establishing distillery unit	NA	6.2 Crores shall be spent as CER after approval from the District Collector

Total land area required is 8.87 hectares. Greenbelt will be developed in total area of 2.92 hectares i.e., 33.03 % of total project area. The estimated project cost is Rs. 248 Crores. Capital cost of EMP would be Rs. 24.30 Crores and recurring cost for EMP would be Rs. 3.30 Crores per annum. Industry proposes to allocate Rs. 6.2 Crores towards Extended EMP (Corporate Environment Responsibility). Total Employment will be 300 persons as direct & indirect.

There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance. Reserve forests: -Konbagi at a distance of 5.8 km in NNE direction, Boblad at a distance of 8.8 km in NE direction, Asangi Turk at a distance of 9 km in NE direction.

Ambient air quality monitoring was carried out at 8 locations during 1st Dec 2022 to 28th Feb 2023 and the baseline data indicates the ranges of concentrations as: PM₁₀ (44.0- 68.70µg/m³), PM_{2.5} (21.20-36.10µg/m³), SO₂ (8.0-15.50µg/m³) and NO₂ (10.30-18.80µg/m³).AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.98 µg/m³ , 0.65 µg/m³ , 3.39 µg/m³ and 3.02 µg/m³ with respect to PM₁₀, PM_{2.5}, SO₂ and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total fresh water requirement will be 425 CMD (105 KLD for sugar and co-gen unit, 20 KLD for domestic and 300 KLD for distillery unit) which will be met from Borewells in the project area. Application has been submitted to Karnataka Ground Water Authority, vide file no. KGWAN1072494586 dated 16/07/2023. Sugarcane crushing unit Effluent of 420 CMD quantity will be treated through Effluent Treatment Plant of capacity -450 KLPD. Distillery effluent i.e. conc. Spentwash of 130 KLD from sugarcane juice/syrup based distillery shall be treated based on MEE followed by drying and other diluted effluent of 1360 KLD shall be treated in proposed distillery CPU of 1500 KLD. Spent Wash/stillage from 100 KLPD grain based distillery will be sent to the decanter followed by the Multiple Effect Evaporator and dryer to form DDGS. DDGS to be used as cattle feed. STP of capacity -20 KLPD will be installed to treat sewage generated from factory premises. The plant will be based on Zero Liquid discharge system and no effluent/treated water will be discharged outside factory premises.

Power requirement will be 7 MW and will be met from proposed -7.5 MW co-generation power plant. 1*45TPH bagasse fired boiler will be installed. APCE as Electrostatic Precipitator (ESP) with a stack of height of 55 m will be installed for controlling the particulate emissions within the statutory limit of 50 mg/Nm³ for the proposed boiler. 1*500 KVA DG set will be used as standby during power failure and stack height of 6m above roof level will be provided as per CPCB norms to the proposed DG sets.

Details of Process emissions generation and its management:

Sr. No.	Stack attached to	Types of Fuel	Height in meter	APC System
1	Sugar Boiler 1*45 TPH	Bagasse	55m	ESP

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

Sr. No.	Description of waste	Quantity	Mode of Collection and Disposal
1.	Total Boiler Ash (Bagasse as a fuel)	194.4 MT/M	All the boiler ash shall be used for brick manufacturing.
2.	ETP Sludge	100 MT/A	ETP Sludge shall be used as manure.
Other Solid Wastes			
1.	Paper waste	0.01 MT/M	Manually collected and stored in a designated area and sold to scrap vendors.
2.	Plastic waste	0.01 MT/M	
3.	Municipal Solid waste		
4	Non-Biodegradable	5 MT/M	Manually collected and sold to scrap vendors.
	Bio-degradable	7 MT/M	Used in Composting.

Total land of 8.87 Hectares is under possession of the company and land use conversion has been completed vide application no. 428535 dated 23/06/2023 land use conversion application has been submitted to –Govt. of Karnataka, Office of the Deputy Commissioner, Vijayapura dated 21/12/2022

Capital cost and recurring cost of EMP are given below:

Sr. No.	Component	Particulars	Capital in Lakhs	Recurring in Lakhs	
1	Air	Construction of new stack for boiler and ESP	200	20	
2	Water	Sugar CPU, Distillery CPU. MEE and Drier for Distillery Spentwash treatment	2000	50	
3	Noise	Acoustic enclosures, Silencer pads, ear plugs etc.	20	5	
4	Environment monitoring and Management	Monthly Environment Monitoring (Per Year)	--	10	
		Ambient air monitoring			PM ₁₀ , PM _{2.5} , SO ₂ , NO _x
		Boiler & DG Set			TPM, SO ₂ ,

		Monitoring	Nox		
		Effluent (Treated &Untreated)	pH, COD, BOD, TSS, TDS, Oil & Grease		
5	Occupational Health	Glares, Breathing Masks, Gloves, Boots, Helmets, Ear plug and ear mask etc. & annual health-medical checkup of workers, Occupational Health (training, OH center)		60	10
6	Greenbelt	Green belt development activity		10	5
7	Solid Waste Management	Solid Waste Management		50	20
8	Rain water harvesting	Rain water harvesting		20	5
9	Storm water drainage	Storm water drainage design and construction		20	5
10	Carbon and Water Foot Print	Maintain the data of raw materials consumption, steam consumption, vehicle frequency for transport of raw materials, effluent generation, air emissions, hazardous waste generation, and raw material recovery		--	20
11	Solar Power & Energy Conservation (0.5MW)	Street lights installation with Solar Systems		--	150
12	Fire and Safety	Fire and Safety Management		--	20
13	Laboratory	Testing and Analysis		50	10
Total Cost (In Lakhs)				2430	330

Details of CER with proposed activities and budgetary allocation:

Sr. No.	Activity	Cost in Lakhs
1	Sanitation, Drainage and waste treatment plant facilities	50

	in the nearby villages	
2	Drinking water facility in the nearby villages	30
3	Street light of LED bulbs in the nearby villages	50
4	Solid waste & management in nearby villages	40
5	Educational aids such as computers, E-learning materials etc., in the command area, Primary schools High-schools & Agricultural engineering college and skill development	200
6	Medical camps in nearby villages	50
7	Solar Power to nearby villages	200
Total		620

During deliberations, EAC discussed following issues:

- (i) EAC noted that a nala is passing along the boundary of the project. In this regard, it was suggested that PP should obtain NOC from Irrigation department for the establishment of the proposed distillery. Accordingly, PP has submitted NOC letter No. SN&AAE/UV/VJAYAPURA/2023-24/231 dated 18.08.2023 which was issued by Assistant Executive Engineer, Minor Irrigation department stating that the water is available in the nala only during the rainy season i.e., June to October and they have constructed Bandar to the nala for the agricultural use only and survey No. 73/1 and 79/4 beneficiaries have not obtained permission to use water and they have issued no objection letter to them.
- (ii) PP shall submit revised list of activities proposed in CER along with timeline and budgetary allocation. Committee noted that Revise plan is not submitted
- (iii) PP informed that impact of traffic study is covered in the EIA report i.e. line source emission at section 3.5.7.1. Committee noted that Table 8 under the para provides the emission factors and the load in g/s. It does not provide any information with regard to impact of vehicular emissions on the ambient air quality.
- (iv) PP shall not store raw Spent wash. PP shall give commitment that capacity storage of concentrated spent wash shall not exceed 5 days.
- (v) PP shall replace sludge drying belt with filter press.
- (vi) EAC noted that village road of 10 m width is passing between the proposed project site. They will provide right of way i.e. adequate space on either side of the village road for future development

alongwith storm water drainage system. Accordingly, PP has provided the undertaking.

- (vii) PP has submitted revised indigenous species for greenbelt development.
- (viii) PP was asked to switch over to Air cooled condensers , utilise the sugarcane ETP treated effluent make provision of Ro in CPU so that the treated effluent can be reused and submit revise water balance which is not available in the reply .
- (ix) It was noted that the Environmental Policy at Para 6.1.1 page 152 of the EIA report is not as per the discussions, neither approved by the board.
- (x) No inference/ corelation can be drawn from the water quality data, for which no clarification was provided by PP.

However, PP has not submitted the information desired above at S.N. **(ii), (iii), (viii), (ix) and (x)**.

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

Agenda No. 06

Proposed expansion of existing Distillery/ Ethanol plant from 30 KLPD to 105 KLPD (for fuel ethanol) located at village Kasar Pimpalgaon, Adinathnagar, Tal. Pathardi, District Ahmednagar, Maharashtra by M/s. Shri. Vridheshwar Sahakari Sakhar Karkhana Limited- Consideration of Environmental Clearance.

[IA/MH/IND2/403462/2022, IA-J11011/213/2020-IA-II(I)]

The Project Proponent and the accredited Consultant M/s. MITCON Consultancy and Engineering Services Ltd. (NABET certificate no. NABET/EIA/2124/RA 0229_Rev 02 and validity 05.02.2024) made a detailed presentation on the salient features of the project and informed that the proposal is for environmental clearance to the Proposed expansion of existing Distillery/ Ethanol plant from 30 KLPD to 105 KLPD (for fuel ethanol) located at village Kasar Pimpalgaon, Adinathnagar, Tal. Pathardi, District

Ahmednagar, Maharashtra by M/s. Shri. Vridheshwar Sahakari Sakhar Karkhana Limited.

As per the MoEF&CC, Notification number S.O. 345(E), dated 17th January, 2019, notification number S.O. 750(E), dated 17th February, 2020, S.O. 980 (E) dated 02nd March, 2021 & S.O. 2339(E), dated 16th June, 2021 a special provision in the EIA Notification, 2006 (Schedule 5 (g)), a special provision in the EIA Notification, 2006-(Schedule 5(g)) "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:

Sr. no.	Name of unit	Name of the product/by-product	Existing Production capacity	Additional Production capacity	Total Production capacity
1)	Distillery (B Heavy Molasses, Sugarcane syrup - Raw material)	Ethanol	RS/ENA/AA/ Ethanol 30 KLPD	Ethanol 75 KLPD	105 KLPD
2)	Co-generation power plant for distillery	Cogeneration	1.0 MW	2.4 MW	3.4 MW
3)	Fermentation unit	Carbon di-oxide	31 TPD	42 TPD	73 TPD

SEIAA has issued Environmental Clearance to the existing Industry for a capacity of 30 KLPD vide File No. SIA/MH/IND2/67431/2020 dated 07.12.2021 Certified Compliance report of existing EC has been obtained from Integrated Regional Office, Nagpur vide File no- MoEFCC, EC-1950/RON/2022-NGP/11249 dated 22.02.223. Action Taken Report has been submitted to IRO, MOEFCC, Nagpur dated 01.08.2023 for two partial compliances related to advertisement of EC issued in two newspapers and appointment of officials for Environment Management Cell. The committee desired to submit commitment that Industry shall not repeat the mistake of advertising EC only in one newspaper. PP shall submit ATR on appointment of officials for Environment Management Cell.

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 31.32 Ha which is under possession of the company. 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 10.31 Hectares i.e. 33% of the total plant area will be developed under greenbelt & plantation in and around plant premises. The estimated project cost is Rs. 145 Crores. Capital cost of EMP would be Rs. 33.59 Crores and recurring cost for EMP would be Rs. 0.62 Crores per annum. Industry proposes to allocate Rs. 1.1 Crores towards extended EMP (Corporate Environment Responsibility). Total Employment after expansion will be 120 persons as direct & indirect.

There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance. Reserve forests patches near Dhamangaon village at a distance of ~8.0 km in SE direction. Conservation plan for schedule I species has been submitted to The conservator of forest (Pune wildlife division), Pune dated 01.10.2021 and a budget of 0.70 Crores has been earmarked for the same. Water bodies Mula canal is at a distance of 4.20 Km in NNE direction and Jambhul Odha is at a distance of 1.0 Km in WNW direction.

Revised AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.05 $\mu\text{g}/\text{m}^3$, 0.03 $\mu\text{g}/\text{m}^3$, 1.98 $\mu\text{g}/\text{m}^3$ and 0.50 $\mu\text{g}/\text{m}^3$ 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).

Total fresh water requirement after expansion will be 218 CMD which will be met from Mula Right Canal (name of river, if any). Application has been submitted to Water resources department, Mula Irrigation department dated 25.09.2021 or NOC has been obtained by Water resources department, Mula Irrigation department vide letter no. जा.क्र/मुपावि/सिं./3896/2021 dated 31.10.2021. Existing effluent generation is 320 CMD from distillery which is treated through Condensate Polishing Unit of 430 CMD. Proposed effluent generation will be 694 CMD from

distillery which will be treated through upgraded Condensate Polishing Unit of 720 CMD. In molasses based operation, spent wash generated from the analyser column during distillation will be concentrated in Multi Effect Evaporator and concentrated spent wash will be burnt in incineration boiler. Domestic waste water will be treated in Modular STP of capacity 5 KLPD. The plant is being/will be based on Zero Liquid discharge system and treated effluent/water is being/will not be discharged outside the factory premises.

Total power requirement of distillery after expansion will be 3.4 MW which will be sourced from proposed 3.5 MW co-generation power plant in distillery. Existing distillery has 15 TPH slop fired boiler. 35 TPH slop fired boiler will be installed in distillery (Existing 15 TPH boiler will be augmented to 35 TPH Slop fired boiler for the proposed distillery). APCE as ESP with a stack height of 72 m will be installed for controlling the particulate emissions within the statutory limit of 50 mg/Nm³ for the proposed augmented boiler. Industry has 320 kVA & 187 kVA DG set which will be used as standby during power failure and stack height (12 m) will be provided as per CPCB norms to the proposed DG sets.

Details of Process emissions generation and its management:

- APCE as Electro Static Precipitator with a stack height of 72 m will be installed for controlling the particulate emissions within the statutory limit of 50 mg/Nm³ for the proposed augmented boiler.
- Online Continuous Emission Monitoring System has been installed for existing capacity with the stack and data will be transmitted to CPCB/SPCB servers.
- CO₂ (73 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.

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

- Concentrated spent wash (130 m³/day) will be burnt in incineration boiler.
- Boiler ash (25.1 TPD) supplied to brick manufacturers
- Used oil (0.5 Kilolitres per annum) will be sold to authorized recyclers.

- CPU sludge (0.8 TPD), Yeast sludge (15 TPD) and STP Sludge (0.4 TPD) will be used as manure.

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 of 75 KLPD will be used for manufacturing fuel ethanol only.

Capital cost and recurring cost of EMP are given below:

A	Construction phase (with Break-up)	Capital Cost	O & M
		(Amount in lakhs)	
1	Environmental monitoring	0	3
2	During site preparation	3	2
3	Noise and solid waste management	3	2
4	Water and waste water	5	2.5
5	Occupational health	3	2.5
6	Greenbelt development	2	3
	Total (A)	16	15
B	Operation Phase (with Break-up)	Capital Cost	O & M
		(Amount in lakhs)	
1	Air pollution	2820	20
2	OCEMS	20	
	Incineration boiler	2500	
	Stack	200	
	ESP	100	
3	CPU	250	5
4	Environmental Monitoring (Air, water, waste water, Soil, Solid waste, Noise)	50	15
5	Occupation health	40	5
6	Green belt	50	5
7	Solid waste	3	2
9	CER	110	0
10	Rain water Harvesting	50	5
	Total (B)	3373	57
	A+ B	3389	72

Details of CER with proposed activities and budgetary allocation:

Sr. No	CER Activity	Proposed CER Location	Details	Quantities	Total Amount in Rs
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1	Water Supply	Kasar Pimpalgaon	Providing portable/filtered water supply	2	50,000
		Tisgaon		2	50,000
		Padali		2	50,000
		Nivadunge		2	50,000
		Somthane Kh.		2	50,000
				10	2,50,000
2	Providing 50 Nos. of Solar street lamps nearby	State Highway 148 (Ahmednagar Shevgaon Paithan Road)	Electrification and solar work for nearby village road with the help of gram panchayat	25	3,75,000
		Nivadunge internal village road		25	3,75,000
				50	7,50,000
3	Providing Ambulance	Primary health Centre, Tisgaon	Providing Ambulance to the nearby Gov. Hospitals	2	40,00,000
		Shirapur Sarkari Upkendra Sarkari Dawakhana - Shirapur		2	40,00,000
		Sub District Hospital, Pathardi		2	40,00,000
				6	1,20,00,000
4	Providing 50 Nos. of computers in nearby school/colleges, necessary furniture, projectors, Air conditioners for computer lab, science	Z.P. School, Shirapur	Computers, Air conditioners, science lab equipment	13	18,20,000
		Zilla Parishad Primary School, Pathardi		13	18,20,000
		Z.P. Primary School, Lokhandewadi		13	18,20,000
		Z.P. school, Ranjani		15	21,00,000

	lab equipment				
				54	75,60,000
	TOTAL AMOUNT Rs.				2,05,60,000

During deliberations, EAC discussed following issues:

- i. Action Taken Report has been submitted to IRO, MOEFCC, Nagpur dated 01.08.2023 for two partial compliances related to advertisement of EC issued in two newspapers and appointment of officials for Environment Management Cell. The committee desired to submit commitment that Industry shall not repeat the mistake of advertising EC only in one newspaper. PP shall submit ATR on appointment of officials for Environment Management Cell.
- ii. EAC noted that kml file uploaded on the parivesh portal is not functioning. The kml file circulated to EAC members was also not functioning. Accordingly, it was suggested that PP shall upload kml file in the desired format mentioned in Parivesh.
- iii. Stagnation of water was observed outside the premises during presentation. The Committee sought reasons for such stagnation of water.
- iv. PP shall submit revised air modelling study considering topographical consideration.
- v. PP shall submit revised list of activities of proposed in CER increasing the budgetary allocation to Rs. 2.00 Crores.
- vi. PP shall submit revised list of species proposed in green belt development.

PP has submitted the desired information vide letter dated 17.08.2023 for the points (iv), (v) and (vi). However, the the information w.r.t the rest of points (i), (ii) and (iii). Since, kml file is an essential information for assessing the site in DSS tool available on parivesh portal, PP has to upload correct kml file in the desired format mentioned on Parivesh portal. Therefore, the proposal is returned in present form.

Accordingly, the proposal is returned in present form.

Agenda No. 07

Proposed establishment of C or B Heavy Molasses / Cane Juice Syrup / Grain Based Distillery Having Capacity 200 KLD Along with Co-Gen Power: 7.0 MW at Village: Rani Nangal, Tehsil: Thakurdwara, District: Moradabad, Uttar Pradesh of M/s. Triveni Engineering & Industries Limited- Environmental Clearance- Consideration of Environmental Clearance.

[IA/UP/IND2/425871/2023, IA-J-11011/89/2021-IA-II(I)]

The proposal was considered in EAC Meeting ID: IA/IND2/13517/12/06/2023 held on 12th – 13th June, 2023, wherein committee recommended the proposal for grant of EC. While examining the proposal it was observed that UPPCB issued CTO compliance report for existing sugar unit as 5000 TCD whereas PP has mentioned capacity of existing sugar unit as 5500 TCD in EIA/EMP Report.

Further, PP has submitted ADS reply on 14.08.2023 informing that capacity of sugar unit is 5000 TCD and the UPPCB has inspected the sugar unit and confirmed the capacity of existing sugar unit as 5000 TCD with CTO compliance report. PP has also submitted addendum to EIA report.

It was also noted that, in the minutes of EAC meeting there was a typographical error regarding capacity of existing sugar unit. Therefore, the point 1 of deliberations of the proposal shall be read as "EAC noted that there is an existing sugar unit of 5000 TCD capacity of the same PP which is adjacent to the proposed distillery unit. PP has submitted certified CTO compliance for sugar unit vide letter dated 19.05.2023. PP informed that sugar unit was established prior to EIA notification, 2006. Therefore, EC was not applicable."

After detailed deliberations, EAC recommended the proposal for grant of environmental clearance, subject to compliance of terms and conditions as prescribed in minutes of EAC meeting held on 12th – 13th June, 2023.

Agenda No. 08

Establishment of 5000 TCD Sugar Plant, 30 MW Co-generation Plant and 423 KLPD Multi feed Distillery Unit by M/s. Siddhasiri Souhard Sahakari Niyamit. - Environmental Clearance- Consideration of Environmental Clearance.

[IA/KA/IND2/415098/2023, IA-J- 11011/64/20 12-IA-II(I)]

PP vide email dated 16.08.2023 requested to withdraw the instant stating that the same proposal seeking ToR under violation category vide proposal no. IA/KA/IND2/439296/2023. Committee suggested to return the proposal in present form.

Accordingly, the proposal is returned in present form.

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 Ramesh Rao Mungikar	Member
7.	Dr. Sanjay V. Patil	Member
8.	Dr. Seshagiri Rao Ambati (only one day 17.08.2023)	Member
9.	Shri A. N. Singh, Scientist 'E'	Member Secretary
MoEFCC		
10.	Dr. Mahendra Phulwaria	Scientist 'C'
11.	Mr. Kanaka Teja	Research Assistant
