

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

Dated: 28th July,2020

**MINUTES OF THE 21st MEETING OF THE EXPERT APPRAISAL COMMITTEE
(INDUSTRY-2 SECTOR FOR PETRO-CHEMICAL BASED PROJECTS),
HELD on 17th July, 2020**

Venue: Meeting conducted through Video Conferencing (VC) and moderated by the Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, JorBagh Road, New Delhi-110003.

Time: 10:30 AM

- (i) Opening Remarks by the Chairman:** The Chairman welcomed the Committee members and appreciated the effort of the Committee. After opening remarks, the EAC meeting was opened for further deliberations.
- (ii) Confirmation of the Minutes of the 20th Meeting of the EAC (Industry-2: Petro-Chemical Projects) held on 18th June, 2020 through VC.**

The EAC, having taken note that final minutes were issued after incorporating comments offered by the EAC members on the minutes of its 20th EAC meeting held on 18th June, 2020 conducted through Video Conferencing (VC) and confirmed the same.

After welcoming the Committee Members, discussion on each of the agenda items was taken up ad-seriatim.

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

17th July, 2020 (Friday)

Consideration of Environmental Clearance

Agenda No.21.1

Expansion of CPP in existing Carbon Black manufacturing unit by M/s Balkrishna Industries Limited at Block Survey No.470 & associated, Village Paddhar, Taluka Bhuj, District Kutch (Gujarat) - Consideration of Environment Clearance

[IA/GJ/IND2/150565/2020, J-11011/162/2017-IAII(I)]

The Project Proponent and their accredited Consultant M/s Wolkem India Ltd 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 CPP from 20 MW to 40 MW in existing Carbon Black manufacturing unit by M/s Balkrishna Industries Limited in an area of 1,212,560 sqm at Block Survey No.470 & associated, Village Paddhar, Taluka Bhuj, District Kutch (Gujarat).

The details of products and capacity as under:

S. No.	Particulars	Unit	Details			Impact
			Existing	Proposed	Total	
1	Tyre & Tube (Non-EC Product)	TPM	10000	5000	15000	Increase
2	CPP	MW	20	20	40	Expansion
3	Carbon Black [Product covered under 5(e) of EIA notification 2006]	TPM	11500	0	11500	No change

Standard ToR for the project was granted by the Ministry vide letter dated 20th December, 2019 followed by amendment in ToR on 19th March, 2020, providing exemption from public hearing.

The project/activity is covered under category B of items 1(d) "Thermal Power Plants" of the schedule to the Environment Impact Assessment (EIA) Notification, 2006, and requires appraisal at State level. However, as existing EC was granted by the Ministry for Petrochemical based processing under item 5(e), the proposal appraised at Central level in the Ministry.

Ministry had issued Environmental Clearance earlier vide letter No. F.No. J-11011/162/2017-IA II(I) dated 8th January, 2018 for carbon black manufacturing facility followed by amendment in EC on 20th May, 2019 in favour of M/s Balkrishna Industries Limited.

Existing land area is 1,212,560 sqm and proposed expansion will be done on the same land area only. Industry has already developed greenbelt in an area of 33 % i.e., 403727 sqm out of the total plot area of the project. The estimated existing project cost is Rs.3823 Crores, out of which the existing project cost of Tyre & Tube Plant is Rs.3,365 Crores, the existing project cost of Carbon Black Plant is Rs.287 Crore, the existing project cost of Power Plant is Rs.131 Crores and the existing cost of developing common facilities is Rs 40 crore. The proposed expansion will be Rs 25. Crores including existing investment of Rs.25 crores. Total capital cost earmarked

towards environmental pollution control measures is Rs.69.29 crores and the recurring cost (operation & maintenance) will be about Rs.152 Lacs/year. Total Employment will be 5050 persons as direct & 3000 persons indirect after expansion. Industry proposes to allocate Rs 25 lakhs @ 1% towards Corporate Environment Responsibility.

There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc within 10 km distance from the project site. Sang Nadi is the nearest waterbody flowing at a distance of 2.88 km in E direction.

Ambient air quality monitoring was carried out at eight locations during October 2019- December 2019 and the baseline data indicates the ranges of concentrations as: PM10 (57.54- 77.15 µg/m³), PM2.5 (25.83 - 34.64 µg/m³), SO₂ (7.39 - 9.91 µg/m³) and NO₂ (17.46 -23.42 µg/m³). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.500 µg/m³, 0.200 µg/m³ and 0.15 µg/m³ with respect to PM10, SO₂ and NO₂. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total water requirement as per earlier approved EC was 6600 m³/day, out of which fresh water requirement was 5500 m³/day being met from Gujarat Water Infrastructure Limited. The revised / reduced, at present total water requirement after implementation of water saving measures is 5085 m³/day. After expansion, the total water requirement will be 6860 m³/day, out of which fresh water requirement will remain the same i.e. 5500 m³/day and will be met from Gujarat Water Infrastructure Limited & Bore well (03 no.).

The EAC during deliberations noted that the project proponent has applied for expansion under para 7(ii) instead of expansion category. As the PP has prepared the EIA/EMP report for the instant proposal, the same should have been uploaded on the PARIVESH portal. The EAC also noted that this is a technical error done by the consultant while submitting the proposal on the Ministry's portal.

The Committee after detailed deliberations also desired for additional information/inputs in respect of the following:

- (i). Details of Pollution load involved in the expansion of CPP.*
- (ii). The EIA report need to be in cumulative format (existing and proposed activities).*
- (iii). Revised water balance with improvement in evaporation loss and commitment not to use ground water. Also submit plan for rain water harvesting and storage plan of the same.*
- (iv). Socio-economic status report of the study area.*
- (v). Detailed CER plan along with action plan for drinking water facility for the people.*
- (vi). Air dispersion formula to determine stack height*
- (vii). Detailed status of court case.*

The proposal was accordingly **RETURNED** in its present form.

Agenda No.21.2

Natural Gas Distribution network by PE pipeline by M/s Gujarat Gas Limited at Union Territory Dadara & Nagar Haveli - Consideration of Environment Clearance

[IA/DN/IND2/147592/2019, IA-J-11011/7/2019-IA-II(I)]

The project proponent and their accredited Consultant M/s Secon Pvt Ltd and M/s Green Circle Inc made a detailed presentation on the salient features of the project and informed that:

The proposal is for environmental clearance to the project for Natural Gas Distribution network by MDPE pipeline for length 27 km by M/s Gujarat Gas Limited at Union Territory Dadara & Nagar Haveli.

Standard ToR for the project was granted by the Ministry vide letter dated 8th February, 2019.

The project/activity is covered under category A of items 6(a) "Oil & gas transportation pipe line (crude and refinery/ petrochemical products), passing through national parks /sanctuaries/coral reefs /ecologically sensitive areas including LNG Terminal" of the schedule to the Environment Impact Assessment (EIA) Notification, 2006, and requires approval/appraisal at Central level in the Ministry.

Proposed pipeline project will not have any land acquisition on permanent bases, but proposed pipeline route is along the existing road RoW under PWD authority and 8029.8 m² land will be used on the basis Right of Use temporarily limited up to laying of pipeline. The estimated Total Capital cost is ₹ 4.15 Crores which includes environmental pollution control measures cost of ₹ 0.043 Crores and total project cost of ₹ 4.193 Crores. Total Employment potential would be around 40 persons.

Proposed pipeline route passes through DNH Wild life sanctuary as follow:

Name of Pipeline	Length in ESZ (km)	Length in WLS(km)
Dapada to Khanvel (13.6518km)	1.7114	1.8956
Khanvel to Kherdi (7.296km)	0.2449	0.8700
Surangi to Kherdi (5.819km)	1.0738	0.4390
Total length 26.766(Say 27km)	Total 3.0301	Total 3.2046

The project proponent has also informed that the Stage-1 and Stage-2 Forest clearance for diversion of 0.7608 Ha protected forest land has been obtained vide letter dated 18th July, 2019 and 7th January, 2020. The Project proponent has also confirmed that the application for wildlife clearance has also submitted.

Ambient air quality monitoring was carried out at 8 locations during 01 Mar 2019 To 31 May 2019 and the baseline data indicates the ranges of concentrations as: PM10 (27.3 to 23.3µg/m³), PM2.5 (22.4 to 11.7 µg/m³), SO₂ (10.3 to 8.8 µg/m³) and NO₂ (22.4 to 11.7 µg/m³). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.20µg/m³, 0.51 µg/m³ and 0.45µg/m³ with respect to PM10, SO_x and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Requirement of water will be for various activity during construction phase of pipeline is as given below which will be met by tanker supply from nearby municipal source.

S. No	Activity	Water consumption in liters
1	PE laying by HDD Method	112000
2	Watering & compaction of the Trench	108000
3	Water consumption for domestic use	31200
	Total	251200

No water will be required during operational phase.

Temporary 3KVA DG set will be required for electro fusion welding during only construction phase of laying of pipeline. No stationery/permanent DG sets required on pipeline during operational phase.

Public Hearing for the proposed project was conducted by the Pollution Control Committee, Dadra Nagar Haveli on 18th February, 2020, which was presided over by the Resident Deputy Collector.

The EAC examined the proposal submitted by the Project Proponent in desired form along with 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 EIA/EMP 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 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 and incremental GLC due to the proposed project within NAAQ standards. The Committee has also deliberated on the CER plan and found to be addressing the issues in the study area and public hearing issues.

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 subject to compliance of terms and conditions as under, and general terms of conditions: -

- (i) The environmental clearance is subject to obtaining prior clearance from the wildlife angle, including clearance from the Standing Committee of the National Board for Wildlife, as applicable, as per the Ministry's OM dated 8th August, 2019. Grant of environmental clearance does not necessarily imply that Wildlife Clearance shall be granted to the project and that their proposal for Wildlife Clearance will be considered by the respective authorities on its merit and decision taken.
- (ii) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
- (iii) 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.
- (iv) 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.
- (v) 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.
- (vi) 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.

(vii) The PP shall follow horizontal drilling technique for laying of pipeline while passing through major rivers.

(viii) The project authorities shall install SCADA/GPS system with dedicated optical fiber based telecommunication link for safe operation of pipeline and Leak Detection System. Additional sectionalizing valves in the residential areas and sensitive location shall be provided to prevent the leaking of gas going to the atmosphere in the event of pipeline failure. Intelligent pigging facility shall be provided for the entire pipeline system for internal corrosion monitoring. Coating and impressed current cathodic protection system shall be provided to prevent external corrosion.

(ix) 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.

(x) 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. It is necessary that integrated DMP should be in place as the pipeline is passing through four Districts.

(xi) The acoustic chambers/barriers should be provided for individual units wherever feasible in the compressor stations.

(xii) The workers camp should have arrangement for safe drinking water, hygienic kitchen and sanitation facilities. The wastewater should be properly treated before disposal.

(xiii) The company shall obtain all requisite clearances for fire safety and explosives and shall comply with the stipulation made by the respective authorities.

(xiv) *As committed 2% of total project cost shall be allocated for Corporate Environment Responsibility (CER) shall be utilized for meeting the commitment of the issues of public hearing. The CER plan shall be completed before commissioning or expansion of the project.*

Reconsideration for Environmental Clearance

Agenda No. 21.3

Expansion of Offshore and Onshore Oil and Gas Exploration, Development & Production in existing Ravva Field, PKGM-1 Block (of 331.26 km²) located near Surasniyanam Village (S. Yanam) in Krishna-Godavari by M/s Vedanta Limited (Division Cairn Oil & Gas)-Consideration of Environmental & CRZ Clearance

[IA/AP/IND2/102271/2013, J-11011/41/2018-IA-II (I)]

The proposal was earlier considered by the 11th meeting of EAC (Industry-2) held from 28-29 August, 2019 and 15th Meeting of EAC (Industry-2) held from 30th December 2019 to 1st January 2020 for Environmental & CRZ Clearance of the above mentioned Project.

S. N .	Information Desired by the EAC	Response from Vedanta Limited (Cairn Oil & Gas) per Letter no. CIL/GGN/MOEF/19/11/01 dated Nov 20, 2019	Remarks of the EAC [As per Minutes of 15 th meeting of EAC-(Ind-2) of MoEFCC]	Response from Vedanta Limited (Cairn Oil & Gas)
1	Project proponent to provide approval of DGH to the MoEFCC for the five onshore drilling wells which are located outside the PKGM-1 Block and belong to ONGC.	Vedanta Limited (Cairn Oil & Gas) will extract hydrocarbon resources only from the allocated PKGM-1 Block (within the Block boundary). All the potential hydrocarbons bearing sands intersected from onshore well pads profile are located in shallow water depths within the block where rig mobilization offshore is difficult. Thus, it is proposed to carry out drilling from onshore engage through onshore drilling from adjacent land area, which falls outside the block. Before	Information provided is not addressing the concerns raised by the EAC. PP has failed to provide the information. The Project proponent need to provide approval of DGH for the five onshore drilling wells which are located outside the PKGM-1	Vedanta Limited (Cairn Oil & Gas) on behalf of the Ravva JV has decided to drop development of onshore five well pads (Well Pads # 1 to 5) proposed to be located outside the PKGM-1 Block. Drilling of onshore wells 33 nos. (11 exploratory + 23 developmental) will be done only from the two onshore well pads [numbered as WP-7 (or RX-8) and WP-8 (or RX-9)] located within the

S. N .	Information Desired by the EAC	Response from Vedanta Limited (Cairn Oil & Gas) per Letter no. CIL/GGN/MOEF/19/11/01 dated Nov 20, 2019	Remarks of the EAC [As per Minutes of 15 th meeting of EAC-(Ind-2) of MoEFCC]	Response from Vedanta Limited (Cairn Oil & Gas)
		<p>commencement of drilling, Vedanta Limited (Cairn Oil & Gas) will obtain due approval from DGH and ONGC. This commitment was included in the affidavit submitted to MoEFCC with covering letter no. CIL/GGN/MOEF /19/9/01 dated 09 Sep 2019. Affidavit has been submitted through covering letter dated 09 September 2019.</p>	<p>Block and belong to ONGC.</p>	<p>PKGM-1 Block. No activities including drilling will be carried outside the PKGM-1 Block area.</p> <p>There is no change in the proposal related to drilling of 90 offshore wells (73 exploratory + 17 developmental wells) from within the block. Thus, total number wells to be drilled will be 123 (33 from onshore + 90 from offshore) within PKGM-1 Block. No drilling will be carried outside the PKGM-1 Block area.</p>
2	<p>The proposal requires CRZ approval from the MOEFCC as the on land wells are located between 200-500 meters from the Coastline. However, the PP has approval of</p>	<p>Vedanta Limited (Cairn Oil & Gas) is seeking Environmental and CRZ Clearances from MoEFCC for the proposed expansion Project.</p> <p>APCZMA recommended the Project through their No Objection Certificate Letter no.138/APCZMA/CRZ/IND / 2019-91 dated 03-04-</p>	<p>The project proponent needs to submit the copy of NOC and communication addressed to the Ministry by the APCZMA. In addition, conditions imposed and plan for achieving the same shall be submitted.</p>	<p>Copy of NOC and communication addressed to the Ministry by APCZMA is enclosed.</p> <p>In addition, conditions imposed and plan for achieving the same is submitted</p> <p>The same has also been included in the Environment</p>

S. N .	Information Desired by the EAC	Response from Vedanta Limited (Cairn Oil & Gas) per Letter no. CIL/GGN/MOEF/19/11/01 dated Nov 20, 2019	Remarks of the EAC [As per Minutes of 15 th meeting of EAC-(Ind-2) of MoEFCC]	Response from Vedanta Limited (Cairn Oil & Gas)
	State authorities.	2019 received on 06-05 2019. Copy of the APZMA approval is submitted.	The Committee also suggested that the comments of CRZ Sector also needs to be obtained.	Management Plan (Table 9.4) of the updated EIA report.
3	Copy of Coast Guard approved Oil Spill Contingency Plan with available trained manpower and equipment shall be submitted to the ministry.	Oil Spill Contingency Response plan (OSRP) has been prepared as per the National Oil Spill Disaster Control Plan (NOSDCP) Guidelines issued by the Indian Coast Guard (ICG). The Plan was reviewed by the Indian Coast Guard (ICG) and all the comments of the Indian Coast Guard (ICG) were incorporated in the revised OSRP and submitted back to ICG. The final approval is awaited. Copy of the acknowledgement letter dated 22 May 2019 for final approval of OSRP (submitted to the Assistant Commandant Indian Coast Guard, Kakinada), together with oil spill response equipment and trained manpower is submitted.	Copy of Oil Spill Contingency Plan which is submitted to Indian Coast Guard shall be submitted along with agreement of copy of International Oil Spill Response Service Provider as desired by the EAC for perusal.	Copy of Oil Spill Contingency Plan submitted to the Indian Coast Guard is enclosed. Copy of the agreement with International Oil Spill Response Service Provider is included. The same is also included as Annex 24 of the Revised EIA report (Volume 2).
4	Chapter Environment Management	Environmental Management Plan is updated by including a	The project proponent shall	Vedanta Limited (Cairn Oil & Gas) is committed to comply with the EMP

S. N .	Information Desired by the EAC	Response from Vedanta Limited (Cairn Oil & Gas) per Letter no. CIL/GGN/MOEF/19/11/01 dated Nov 20, 2019	Remarks of the EAC [As per Minutes of 15 th meeting of EAC-(Ind-2) of MoEFCC]	Response from Vedanta Limited (Cairn Oil & Gas)
	Plan has no integration of data generated in Chapter-3 i.e. from baseline; Description of Environment' , for decision making. This shall be revised based on studies conducted for the purpose.	column in Table 9.1 on baseline covered under Chapter 3 (i.e. Description of Environment). The updated EMP also includes reference to public hearing issues raised and related response. Copy of the Updated EIA (Volume 1) including revised EMP is submitted.	ensure complying with EMP. The Committee noted that the Consultant/PP needs to read the documents before uploading on the Parivesh Portal.	mentioned as part of the EIA report. M/s ERM India Pvt Ltd is the Consultant for this project. And ERM has reviewed all the documents and followed the instructions regarding uploading of the documents on Parivesh Portal.
5	Treatment and disposal of Additional produced water generated not mentioned in EIA. Treatment and disposal do not depend on assumptions.	EIA report covers treatment of produced water in the existing Produced Water Re-injection (PWRI) Treatment system as described in Sections 2.4.1, 4.49 & 4.6.3. Schematic of produced water treatment is given in Figures 2.8 & 2.9 of Section 2.4.1 of the EIA report. Section 2.4.1.11 of the EIA describes existing API Separator and Effluent Treatment Plant (of 3,000 m ³ /day capacity). At higher water cut conditions also,	Commitment towards ZLD needs to be submitted. Effluent treatment plan to be revised separately for onshore and offshore.	Commitment towards Zero Liquid Discharge and documents related to onshore and offshore effluent treatment is included. The same is also included in the updated Section 2.12.1 of EIA report (Volume 1).

S. N .	Information Desired by the EAC	Response from Vedanta Limited (Cairn Oil & Gas) per Letter no. CIL/GGN/MOEF/19/11/01 dated Nov 20, 2019	Remarks of the EAC [As per Minutes of 15 th meeting of EAC-(Ind-2) of MoEFCC]	Response from Vedanta Limited (Cairn Oil & Gas)
		<p>the effluent generation will remain well within the existing ETP operating capacity of 3000 m³/day. The wastewater is treated and discharged into the sea through a submerged sub-sea pipeline and through a pipe diffuser system. The outfall is located 540 m from the shore at 5 m water depth. The treated produced water from PWRI Treatment system will continue to be injected into the confined hydrocarbon reservoir after comingling it with ground water to fill up the void created due to hydrocarbon extraction and maintain reservoir pressure. Refer to Section 24.1.11 of the Updated EIA (Volume 1) with additional information on produced water generation including revised EMP. Also, refer to Annexure 5 for standalone information on produced water generation and effluent treatment.</p>		
6	On page 229 of EIA the values of Sulphur	Sulphur content in HSD BS-IV grade is 50 ppm by wt. However, for air dispersion modelling the	The justifications found to be satisfactory.	No action required.

S. N .	Information Desired by the EAC	Response from Vedanta Limited (Cairn Oil & Gas) per Letter no. CIL/GGN/MOEF/19/11/01 dated Nov 20, 2019	Remarks of the EAC [As per Minutes of 15 th meeting of EAC-(Ind-2) of MoEFCC]	Response from Vedanta Limited (Cairn Oil & Gas)
	present in HSD has been reported 0.1%, need to be checked.	Sulphur content of 0.1% was considered, which is higher value than the actual Sulphur content present in the diesel. The ground level concentrations for emission of SO ₂ with 0.1% Sulphur content in diesel remained well within the prescribed standards as against the HSD BS IV grade limit of 50 ppm (i.e. 0.005%) by wt.		
7	Public hearing issues discussed by the EAC at length. Unless these serious issues are addressed by the project proponent, the EAC cannot recommend the project for grant of EC. There are serious allegations about the project	Issues raised during Public Hearing and related responses are given in Annexure 6. Vedanta Limited (Cairn Oil & Gas) will also submit six monthly compliance status of implementation of actions identified in response to issues raised during the public hearing. Vedanta Limited (Cairn Oil & Gas) has submitted an affidavit dated 25 October 2018 to the State Government of Andhra Pradesh acting through Joint Collector, East Godavari District (refer to Annexure 2), addressing key issues raised during the public hearing as well as	Public hearing issues, commitment, action plan along with budgetary provisions to be resubmitted incorporating the suggestions of the EAC.	Vedanta Limited (Cairn Oil & Gas) is committed to spend INR 20 Crores for next 10 years exclusively towards CER activities and address the concerns raised during the Public Hearing. Public hearing points, commitment, action plan with time and budgetary provisions is being resubmitted This is also included in Table 9.3 of the Environment

S. N .	Information Desired by the EAC	Response from Vedanta Limited (Cairn Oil & Gas) per Letter no. CIL/GGN/MOEF/19/11/01 dated Nov 20, 2019	Remarks of the EAC [As per Minutes of 15 th meeting of EAC-(Ind-2) of MoEFCC]	Response from Vedanta Limited (Cairn Oil & Gas)
	proponent's functioning as per the recorded minutes of the PH meeting, for example non fulfilment of earlier commitment, pollution issues, drinking water, compensation, sludge and oily waste discharge into sea and reduction in yield of fishes, prawn including other sea food etc.	commitment of annual contribution of INR 6.0 Crores towards CSR and CER initiatives. This amount will be annually deposited with office of District Collector, East Godavari District, Andhra Pradesh towards implementing community development works/projects. This fund will be utilized by district administration for improving livelihood of the people residing in S. Yanam and surrounding villages. The amount to be spent and need of each program will be decided by the district administration based on the needs of the local community.		Management Plan of the updated EIA report.
8	Item wise details of the budget allocated for Corporate Environment Responsibility (CER) need to be	In compliance with the requirements included in the MoEFCC office memorandum dated 1 May 2018 on Corporate Environment Responsibility, Vedanta Limited (Cairn Oil & Gas) on behalf of Ravva Joint	As proposed in the meeting, CER plan to be revised with Rs. 20 crore budget allocation along with detailed activities	Vedanta Limited (Cairn Oil & Gas) is committed to spend INR 20 Crores for next 10 years exclusively towards CER activities and address the concerns raised during the Public Hearing.

S. N .	Information Desired by the EAC	Response from Vedanta Limited (Cairn Oil & Gas) per Letter no. CIL/GGN/MOEF/19/11/01 dated Nov 20, 2019	Remarks of the EAC [As per Minutes of 15 th meeting of EAC-(Ind-2) of MoEFCC]	Response from Vedanta Limited (Cairn Oil & Gas)
	submitted for next five years.	Venture is committed to contribute every year INR 6.0 Crores towards implementing the CSR and CER projects as per affidavit dated 25 October 2018 submitted to the State Government of Andhra Pradesh acting through Joint Collector, East Godavari District (refer to Annexure 2). The amount of INR 6.0 Crores per annum (i.e. ~INR 30 Crores in five years) works out to be more than INR 19.1 Crores i.e. 0.25% of the investment proposed (of INR 7,640 Crores). This amount will be annually deposited with office of District Collector, East Godavari District, Andhra Pradesh towards implementing community development works/projects. This fund will be utilized by district administration for improving livelihood of the people residing in S. Yanam and surrounding villages. The amount to be spent and need of each program will be decided by	proposed to be carried out.	<p>Commitments including on budget allocation for CER activities is included .</p> <p>Actions on CER are included in Table 9.5 of the Environment Management Plan of the updated EIA report (Volume 1).</p>

S. N .	Information Desired by the EAC	Response from Vedanta Limited (Cairn Oil & Gas) per Letter no. CIL/GGN/MOEF/19/11/01 dated Nov 20, 2019	Remarks of the EAC [As per Minutes of 15 th meeting of EAC-(Ind-2) of MoEFCC]	Response from Vedanta Limited (Cairn Oil & Gas)
		<p>the district administration based on the needs of the local community. The fund will be utilized by the administration towards implementing the following programs/initiatives:</p> <p>a) Drinking water: Setting of potable water system</p> <p>b) Infrastructure: Construction of roads, bridges/culverts, developing the parks with walking tracks, installation of the solar lights etc.</p> <p>c) Health: Supporting district medical department for effective operation and maintenance of the public health centre</p> <p>d) Solid waste and Sanitation: Provision of supporting the "Swatch Bharat" initiative for the effective waste management</p> <p>e) Education: Supporting the Government schools and Anganwadis towards improving the educational standards by supporting additional teachers, establishment of libraries,</p>		

S. N .	Information Desired by the EAC	Response from Vedanta Limited (Cairn Oil & Gas) per Letter no. CIL/GGN/MOEF/19/11/01 dated Nov 20, 2019	Remarks of the EAC [As per Minutes of 15 th meeting of EAC-(Ind-2) of MoEFCC]	Response from Vedanta Limited (Cairn Oil & Gas)
		<p>providing bus passes for the students, providing scholarships to the meritorious students etc.</p> <p>f) Sports: Supporting physical education in schools and youth such as providing sports kits, creating play area for the basketball, volleyball and cricket.</p> <p>g) Skill development of the youth: By developing IT training centres in the villages by providing computers and organizing training programs</p> <p>h) Natural Resource Management (NRM): Development of NRM related projects in the villages through plantation of the native species for increasing the green cover, providing fruit bearing saplings to the local villagers etc.</p> <p>i) Financial support: Financial support shall be provided to the villagers such as pension for widows and physically disabled persons. The amount to be</p>		

S. N .	Information Desired by the EAC	Response from Vedanta Limited (Cairn Oil & Gas) per Letter no. CIL/GGN/MOEF/19/11/01 dated Nov 20, 2019	Remarks of the EAC [As per Minutes of 15 th meeting of EAC-(Ind-2) of MoEFCC]	Response from Vedanta Limited (Cairn Oil & Gas)
		<p>paid will be decided by ROO.</p> <p>j) Need based assessment study: Carry out a need based (social) assessment study in the S.Yanam and the surrounding villages through Smart Andhra Pradesh Foundation or through any reputed institutions. The outcome of the study will be discussed with the district administration and financial support will be focused on the study outcome related program. As guided in the OM on CER dated 1 May 2018, the District Collector may add or delete the activities as per the requirements of the district.</p>		
9	The project proponent is directed to submit an affidavit on each issue raised by the public and also on suggestions of ADM toward	Vedanta Limited has already submitted the following affidavits 1) Affidavit dated October 25, 2018 submitted to the State Government of Andhra Pradesh acting through Joint Collector, East Godavari District (refer to Annexure 2) addressing key issues raised during the public	Action plan for CER to be revised.	Refer to Annexure 7 on commitments and action plan including on budget allocation for various CER activities to be undertaken. This is also included in Table 9.3 of the Environment Management Plan of the

S. N .	Information Desired by the EAC	Response from Vedanta Limited (Cairn Oil & Gas) per Letter no. CIL/GGN/MOEF/19/11/01 dated Nov 20, 2019	Remarks of the EAC [As per Minutes of 15 th meeting of EAC-(Ind-2) of MoEFCC]	Response from Vedanta Limited (Cairn Oil & Gas)
	<p>compliance of these issues with budget and time frame. The EMP which is given in EIA do not have mention of anything about compliances of the public hearing issues. Therefore, the proposal in present form shall not be recommended for EC and is deferred till submission of above.</p>	<p>hearing as well as commitment of annual contribution of INR 6.0 Crores towards CSR and CER initiatives; and 2) Affidavit with covering letter dated September 09, 2019 submitted to MoEFCC mentioning the commitment towards community initiative programs, no forestland involved for the Project, obtain of necessary approvals before start of any activity outside the block area, carry out of process safety and risk assessment study using 3D modelling and addressing the public hearing issues in consultation with the district administration (refer to Annexure 1). Item wise response to Public Hearing issues raised are included in the revised EMP (Section 9) of the Updated EIA as enclosed. Also refer to Annexure 6 for details.</p>		<p>Revised EIA report (Volume 1).</p>
Additional Clarification/Inputs				
i)			Revised Form 2 to be submitted vis-à-vis the	Revised Form 2 in Annexure 8 vis-à-vis the updated EIA report (after

S. N .	Information Desired by the EAC	Response from Vedanta Limited (Cairn Oil & Gas) per Letter no. CIL/GGN/MOEF/19/11/01 dated Nov 20, 2019	Remarks of the EAC [As per Minutes of 15 th meeting of EAC-(Ind-2) of MoEFCC]	Response from Vedanta Limited (Cairn Oil & Gas)
			updated EIA report.	dropping of onshore five well pads outside PKGM-1 Block) is submitted.
ii)			Details of project block, separately for onshore and offshore along with proposed drilling locations. Details of wells proposed to be dropped from the scope of the work.	Details of project block, separately for onshore and offshore along with proposed drilling locations together with information on five onshore well pads dropped from the scope of work is enclosed as Annexure 5 .
iii)			The Project proponent either need to provide an approval of DGH for the five onshore drilling wells which are located outside the PKGM-1 Block and belong to ONGC or surrender these wells by an undertaking.	As the process of obtaining approval of DGH for development of well pads outside the PKGM-1 Block is taking time, therefore, Vedanta Limited (Cairn Oil & Gas) on behalf of the Ravva JV has decided to drop development of five onshore well pads (Well Pads # 1 to 5) proposed to be located outside the PKGM-1 Block. No drilling of wells will be carried outside the PKGM-1 Block area. The development of five well pads that were located

S. N .	Information Desired by the EAC	Response from Vedanta Limited (Cairn Oil & Gas) per Letter no. CIL/GGN/MOEF/19/11/01 dated Nov 20, 2019	Remarks of the EAC [As per Minutes of 15 th meeting of EAC-(Ind-2) of MoEFCC]	Response from Vedanta Limited (Cairn Oil & Gas)
				outside in the ONGC Block area proposed as part of the EIA study will not carried out further.
iv			The project proponent needs to submit the copy of NOC and communication addressed to the Ministry by the APCZMA. In addition, conditions imposed and plan for achieving the same shall be submitted. The comments of CRZ needs to be obtained by the Sector	Copy of NOC and communication addressed to the Ministry by APCZMA is enclosed. In addition, conditions imposed and plan for achieving the same is submitted The same has been also been included in the Environment Management Plan (Table 9.4) of the Revised EIA report (Volume 1).
v)			Copy of marine EIA report, maps and other documents submitted for CRZ recommendation to be provided.	The EIA Report for Expansion of Offshore & Onshore Oil & Gas Exploration, Development & Production in existing Ravva Field, PKGM-1 Block covered both terrestrial and marine components and was submitted to APCZMA during the process of

S. N .	Information Desired by the EAC	Response from Vedanta Limited (Cairn Oil & Gas) per Letter no. CIL/GGN/MOEF/19/11/01 dated Nov 20, 2019	Remarks of the EAC [As per Minutes of 15 th meeting of EAC- (Ind-2) of MoEFCC]	Response from Vedanta Limited (Cairn Oil & Gas)
				<p>issuance of NOC from APCZMA.</p> <p>The EIA study covers both onshore and offshore (marine) components as following:</p> <ul style="list-style-type: none"> ▪ Onshore Baseline in Sections 3.3 to 3.11 while marine baseline is covered in Sections 3.13, 3.14 & Annex 1 on as detailed marine baseline done by Andhra University in Volume 2 of the EIA study. ▪ Impact Assessment for onshore component is covered in Section 4.4 while for offshore component in Section 4.5 ▪ Risk Assessment for onshore component is covered in Sec 7.2.1 while for offshore component in Sec 7.2, 7.3 & 7.4. ▪ EMP for onshore and offshore activities is also separately covered in Tables 9.1, 9.2

S. N .	Information Desired by the EAC	Response from Vedanta Limited (Cairn Oil & Gas) per Letter no. CIL/GGN/MOEF/19/11/01 dated Nov 20, 2019	Remarks of the EAC [As per Minutes of 15 th meeting of EAC-(Ind-2) of MoEFCC]	Response from Vedanta Limited (Cairn Oil & Gas)
				The Revised EIA report (volume 1) after dropping of development of onshore five well pads proposed to be located outside the PKGM-1 Block is being submitted.
vi)			Copy of Oil Spill Contingency Plan which is submitted to Indian Coast Guard shall be submitted along with agreement of copy of International Oil Spill Response Service Provider as desired by the EAC for perusal.	Copy of Oil Spill Contingency Plan submitted to the Indian Coast Guard is enclosed. Copy of the agreement with International Oil Spill Response Service Provider is included. The same is also included as Annex 24 of the Revised EIA Report (Volume 2)
vii)			Commitment towards ZLD needs to be submitted. Effluent treatment plan to be revised separately for onshore and offshore.	Commitment towards Zero Liquid Discharge and documents related to onshore and offshore effluent treatment is included. The same is also included in the Section 2.12.1 of the Revised EIA report (Volume 1).

S. N .	Information Desired by the EAC	Response from Vedanta Limited (Cairn Oil & Gas) per Letter no. CIL/GGN/MOEF/19/11/01 dated Nov 20, 2019	Remarks of the EAC [As per Minutes of 15 th meeting of EAC-(Ind-2) of MoEFCC]	Response from Vedanta Limited (Cairn Oil & Gas)
viii)			AAQ data and GLC due to the project needs to be revisited.	AAQ data and GLC due to the Project activities has been revisited and updated results are included in Section 4.4.4 and Section 4.5.1 of the updated EIA Report.
ix)			Certified compliance report of the existing EC from the Regional Office of the Ministry/ Communication, if any, from Regional Office regarding compliance.	<p>Vedanta Limited (Cairn Oil & Gas) approached MoEFCC, Chennai Regional Office on 10 April 2018 requesting to carry out verification of EC compliance report referring to the EIA TOR document. MoEFCC Regional Officer visited Ravva Terminal for EC compliance verification on 07 June 2018, however no report was issued. Subsequently, Vedanta followed up and submitted request letter on 01 October 2018. After that also no report was issued.</p> <p>Thereafter, Vedanta Limited approached APPCB Member Secretary on 07 December 2018 referring to the MoEFCC Circular</p>

S. N .	Information Desired by the EAC	Response from Vedanta Limited (Cairn Oil & Gas) per Letter no. CIL/GGN/MOEF/19/11/01 dated Nov 20, 2019	Remarks of the EAC [As per Minutes of 15 th meeting of EAC- (Ind-2) of MoEFCC]	Response from Vedanta Limited (Cairn Oil & Gas)
				<p>dated 07 September 2017, which states "Regional Offices of the Ministry are requested to submit certified compliance report within one month of receipt of such requests from the Member Secretary of the sectoral EAC. In case the inspection is not carried out within one month, the certified compliance report from the concerned Regional Offices of Central Pollution Control Board (CPCB) or the Member Secretaries of the respective State Pollution Control Boards shall also be accepted for deliberations by the sectoral EAC." Referring to the MoEFCC Circular, Vedanta's requested APPCB Member Secretary and accordingly, the APPCB Member Secretary advised APPCB Regional Officer (Kakinada) to conduct the site visit and submit the report. APPCB Regional Officer conducted site visit for the</p>

S. N .	Information Desired by the EAC	Response from Vedanta Limited (Cairn Oil & Gas) per Letter no. CIL/GGN/MOEF/19/11/01 dated Nov 20, 2019	Remarks of the EAC [As per Minutes of 15 th meeting of EAC-(Ind-2) of MoEFCC]	Response from Vedanta Limited (Cairn Oil & Gas)
				EC compliance verification on 28 December 2018 and 18 January 2019 and issued the EC compliance report on 31 January 2019. Copy of compliance status of EC conditions certified by APPCB is included as Annexure 6 .
x)			Public hearing issues, commitment, action plan with time and budgetary provisions to be resubmitted incorporating the suggestions of the EAC.	Public hearing issues, commitment, action plan with time and budgetary provisions is being resubmitted. This is also included in Table 9.3 of the Environment Management Plan of the Revised EIA (Volume 1) being submitted to MoEFCC.
xi			As proposed in the meeting, CER plan to be revised with Rs. 20 crore budget allocation.	Vedanta Limited (Cairn Oil & Gas) is committed to spend INR 20 Crores for next 10 years exclusively towards CER activities and address the concerns raised during the Public Hearing.

S. N .	Information Desired by the EAC	Response from Vedanta Limited (Cairn Oil & Gas) per Letter no. CIL/GGN/MOEF/19/11/01 dated Nov 20, 2019	Remarks of the EAC [As per Minutes of 15 th meeting of EAC-(Ind-2) of MoEFCC]	Response from Vedanta Limited (Cairn Oil & Gas)
				Refer to Annexure 7 on the commitments including on budget allocation for CER activities.

The Project Proponent and the accredited Consultant M/s ERM India Private Limited made a detailed presentation on the salient features of the project and informed that:

The proposal is for Environmental and CRZ Clearance to the project for Expansion of Offshore and Onshore Oil and Gas Exploration, Development & Production in Ravva Field, PKGM-1 Block (of 331.26 km²) located near Surasaniyanam Village (S. Yanam) in Krishna-Godavari Basin, East Godavari District, Andhra Pradesh by M/s Vedanta Limited (Cairn Oil & Gas Division).

There shall be drilling of a total of 123 exploratory and development wells covering 83 nos. exploratory wells and 40 nos. development (production) wells. Of the 83 exploratory wells, 59 are proposed to be drilled from standalone offshore locations, 14 nos. from existing offshore platforms and 10 nos. from two onshore well pads to assess presence of hydrocarbons in prospects identified. Of the 40 development (production) wells, 17 will be drilled from the existing offshore platforms and 23 nos. from onshore well pads. The project also includes establishing of two onshore well pads numbered as WP-7 (RX-8) and WP-8 (RX-9); and laying of ~8 km of pipeline corridor (for three pipelines) connecting onshore well pads with the existing onshore oil & gas processing Ravva Terminal.

Standard Terms of References (ToRs) was issued by the Ministry vide letter dated 24th March 2018.

The project/activity is covered under category A of item 1(b) 'Offshore and onshore oil and gas development & production' of schedule to the Environment Impact Assessment (EIA) Notification, 2006, and requires appraisal at central level by sectoral Expert Appraisal Committee in the Ministry.

Existing land area is about 235 acres, additional land of about 49 acres (~20

ha) consisting of two onshore well pads (well pads WP-7 & WP-8) and 8 km long pipeline corridor (of 15 m width) will be used for proposed expansion under Right of Usage. Industry has already developed greenbelt more than 35% i.e., 83 Acres of total area.

The estimated project cost is Rs. 7,924 Crores (to be spent in 10 years) and existing cumulative investment is Rs. 10,460 crores. Total capital cost earmarked towards environmental pollution control measures is approximately Rs. 400 Crores and the Recurring cost (operation and maintenance) will be about Rs. 1.37 Crores per annum.

Total direct employment exists for ~550 persons and indirect employment to ~100 for expansion (during drilling of wells & related work).

There are no National parks, Wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wild life Corridors etc. within 10 km distance from the project site. The PKGM-1 Block area lies mostly offshore from the Godavari Delta. Estuary of Vrudha Gautami River and Nilarevu River are located at ~17.3 km and ~20 km respectively northeast from the existing offshore RB Platform in PKGM-1 Block

Ambient air quality monitoring was carried out at 8 locations during January to March 2018 and the baseline data indicates the ranges of concentrations as: PM₁₀ (43.6 to 56.3 µg/m³), PM_{2.5} (18.4 to 25.7 µg/m³), SO₂ (8.7 to 14.8 µg/m³) and NO₂ (10.5 to 16.7 µg/m³). AAQ modeling study for point source emissions for onshore drilling activity indicates that the maximum incremental GLCs from the proposed project would be 0.35 µg/m³, 0.02 µg/ m³ and 4.5 µg/ m³ with respect to PM₁₀, S O₂ and NOx. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

The total water requirement is 18,285 m³/day (including 10,413 m³/day existing approved by APWALTA of saline groundwater abstraction from deep bore wells + proposed maximum 7,872 m³/day saline groundwater abstraction from deep bore wells) of which no fresh water will be required. The entire water requirement will be sourced through ground water abstraction from the saline bore wells after obtaining necessary permission from APWALTA. For drilling of wells, water requirement is 60 m³/day (for onshore drilling of a well for ~50 days per well sourcing water from existing RO Plant at Ravva Terminal) and 85 m³/day (for offshore drilling of a well for 50 days per well sourcing 40 m³/day from nearby port and 45 m³/day from sea).

For onshore drilling of a well, effluent of 5 m³/day/well and domestic wastewater of 4.5 m³/day will be treated in skid mounted modular ETP and STP respectively at drilling site followed by treatment in ETP at Ravva Terminal and STP at Living Quarters. For offshore drilling, onboard domestic wastewater generation is expected to be 30 m³/day, which will be treated onboard STP and bilge and wash wastewater of 5 m³/day will be treated oil-in-water separator before offshore discharge complying with MARPOL 73/78 standards of 15 mg/L of oil in water content.

For drilling of an onshore well, power requirement will be met through diesel generators of 1,000 kVA capacity (1 working + 1 standby) and 350 kVA capacity

(1 working + 1 standby) installed onboard the onshore rig at a well pad and the one diesel generator of 350 kVA catering to the power requirement at the campsite. For the offshore drilling, power requirement will be met through diesel generators of 2,000 kVA (2 working + 1 standby) and one no of 250 kVA capacity installed onboard the rig. Existing power requirement at Ravva Terminal is 10 MW, which is met through 2.5 MW x 4 nos. gas turbines and no additional power is required.

There is no boiler existing and no boilers proposed by the project proponent.

Details of Process emissions generation and its management: From both onshore and offshore drilling, point source air emissions will be generated from diesel generators and temporary test flares during drilling of a well. During initial period of operation phase, in case of emergency, there will be elevated flaring from a well pad. The emissions will be controlled through adequate stack height as per CPCB criteria. No change in emissions from existing operations at Ravva Terminal.

Details of Solid waste/ Hazardous waste generation and its management: Solid waste to be generated from onshore and offshore drilling activities will include hazardous and non-hazardous wastes, which are further classified as recyclable and non-recyclable waste. All the wastes will be segregated at the source of generation and disposed in the legally acceptable manner. All recyclable hazardous wastes such as used oil, waste oil, used containers etc., and recyclable non-hazardous waste such as metals and non-metals (paper, cardboard, wood, plastic etc.) will be disposed to the authorized recyclers. The major waste anticipated due to drilling of wells include spent drilling mud and drill cuttings. These wastes are stored, handled and disposed as per the requirements of the applicable Indian regulation, and APPCB. The domestic waste from onshore campsite will be composted in-house and will be used as manure.

Public Hearing for the proposed project was conducted by the Andhra Pradesh Pollution Control Board on 11 October 2018, which was presided over by the Joint Collector. The main issues raised during the public hearing included Drinking Water Supply, Social Infrastructure Development, Greenbelt Development, Land Subsidence, Employment, CSR, and Pollution in the area.

Ministry had issued 1) EC no. J-11011/11/90-IA dated 30 July 1990 (Preliminary Clearance); 2) EC no. J-11011/6/91-IA dated 19 December 1991 (Final Clearance) (for development of oil/gas fields, installation of onshore oil & gas processing terminal and production of oil & gas by drilling of 32 wells); 3) EC no. J-11012/59/95-1A-II (I), dated 03 July 1996 (for development of one single point mooring and laying of one crude oil export pipeline); 4) EC no. J-11011/84/2000-IA-II dated 30 January 2001 (for drilling, development of facilities both at offshore and onshore for gas production); 5) EC no. J-11011/50/2001-IA II dated 17 September 2001 (for oil & gas exploratory drilling of 8 nos. of wells in offshore); 6) EC no. J - 11011/207/2004-IA(II)I dated 04 August 2005 (for drilling of 15 nos. additional infill (development) wells in offshore to sustain production); 7) EC no. 10-28/2004-IA-III dated 31 March 2006 (for exploratory drilling in onshore area of PKGM-1 Block for drilling of 2 nos. of wells); 8) EC no. J-11011/80/2013-IA II (I) dated 23 February 2015 & 9) CRZ Clearance vide letter no. F.No.11-20/2015-IA.III

dated 25 May 2017 (for drilling of 20 + 6 development & exploratory offshore wells; one new platform and subsea pipeline) to the existing project for Oil & Gas Development in existing Ravva Offshore Field, PKGM-1 Block located off Surasaniyanam (S.Yanam) in the Bay of Bengal, East Godavari District, Andhra Pradesh in favor of M/s. Vedanta Limited (Cairn Oil & Gas Division).

Details of Certified Compliance report submitted by Environmental Engineer, Regional Office Kakinada, Andhra Pradesh Pollution Control Board. The site inspection by APPCB, Regional Office Kakinada was conducted on 28.12.2018 & 18.01.2019 and the report is attached as part of the EIA report (in Annex 11 EIA Report Volume 2). There is no litigation pending against the proposal.

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 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 EIA/EMP 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 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 and incremental GLC due to the proposed project within NAAQ standards. The Committee has also deliberated on the CER plan and found to be addressing the issues in the study area and public hearing issues. Additional information submitted by the project proponent found to be satisfactory and addressing the concerns of the Committee.

The Committee suggested 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 APSCZMA for CRZ clearance and has recommended the project.

The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, and the CRZ Notification, 2011, 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 environmental & CRZ clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and the CRZ Notification, 2011 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 comments on the admissibility of the project as per the CRZ Notification, 2011***, and subject to compliance of terms and conditions as under, and general terms of conditions: -

- (i). The project proponent shall comply with all the conditions stipulated in the APSCZMA CRZ recommendations and NOC issued for the same.
- (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). No pipelines or its part shall be laid in the Forest land/Protected Area without prior permission/approval from the Competent Authority.
- (iv). As proposed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged to any surface water body, sea and/or on land. Mobile ETP along with RO plant shall be installed to treat the waste water.
- (v). During exploration, production, storage and handling, the fugitive emission of methane, if any, shall be monitored using Infra-red camera/ appropriate technology.
- (vi). The project proponent also to ensure trapping/storing of the CO₂ generated, if any, during the process and handling.
- (vii). Approach road shall be made pucca to minimize generation of suspended dust.
- (viii). The project proponent shall make all arrangements for control of noise from the drilling activity. Acoustic enclosure shall be provided for the DG sets along with the adequate stack height as per CPCB guidelines.
- (ix). Total fresh water requirement shall not exceed 25 cum/day/well. Prior permission shall be obtained from the concerned regulatory authority. Mobile ETP coupled with RO shall be installed to reuse the treated water in drilling system. Size of the waste shall be equal to the hole volume+ volume of drill cutting and volume of discarded mud if any. Two feet free board may be left to accommodate rain water. There shall be separate storm water channel and rain water shall not be allowed to mix with waste water. Alternatively, if possible pit less drilling be practiced instead of above.

- (x). The company shall construct the garland drain to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be created for oil contaminated and non-oil contaminated.
- (xi). Drill cuttings separated from drilling fluid shall be adequately washed and disposed in HDPE lined pit. Waste mud shall be tested for hazardous contaminants and disposed according to HWMH Rules, 2016. No effluent/drilling mud shall be discharged/disposed off into nearby surface water bodies. The company shall comply with the guidelines for disposal of solid waste, drill cutting and drilling fluids for onshore drilling operation notified vide GSR.546(E) dated 30th August, 2005.
- (xii). Oil spillage prevention and mitigation scheme shall be prepared. In case of oil spillage/ contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers.
- (xiii). The project proponent shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At fixed installations or plants use of ground flare shall be explored. At the place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation.
- (xiv). The project proponent shall develop a contingency plan for H₂S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H₂S detectors in locations of high risk of exposure along with self-containing breathing apparatus.
- ~~(xv).~~ Blow Out Preventer system shall be installed to prevent well blowouts during drilling operations.
- (xvi). On completion of the project, necessary measures shall be taken for safe plugging of wells with secured enclosures to restore the drilling site to the original condition. The same shall be confirmed by the concerned regulatory authority from environment safety angle. In case of hydrocarbon not found economically viable, a full abandonment plan shall be implemented for the drilling site in accordance with the applicable DGH / Indian Petroleum Regulations.
- (xvii). All the commitments made to the public during public hearing/consultation shall be satisfactorily implemented. *As committed Rs. 20 crore shall be allocated for Corporate Environment Responsibility (CER) shall be utilized for meeting the commitment of the issues of public hearing. The CER plan shall be completed before commissioning or expansion project.*
- (xviii). No lead acid batteries shall be utilized in the project/site.
- (xix). Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules. *All workers & employees shall be provided with required safety kits/mask for personal protection.*
- (xx). Oil content in the drill cuttings shall be monitored and report & shall sent to the Ministry's Regional Office.
- (xxi). The project proponent shall prepare operating manual in respect of all activities, which would cover all safety & environment related issues and measures to be taken for protection. One set of environmental manual shall be made available at the drilling site/ project site. Awareness shall be created at each level of the

management. All the schedules and results of environmental monitoring shall be available at the project site office. Remote monitoring of site should be done.

Amendment in Environmental Clearance

Agenda No.21.4

Expansion by drilling of Infill Oil and Gas Development Wells (20) by M/s M/s Joshi Technologies International Inc in existing Dholka field, Districts Kheda and Ahmedabad (Gujarat) - Amendment in Environmental Clearance

[IA/GJ/IND2/153433/2020; J-11011/581/2011-IAII(I)]

The proposal is for extension in validity of the environmental clearance granted by the Ministry vide letter number J-11011/581/2011-IA II (I) dated 27th May, 2013 for the project expansion by drilling of Infill Oil and Gas Development Wells (20) in existing Dholka field, Districts Kheda and Ahmedabad (Gujarat) in favour of M/s Joshi Technologies International Inc.

The project proponent has informed that due to low oil prices since last 3 years it was not economical to commence drilling of remaining 8 wells and requested for extension in validity of the environmental clearance dated 27th May, 2013 for another period of three(03) years.

The Committee, after detailed deliberations, has **recommended** for extension of validity of the environmental clearance for another period of three (03) years i.e. till 26th May, 2023, to complete the work as per the scope of the project, with all other terms and conditions remain unchanged.

21.5 Any other items with the permission of the Chairman.

Agenda No. 21.5.1

Expansion of Naphtha cracking facility and petrochemical products at Tehsil Suthata -I, Haldia District, East Medinipur, West Bengal - Transfer (Split) of EC from M/s Haldia Petrochemicals Ltd. (HPL) to M/s Advanced Performance Materials Private Limited (AdPerMa).

[IA/WB/IND2/138269/2020, IA-J-11011/194/2016-IA-II(I)]

The Project Proponent and the accredited Consultant M/S ERM India Private Limited, made a detailed presentation on the salient features of the project and informed that:

The proposal is for transfer (& split) of Environmental Clearance granted by the Ministry of Environment, Forest and Climate Change vide Letter No. F.No. J-11011/194/2016-IA-II (I) dated 20th March 2018 for expansion of Naphtha cracking facility and petrochemical products at Tehsil SUTAHATA -I, Haldia District, East Medinipur, West Bengal in favour of M/s Haldia Petrochemicals Limited to Advanced Performance Materials Private Limited (AdPerMa), wholly owned subsidiary of HPL, without change of ownership.

The Project proponent has requested for a transfer (& split) of EC for the following reasons:

- HPL has incorporated a wholly owned subsidiary in the name of Advanced Performance Materials Private Limited (AdPerMa) in July 2017 to explore new opportunities downstream of HPL, which will help to de-risk HPL's cash flows by driving business in performance chemicals with flexibility to venture with technology partner and/or other value added partners (equity, trading or specialist distributors);
- Butene -1 Project will be the initial project that will be transferred to AdPerMa; and
- HPL has no objection in transferring applicable part of the EC to AdPerMa for Butene -1 plant along with associated infrastructure like storage and pipelines.
- The transfer (split) of EC would include the following:

Description	Existing Conditions		Proposed transfer (split) of products and infrastructure			
			HPL		AdPerMa	
	Name of Product	KTA	Name of Product	KTA	Name of Product	KTA
Products as per EC – F.No. J-11011/194/2016-IA-II(I) dated 20/03/2018						
1.	Ethylene	770	Ethylene	770	-	-
2.	Propylene	385	Propylene	385	-	-
3.	Polypropylene	341	Polypropylene	341	-	-

4.	High Density Poly Ethylene (HDPE)	494	High Density Poly Ethylene (HDPE)	494	-	-
5.	Linear Low Density Poly Ethylene (LLDPE)	386	Linear Low Density Poly Ethylene (LLDPE)	386	-	-
6.	Butadiene	111	Butadiene	111	-	-
7.	Benzene	175	Benzene	175	-	-
8.	Butene-1	30.2			Butene-1*	30.2
9.	MTBE	98.6			MTBE*	98.6
10.	C4 Raffinate	-	C4 Raffinate	126 ^{Note-1}		
11.	Vinyl Acetate Ethylene (VAE)	60	Vinyl Acetate Ethylene (VAE)	60	-	-
12.	Mixed Butane	126 ^{Note-2}	Mixed Butane	126 ^{Note -2}	-	-
13.	Cyclo Pentane	8.2	Cyclo Pentane	8.2	-	-
14.	Pyrolysis Gasoline	200	Pyrolysis Gasoline	200	-	-
15.	Motor Spirit (MS) Euro IV	300	Motor Spirit (MS) Euro IV	300	-	-
16.	Phenol	200	Phenol	200	-	-
17.	Acetone	123	Acetone	123	-	-
18.	Carbon Black Feedstock (CBFS)	100	Carbon Black Feedstock (CBFS)	100	-	-

19.	Poly Butylene Terephthalate (PBT)	70	Poly Butylene Terephthalate (PBT)	70	-	-
20.	Tetrahydrofuran (THF)	16	Tetrahydrofuran (THF)	16	-	-
21.	C6 Raffinate	64	C6 Raffinate	64	-	-
Additional Hazardous Chemical Storage Tank	Name of Product (No. of tanks)	Total Storage Quantity (MT)	Name of Product (No. of tanks)	Total Storage Quantity (MT)	Name of Product (No. of tanks)	Total Storage Quantity (MT)
1.	Naphtha (1)	28,632	Naphtha (1)	28,632	-	-
2.	Motor Spirit (1)	3,080	Motor Spirit (1)	3,080	-	-
3.	Hydrogenated Py-Gas (1)	3,560	Hydrogenated Py-Gas (1)	3,560	-	-
4.	MS Blending Tank (1)	932	MS Blending Tank (1)	932	-	-
5.	Butadiene (1)	1,271	Butadiene (1)	1,271	-	-
6.	Fuel Grade Naphtha (1)	9,380	Fuel Grade Naphtha (1)	9,380	-	-
7.	LPG (1)	10,000	LPG (1)	10,000	-	-
8.	Methanol (2)	7,128			Methanol (2)	7,128
9.	MTBE (2)	7,400			MTBE (2)	7,400
10.	MTBE (1)	2,072			MTBE (1)	2,072
11.	Phenol (3)	16,050	Phenol (3)	16,050	-	-
12.	Acetone (2)	7,910	Acetone (2)	7,910	-	-

13.	Butanediol (2)	6,324	Butanediol (2)	6,324	-	-
14.	THF (2)	3,556	THF (2)	3,556	-	-
15.	VAM (2)	10,274	VAM (2)	10,274	-	-
16.	VAE (2)	7,520	VAE (2)	7,520	-	-
17.	NaOH 50% (Caustic Soda) (2)	795	NaOH 50% (Caustic Soda) (2)	795	-	-
18.	H ₂ SO ₄ 98% (1)	478	H ₂ SO ₄ 98% (1)	478	-	-
Land (ha)	453.00		451.48		1.519	
Manpower (Permanent)	40-50		40-50		<p>Currently, five key positions have been identified and filled for AdPerMa by nominating/transferring appropriate resources from HPL. In addition, O&M contract between HPL and AdPerMa is already in place for extending necessary services by HPL to AdPerMa for operating and maintaining the Plant.</p> <p>Welfare amenities for the above employees will be provisioned at AdPerMa by HPL</p>	
Manpower (Contractual)	100-150		100-150			
Power (MW)	19		18.24		0.76	
Steam (TPH)	172.25		148.55		23.7	

Power and Steam Source	Additional 1X35 MW CSTG and 3X120 TPH Coal Fired Boiler in existing Captive Power Plant	Additional 1X35 MW CSTG and 3X120 TPH Coal Fired Boiler in existing Captive Power Plant	Sourced from HPL
Water (MGD)	10 (Sourced from Geonkhali Water Supply System)	9.842 (Sourced from Geonkhali Water Supply System)	0.158 (Sourced from HPL)
Effluent (m ³ /day)	1000 (Effluent discharged will be treated in Integrated Wastewater Treatment Plant of HPL)	937.6 (Effluent discharged will be treated in Integrated Wastewater Treatment Plant of HPL)	62.4 (Effluent discharged will be treated in Integrated Wastewater Treatment Plant of HPL)
Catalysts MT/3-5 years (Hazardous waste)	150 (To be handled by HPL)	104.32 (To be handled by HPL)	45.68 (To be handled by AdPerMa and finally disposed by HPL)
Project Cost in Crores (INR)	4310	4064	246

Note-1: In EC approved by MoEFCC on 20th Mar 2018, C4 Raffinate from Naphtha Cracker Associated Unit was considered transferred as feedstock to Butene-1 plant to produce Butene-1 and MTBE. Accordingly, C4 Raffinate was not shown in the product slate of HPL. After proposed transfer (split) of EC, HPL would produce and transfer C4 Raffinate to AdPerMa as feedstock to Butene-1 plant. Thus, HPL's product slate shall include C4 Raffinate as product.

Note-2: Maximum production in case Butene-1 plant is non-operational. Normal production would be 33 kTA.

The Member Secretary informed the EAC that the Ministry has granted environmental clearance vide letter dated 20th March, 2018 in favour of M/s Haldia Petrochemicals Limited for expansion of Naphtha cracking facility and petrochemical products at Tehsil Satahata-I, Haldia, District East Medinipur (West Bengal).

The project proponent has earlier submitted application for amendment/bifurcation of EC for the following reasons:

- (i). M/s HPL has incorporated a wholly owned subsidiary in the name of M/s Advanced Performance Materials Private Limited (AdPerMa) in July 2017 to explore new opportunities downstream of HPL, which will help to de-risk HPL's cash flows by driving business in performance chemicals with flexibility to venture with technology partner and/or other value added partners (equity, trading or specialist distributors);
- (ii). Butene -1 Project will be the initial project that will be transferred to AdPerMa; and
- (iii). HPL has no objection in transferring applicable part of the EC to AdPerMa for Butene -1 plant along with associated infrastructure like storage and pipelines.

The proposal for amendment/bifurcation has been considered by the EAC (Industry-2) in its meetings held during 30-31 May, 2019, 28-29 August, 2019 and 20-22 November, 2019. The Committee in its meeting held on 30-31 May, 2019 was not inclined to take the proposal forward. However, during the meeting held on 28-29 August, 2019, the project proponent informed that there are similar other cases where existing EC was split and/or amended. The Committee asked for details of such proposals to ensure uniformity.

The EAC in its meeting held on 20-22 November, 2019 noted that the cases submitted by the project proponent in support of their claim for amendment/bifurcation has been appraised and recommended by the sectoral EACs and approved by the Ministry are on merit and case to case basis, as those project were separable physically, and thus monitoring and compliance of the environment norms are possible.

The Committee, observed that the EIA Notification, 2006, read with subsequent amendments, was not having any provisions for the proposed bifurcation/amendment of environmental clearances on the above lines. Further, in view of M/s AdPerMa being a wholly owned subsidiary of M/s HPL, the EAC was not inclined to consider the present proposal and desired to discourage such bifurcations aimed only at mere financial gains, which would recur at subsequent stages and ultimately result in compliance of the EC conditions more difficult and complex. The Committee suggested that the project proponent have the liberty to apply afresh for ToR/EC. The Committee has accordingly decided not to recommend the present proposal and return in present form.

Now the project proponent has submitted the proposal for transfer of EC. As per para 11 of the EIA Notification, 2006, EC can be transferred completely during its validity period. As the case has been earlier deliberated by the Committee for amendment/bifurcation, the proposal has now been placed before the Committee. The Member Secretary has informed the EAC that the Committee in the recent time has considered amendment/bifurcation of EC proposals of similar nature.

The EAC during deliberations observed that M/s AdPerMa being a wholly owned subsidiary of M/s HPL, submitted the present proposal only at mere financial gains, which would ultimately result in compliance of the EC conditions more difficult and complex, and responsibility of the environmental safeguards will be abdicated. The Committee has accordingly not considered the proposal for amendment/bifurcation earlier, and now the project proponent has submitted the proposal for transfer of EC. Subsequent to submission of proposal for transfer (split) of EC as per para 11 of the EIA Notification, 2006, the proposal has been referred to EAC for comments. The Committee noted that as per the notification, transfer of EC is not requiring appraisal by the EAC and EC can be transferred completely during its validity period and may not be able to split as per this provision.

M/s HPL has informed that M/s Advanced Performance Materials Private Limited (AdPerMa) is its wholly owned subsidiary and M/s HPL shall be responsible for all the environmental safeguards and compliance of the EC conditions. M/s AdPerMa shall be responsible for the production of Butene-1 & MTBE and subsequent process and marketing.

The Committee after detailed deliberations, is of the considered view that the Ministry may take a view on the applicability of the proposal in its present form, however, taking cognizance of submission of M/s HPL that they shall be responsible for all the environmental safeguards and compliance of the EC conditions, has **recommended** that M/s AdPerMa may be allowed to carry out production of Butene-1 and MTBE with all its associated facilities.

Agenda No. 21.5.2

- (i). **Onshore Oil and Gas Exploration, Development and Production in HF-ONHP-2017/1 Hydrocarbon Block in Bilaspur and Mandi District, Himachal Pradesh by M/s Vedanta Limited (Division Cairn Oil & Gas)
[IA/HP/IND2/100583/2019]**
- (ii). **Onshore Oil and Gas Exploration, Development and Production in GV-ONHP-2017/1 Hydrocarbon Block in Kheri and Shahjahanpur districts of Uttar Pradesh by M/s Vedanta Limited (Division Cairn Oil & Gas)
[IA/UP/IND2/100648/2019]**
- (iii). **Onshore Oil and Gas Exploration, Appraisal and Early Production in Block AA-ONHP-2017/14 in Karimganj, Hailakandi, Cachar Districts of Assam and Kolasib District of Mizoram by M/s Vedanta Limited (Division Cairn Oil & Gas)
[IA/AS/IND2/155930/2019]**

- (iv). Onshore Oil and Gas Exploration and Appraisal in RJ-ONHP-2017/1 Block, Barmer District, Rajasthan by M/s Vedanta Limited (Division Cairn Oil & Gas) [IA/RJ/IND2/98724/2019]
- (v). Onshore Oil and Gas Exploration and Appraisal in RJ-ONHP-2017/2 block in Barmer and Jalore Districts, Rajasthan by M/s Vedanta Limited (Division Cairn Oil & Gas) [IA/RJ/IND2/99900/2019]
- (vi). Onshore Oil and Gas Exploration and Appraisal in RJ-ONHP-2017/4 block in Barmer and Jalore District, Rajasthan by M/s Vedanta Limited (Division Cairn Oil & Gas) [IA/RJ/IND2/100056/2019]
- (vii). Onshore Oil and Gas Exploration and Appraisal in RJ-ONHP-2017/5 Block, Barmer District, Rajasthan by M/s Vedanta Limited (Division Cairn Oil & Gas) [IA/RJ/IND2/98971/2019]
- (viii). Onshore Oil and Gas Exploration and Appraisal in RJ-ONHP-2017/6 Block, Barmer District, Rajasthan by M/s Vedanta Limited (Division Cairn Oil & Gas) [IA/RJ/IND2/99109/2019]
- (ix). Onshore Oil and Gas Exploration and Appraisal in RJ-ONHP-2017/7 block in Barmer District, Rajasthan by M/s Vedanta Limited (Division Cairn Oil & Gas) [IA/RJ/IND2/99765/2019]

The Member Secretary informed the EAC that the above mentioned projects are granted terms of reference for exploration and appraisal and public hearing has been conducted accordingly. The projects are now covered under Category B2 as per the EIA Notification, 2006 as amended on 16th January, 2020.

The EAC during deliberations noted that proposal has been submitted for onshore oil and Gas exploration and appraisal. As per the Ministry Notification S.O. 236(E) dated 16th January, 2020, "*All project in respect of off-shore and onshore oil and gas exploration are categorized as 'B2' projects*". Accordingly, now, only projects in respect of off-shore and onshore oil and gas development and production except exploration, are listed at Category A, requiring appraisal at the Central by the Expert Appraisal Committee. The EAC also noted that the Early Production Unit (EPU) / Quick Production Unit (QPU) is associated facility of exploration and appraisal and as such the projects are not be considered for development and production. The EAC suggested the project proponent to apply at respective SEIAA for consideration of project under *B2 category*. *The EAC therefore agreed to RETURN these proposals in its present form.*

ANNEXURE

GENERAL CONDITIONS

- (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.

Annexure-I

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

S. No.	Name and Address	Designation
1.	Dr. J. P. Gupta	Chairman
2.	Shri R. K. Singh	Member
3.	Shri Ashok Agarwal	Member
4.	Shri S.C. Mann	Member
5.	Dr. Y.V. Rami Reddy	Member
6.	Dr. T. K. Joshi	Member
7.	Dr. J. S. Sharma	Member
8.	Dr. Saloni Goel	Member
9.	Dr. T. Indrasena Reddy	Member
10.	Dr. Uma Kapoor, CGWA	Member
11.	Shri Dinabandhu Gouda, CPCB	Member
12.	Sh. Sanjay Bist, IMD	Member
13.	Shri Ashok Kumar Pateshwary, Director, MoEFCC	Member Secretary
MoEFCC		
14.	Dr Saurabh Upadhyay	Scientist 'C'
15.	Dr. E.P. Nobi	Research Officer
