

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

Dated: 29.06.2020

**MINUTES OF THE 20th MEETING OF THE EXPERT APPRAISAL COMMITTEE
(INDUSTRY-2 SECTOR FOR PETRO-CHEMICAL BASED PROJECTS),
HELD on 18th June, 2020**

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

Time: 10:40 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 19th Meeting of the EAC (Industry-2: Petro-chemical Projects) held during May 11-13, 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 19th EAC meeting held during 11-13 May, 2020 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.

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: -

18th June, 2020 (Thursday)

Consideration of Environmental Clearance

Agenda No.20.1

Installation of 9 MTPA Grass root Cauvery Basin Refinery at Panangudi village, Tehsil & District Nagapattinam, Tamil Nadu by M/s CHENNAI PETROLEUM CORPORATION LIMITED -Consideration of Environment Clearance

[IA/TN/IND2/76843/2018, IA-J-11011/276/2018-IA-II(I)]

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

The proposal is for environmental clearance to the project for installation of 9 MTPA Cauvery Basin Refinery in existing refinery premises by M/s Chennai Petroleum Corporation Limited at Panangudi village, Tehsil & District Nagapattinam (Tamil Nadu).

The details of products and capacity as under:

Sr No.	FEEDS	KTPA
1	LPG	676
2	Polypropylene	532
3	BS VI Regular Gasoline	1260
4	BS VI Premium Gasoline	540
5	Total Gasoline	1800
6	ATF	300
7	BS VI Diesel	3998
8	Sulphur	238
9	DCU Coke	221
10	Fuel & Loss	1253
Total Products including Fuel & Loss		9018

Standard ToR for the project was issued vide letter dated 11th October, 2018 for the proposed project.

The project/activity is covered under category A of items 4(a) "Petroleum Refining Industry", 5(c) "Petro-chemical complexes" and 6(a) "Oil & Gas transportation pipeline" of the Schedule the Environment Impact Assessment (EIA) Notification, 2006 and requires appraisal at Central Level by the Expert Appraisal Committee (EAC) in the Ministry.

The details of earlier clearances issued by the Ministry in favour of M/s CPCL is as under: -

S. No	Project	EC letter no.	Date of EC
1.	Setting up Distillation facilities at Cauvery Basin	J-11011/19/89-IA.II	24/05/1991
2.	Development of Jetty facilities for import of crude and export of petroleum products at Nagapattinam Port	J-16011/31/2001-IA-III	29/05/2001
3.	Capacity Expansion from 0.5 MMTPA to 1.0 MMTPA and Setting up GSU/ LPG Recovery Unit	J-11011/69/2004-IA-II	25/10/2004
4.	Crude Oil Pipeline between Karaikal Port Pvt. Ltd. to the existing Chidambaranar Oil Jetty	11-82/2010-IA.III	18/11/2010

The existing 1 MMTPA refinery at Panangudi village is going to be dismantled while retaining some utilities. The refinery is already in shutdown since July 2019 and subsequently oil jetty is in idle condition. Crude is being received from M/s ONGC and the same is transferred to Chennai through pipeline via M/s Karaikal Port Private Limited (KPPL).

Total area requirement for Cauvery Basin Refinery is 1338.29 acres in Tamil Nadu State and 6.33 acres in Karaikal region in Puducherry UT (for Pipeline corridor). The existing refinery area is 618.29 acres. Balance land of 726.33 acres (720 acres in Tamil Nadu &

6.33 acres in Karaikal district of Puducherry UT) is under acquisition by CPCL.436.5 acres covering 33.5 % of the total complex area (1303 acres). The existing 324 acres greenbelt area within the refinery will be retained and utmost care will be taken to protect the existing greenbelt. The estimated project cost is Rs. 32908 crores.Total capital cost earmarked towards environmental pollution control measures is Rs. 199.40croresand the recurring cost (operation and maintenance) will be about Rs.3crores per annum. Direct employment will be 600 persons & indirect employments will be1000 persons during operation phase of the refinery.

There are National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. River Vettaris flowing at a distance of 2 Km in South direction from the proposed project.

Ambient air quality monitoring was carried out at 10 locations during March to May 2018 and the baseline data indicates the ranges of concentrations as PM10 (46-78µg/m³), PM2.5 (24-46µg/m³), SO₂ (5-10µg/m³) and NO₂ (8-16µg/m³) respectively. Air quality modeling was carried out for the proposed project. 24 hourly maximum incremental GLC for SO₂ and NO_x are predicted as 41.3 µg/m³ and 35.0 µg/m³. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Fresh water requirement for proposed project will be 3300m³/hr (including 72 m³/hr from Sooranur wells). Water demand will be met from Desalination Plant with a design capacity of 3300 m³/hr. Cauvery Basin Refinery is withdrawing 1728 m³/day water from tubewells near Sooranur and water is supplied to the refinery through pipeline. The existing water supply from Sooranur wells will be retained. NOC from Central Ground Water Authority is obtained.

Effluent will be treated in a new Effluent Treatment Plant of capacity 550 m³/hr and then treated water will be routed to RO-DM facility. There will be a discharge of 5923 m³/hr (Brine from Desalination Plant of 5563 m³/hr and RO reject of 360 m³/hr) to Sea through a pipeline.

Public Hearing for the proposed project has been conducted by the Tamil Nadu Pollution Control Board on 20.09.2019 at CPCL Township, Tehsil & District-Nagapattinam near to the existing refinery. The hearing was presided over by the District Collector, Nagapattinam. The main issues raised during the public hearing were related to employment generation, socio economic development, infrastructure development and environment only.

The EAC during deliberations noted that the proposed project for setting up Petroleum Refinery of capacity 9 MMTPA by dismantling existing refinery of 1 MMTPA. The Committee also noted that the project proponent was unable to respond for the applicability of CRZ clearance for the proposed project and details of land possession and Land use change.

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

- (i). Confirm the applicability of CRZ Notification/CRZ Clearance for the project site as well as the proposed pipeline. Also, submit Marine Conservation plan.*
- (ii). Public hearing issues, action plan along with budget provisions.*
- (iii). Comparison of emission w.r.t. Sulphur content with other refineries.*
- (iv). Revised water balance with improvement in evaporation loss and commitment not to use ground water.*
- (v). Socio-economic status report of the study area*
- (vi). Detailed CER plan along with action plan for drinking water facility for the people.*
- (vii). Provision for employment to the local people.*

- (viii). *In view of several recent chemical accidents occurred in various parts of the country, the risk studies need to be carried out based on the following protocol using 3 D modelling which incorporates dispersion of vertical component vital for developing & placing accident prevention program in place:*
- *Material Safety Data Sheet (MSDS/MDS)*
 - *Hazard Identification, Consequence analysis in terms of effect / threat zone distances.*
 - *Risk need to be carried out for Small, Medium, Larger and Catastrophic ruptures / leak and to be modeled as representative cases. Frequency/ Probability of leak per year.*
 - *Risk needs to be quantified in terms of Individual Risk Contours*
 - *Societal risk*
 - *F-N curves to assess against risk acceptance criteria (HSE, UK etc.)..*
- (ix). *Air dispersion formula to determine stack height*
- (x). *Plan for installation of solar power and utilization in the plant*
- (xi). *Details of wildlife sanctuary/ESA and environmental sensitivity within 10 km of the project site.*

The proposal was therefore deferred for the needful.

Agenda No. 20.2

Expansion of onshore oil & gas processing plant at Uran by establishing Additional Cogeneration Unit GT-IV and Enhanced Reactive Thermal Oxidizer (ERTO) within the existing Uran Plant, Uran, Maharashtra by M/s Oil and Natural Gas Corporation Limited – Consideration of Environment Clearance

[IA/MH/IND2/148052/2018, J-11011/635/2008-IA-II(I)]

The Project Proponent and their accredited consultant M/s Engineers India Limited 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 onshore oil & gas processing plant by establishing additional Cogeneration Unit GT-IV and Enhanced Reactive Thermal Oxidizer (ERTO) within the existing Uran Plant, Uran, District Raigad, Maharashtra by M/s Oil and Natural Gas Corporation Limited (ONGC).

Standard ToR for the project was issued by the Ministry vide letter dated 22nd March, 2018.

The project/activity is covered under category A of items 5(c) "Petro-chemical complexes" of the Schedule to the Environment Impact Assessment (EIA) Notification, 2006 and requires appraisal at Central Level by Expert Appraisal Committee (EAC) in the Ministry.

Ministry had issued ECs earlier vide (a) Letter no. J-11011/12/87-IA dated 14.06.1990 for 5,70,000 MTPA Ethane-Propane Recovery Unit (EPRU), (b) Letter no. J-13011/18/95-1A-II dated 01.12.1995 for Additional Co - Generation Facility, (c) Letter no. J-82/2004-IA, III dated 20.12.2006 for Uran-Trombay- Jawahar Dweep 36" Oil pipeline Project, (d) Letter no. 11-61/2007-IA-III dated 02.11.2007 for 20" Uran Trombay Gas Pipeline Project, (e) Letter no. J-11011/635/2008- I A II (I) dated 20.09.2010 for Additional Process Facilities & Debutanisation Projects, (f) Letter no. J-11011/354/2016-IA-II(I) dated 21.02.2018 for Expansion of Uran Oil & Gas processing plant by Adding LPG bullets at Uran Complex and (g) Letter no. 11-24/2017-IA-III dated 03.10.2017 for CRZ clearance for setting up of 20 MLD SWRO Desalination Plant inside ONGC Uran Plant in favour of M/s Oil and Natural Gas Corporation Limited.

The total plant area is 112 hectares and the project will be established within the plant complex. Industry has developed green belt/cover in 7400 sq. m area out of available 11665 sq. m open area. This Greenbelt constitutes 0.66% of the total area of the project, i.e 112 hectares. Industry has already utilized the maximum available area inside complex that can be available for green belt/ cover. Proponent has carried out extensive plantation of more than 2 lakh trees (area 2.74 sq. Kms) outside the complex boundary on the adjacent Dronagiri hill and will also continue the same in consultation with local forest/agriculture department.

The estimated project cost is Rs. 268.95 crores. Total capital cost earmarked towards environmental pollution control measures is Rs 166 lakhs and the recurring cost (operation and maintenance) will be about Rs 55 lakhs per annum. The proposed project will provide direct employment for 20 persons during operation & indirect employment for 200 persons during construction phase. It is proposed to allocate Rs 2.27 crores towards Corporate Environment Responsibility (CER).

There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km from the project site. Arabian sea is at 900 meters away from ERTO project site and 300 meters away from GT-IV project site in West direction.

Ambient air quality monitoring was carried out at 8 locations during March to May, 2017 submitted baseline data indicates that ranges of concentrations of PM₁₀ (42.8- 63.8 µg/m³), PM_{2.5} (18.4- 34.9 µg/m³), SO₂ (5.2- 9.4 µg/m³) and NO₂ (13.2- 34.4 µg/m³) respectively. There will be 2 nos. stacks in the proposed project. Air quality modeling was carried out for the proposed project. 24 hourly maximum incremental GLC for SO₂ and NO_x are predicted as 1.44 µg/m³ and 1.52 µg/m³. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total fresh water requirement will be 220 m³ / day (9.2 m³/hr) which will be met from existing supply of Maharashtra Industrial Development Corporation (MIDC).

There shall be 100 m³/day (4.2 m³/hr) of liquid effluent generation from proposed project. This effluent which is mainly brine solution of Sodium Sulfite (Na₂SO₃), will be diluted with treated ETP waste water and disposed off to sea along with existing ETP treated waste water.

Power requirement for the proposed project will be 750KW and will be met from internal generation. In case of power failure, existing DG set shall be used for power requirement.

Existing plant has three (03) gas turbines (total cap. 58.8 MW) and heat recovery steam generators (total cap. 240 TPH) and 90 TPH gas fired boiler. Additionally, installation of an additional gas turbine (Cap. 20 MW) and heat recovery steam generator (cap. 60 TPH) is proposed. Minimum Stack height of 30 m will be provided for the proposed Gas Turbine (GT) stack.

Total SO₂ emission from the proposed project will be 5.2 kg/hr. For emission management: Gaseous fuel will be used in GT to minimize air emission, All the emission standards will be met for gaseous emissions, Continuous stack monitoring for ambient air pollution, Leak Detection and Repair (LDAR) programme for fugitive hydrocarbon emission control, Ensuring preventive maintenance of equipment, Developing green belt/cover.

No Solid waste generation is envisaged from proposed project. Solid wastes from existing plant is handled as per Hazardous and Other Wastes (Management & Trans boundary Movement) Rules, 2016 and it's amendments.

Public Hearing for the project was conducted by Maharashtra State Pollution Control Board on 27th August, 2019 which was presided over by the Additional District Magistrate. The main issues raised during the public hearing were related to Employment to Project Affected Persons (PAP), Land Compensation to PAP, Employment to Locals, Employment after imparting training / Skill development program, CSR fund, Health facilities to Nearby Villagers.

Regional Office of MoEFCC issued Certified Compliance Report vide F.No 5-52/2010(ENV)/3200 dated 02/02/2018 for ONGC-Uran complex. It is reported that there is no litigation pending against the proposal.

The details of products and capacity as under:

S.No.	Product	Existing Quantity	Proposed Quantity	Total Quantity
1.	Power	58.8 MW	20 MW	78.8 MW
2.	Steam	330 TPH	60 TPH	390 TPH
3.	Natural Gas	16 MMSCMD	Nil	16 MMSCMD
4.	Crude Oil	20 MMT	Nil	20 MMT
5.	LPG	0.625 MMTPA	Nil	0.625 MMTPA
6.	C2C3	0.625 MMTPA	Nil	0.625 MMTPA
7.	Naphtha	0.33 MMTPA	Nil	0.33 MMTPA
	Total	-	-	-

The EAC during deliberations noted that the proposed project/activity is not leading to any expansion in production in the plant. However, these units shall be installed in the plant leading to overall expansion in the uran plant complex. The Committee observed that considering the location of the project site adjacent to the coastal area, the proposed project/activity or the entire project area shall require CRZ clearance. The Committee has also desired that the project proponent needs to submit proposal with production details/utilities of the entire complex for better management and compliance.

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

- (i). *Revised proposal combining the production/Utilities in the plant complex.*
- (ii). *Requirement of CRZ clearance for the project/plant and the pipeline.*
- (iii). *CRZ map of the plant area in 1:4000 scale.*
- (iv). *Recent baseline data collected from the existing detectors in the plant and adjoining area for the critical parameters.*
- (v). *Sources of emissions in the plant and details of detectors based on 3 D assessment.*
- (vi). *Management of odopur/ Hydrogen Sulphide emission*
- (vii). *Plan for recovery of 75% of the effluent disposed to the sea.*
- (viii). *Safety audit of the unit.*
- (ix). *Public hearing issues, action plan along with budget provisions.*
- (x). *Detailed CER plan with provisions for improvement of fishery/fishermen in the study area.*
- (xi). *Compliance status of the existing EC conditions.*
- (xii). *Plan for installation of solar power and utilization in the plant*
- (xiii). *Details of wildlife sanctuary/ESA within 10 km of the project site.*
- (xiv). *Details of greenbelt development in the plant, around the periphery and outside.*

The proposal was therefore deferred for the needful.

Agenda No. 20.3

Setting up 500 KTA Propane Dehydrogenation unit integrated with Polypropylene Unit at Raigardh (Maharashtra) by M/s GAIL India Limited- Consideration of Environment Clearance

[IA/MH/IND2/69404/2017, IA-J-11011/464/2017-IA-II(I)]

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

The proposal was earlier considered by the EAC (Industry-2) in its meeting held on 20-22th November, 2019 and returned the proposal for want of corrected EIA/Form 2.

The proposal is for environmental clearance to the project for Setting up 500 KTA Propane Dehydrogenation (PDH) unit at Usar Industrial Area, Usar village, Alibag Tehsil, Raigad district, Maharashtra by M/s GAIL (India) Limited.

Standard ToR for the project was issued vide letter dated 26th October, 2017 for the proposed project.

The project/activity is covered under category A of items 5(c) "Petro-chemical complexes" of the Schedule the Environment Impact Assessment (EIA) Notification, 2006 and requires appraisal at Central Level by the Expert Appraisal Committee (EAC) in the Ministry.

The total land area available in the complex is 321 acres. The proposed project will be established within the total plant area. Greenbelt will be developed in an area of 106 acres covering 33 % of the total project area.

The estimated project cost is Rs. 6707.67 crores. Total capital cost earmarked towards environmental pollution control measures is Rs 10.25 crores and the recurring cost (operation and maintenance) will be about Rs 1.38 crores per annum. The project will provide direct employment for 330 persons during operation & indirect employment for 2500 persons during construction phase. It is proposed to allocate Rs. 20.77 crores towards Corporate Environment Responsibility (CER).

There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km from the project site. Arabian sea, Kundalika river and Amba river are present within 10 km from the project site. It was informed that the project site is not located in the CRZ area/ESA area.

Ambient air quality monitoring was carried out at 8 locations during 15th December, 2017 to 15th March 2018 and the baseline data indicates the ranges of concentrations as: PM₁₀ (56.2-67.8 µg/m³), PM_{2.5} (25.1-32.5 µg/m³), SO₂ (12.2-14.7 µg/m³) and NO₂ (13.8-16.5 µg/m³) respectively. There will be 3 nos. stacks in the proposed plants. Air quality modeling was carried out for the proposed project. 24 hourly maximum incremental GLC for SO₂ and NO_x are predicted as 0.13 µg/m³ and 1.55 µg/m³. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total fresh water requirement will be 11,520 m³ / day (480 m³/hr) which will be met from supply of Maharashtra Industrial Development Corporation (MIDC).

There shall be 15 m³/hr of liquid effluent generation from proposed plant which will be treated in Effluent Treatment Plant. ETP treated waste water will be recycled through Zero Liquid Discharge (ZLD) plant. There will not be any liquid effluent discharge from plant.

Power requirement for the proposed project will be 125 MW and sourced from state electricity grid. There will be 1 no. new DG set of 3 MW capacity used during power failure. Stack height of 30 m will be provided as per CPCB norms to the proposed DG set.

The plant has 5 TPH FG/NG fired boiler. Additionally, (1 + 1) x 50 TPH FG/NG fired boiler (1 working, 1 standby) will be installed. Minimum Stack height of 35 m will be provided for the proposed boiler stack.

Total SO₂ emission from the proposed project will be 6.0 kg/hr. For emission management: Gaseous fuel will be used in heater & boiler to minimize air emission, Low NOX burners in heater & boiler, All the emission standards will be met for gaseous emissions, Continuous stack monitoring for ambient air pollution, Leak Detection and Repair (LDAR) programme for fugitive hydrocarbon emission control, ensuring preventive maintenance of equipment, Developing green belt.

Solid waste like Spent Catalyst, Adsorbents, Inert grain, Alumina Balls, Support balls will be generated once in 4 years during operation phase. Spent Catalyst will be handed over to catalyst processor for metals reclamation/ authorized recyclers. Other solid wastes shall be sent to landfill in accordance with local regulation. An agreement with locally approved TSDF agency will also be put in place. All hazardous solid wastes will be handled as per Hazardous and Other Wastes (Management & Trans boundary Movement) Rules, 2016 and its amendments.

Public Hearing for the project was conducted by the Maharashtra State Pollution Control Board on 21.06.2019 which was presided over by the Additional District Magistrate, Raigad. The main issues raised during the public hearing were related to Employment to Project Affected Persons (PAP), Land Compensation to PAP, Employment to Locals, Employment after imparting training / Skill development program, CSR, Insurance to Nearby Villagers.

The unit has earlier obtained Environmental Clearance/approval for LPG Recovery Project in 1992 vide file no. J-11011/22/91-1A-II(I) dated 29/04/1992 and 11/11/1992. Presently, LPG Usar plant is under shutdown due to non-availability of rich gas. GAIL submitted compliance to EC to Regional Office-MoEFCC vide letter no. GAIL/USR/LPG/TS/755/03-04 dated 06/03/2004.

It is reported that there is no litigation pending against the proposal.

The details of products and capacity as under:

S.No.	Product Details	Existing Quantity (KTPA)	Proposed Quantity (KTPA)	Total Quantity (KTPA)
1.	Polypropylene	0	500	500
2.	C4 LPG	0	25	25
	Total	0	525	525

The EAC during deliberations noted that the proposed project for production of Polypropylene through Propane Dehydrogenation (PDH) unit is new technology to the nation. The Committee noted that the fresh water requirement and effluent management proposed requires revision. The Committee also showed its displeasure over the poor presentation of the socio-economic status of the region.

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

- (xii). Public hearing issues, action plan along with budget provisions.
- (xiii). Revised water balance with improvement in evaporation loss.
- (xiv). Plan for ZLD along with MEE/modern technology.
- (xv). Plan for need based health programme.
- (xvi). Socio-economic status report of the study area
- (xvii). Detailed CER plan along with action plan for drinking water facility for the people.
- (xviii). Provision for employment to the local people.
- (xix). In view of several recent chemical accidents occurred in various parts of the country, the risk studies need to be carried out based on the following protocol using 3 D modelling which incorporates dispersion of vertical component vital for developing & placing accident prevention program in place:
 - Material Safety Data Sheet (MSDS/MDS)
 - Hazard Identification, Consequence analysis in terms of effect / threat zone distances.
 - Risk need to be carried out for Small, Medium, Larger and Catastrophic ruptures /leak and to be modeled as representative cases. Frequency/ Probability of leak per year.
 - Risk needs to be quantified in terms of Individual Risk Contours
 - Societal risk
 - F-N curves to assess against risk acceptance criteria (HSE, UK etc.).
- (xx). Plan for installation of solar power and utilization in the plant
- (xxi). Details of wildlife sanctuary/ESA within 10 km of the project site.

The proposal was therefore deferred for the needful.

Agenda No.20.4

Onshore Oil and Gas Exploration and Appraisal in CB-ONHP-2017/2 block in Jambasur Taluk, Bharuch District, Gujarat by M/s Vedanta Limited (Division Cairn Oil & Gas)- Consideration of Environment Clearance

[IA/GJ/IND2/99828/2019, IA-J-11011/98/2019-IA-II(I)]

The project proponent and their accredited consultant M/s. ABC Techno Labs India Pvt. Ltd., made a detailed presentation on the salient features of the project.

The proposal was earlier considered by the EAC in its meeting held on 21-23 January, 2020, wherein the EAC was not inclined to accept the proposals considering Ministry's Notification dated 16th January, 2020 for streamlining the project consideration and OM's/guidelines regarding appraisal of projects of category A/B, as the instant project requires appraisal under 'category B2' project by the concerned authority. However, considering the submissions of the project proponent, the EAC has agreed for deliberations, however desired for requisite information/input on the following for further consideration of the proposal: -

- (i) The Committee mentioned that Seismic exploration is important steps to search the commercially economic subsurface deposits of crude oil, natural gas and minerals by the recording, processing, and interpretation of artificially induced shock waves in the earth. The Committee noted that PP has not still completed the Seismic Exploration Study in the allocated Block. PP has to fasten the Seismic Exploration Study to achieve the objective of this Project.

- (ii) Justification/clarity from Director General of Hydrocarbon regarding categorization of the present project, requirement for PEL/PML for production, etc.
- (iii) Comments from Director General of Hydrocarbon on the justification submitted by the project proponent against Ministry's Notification dated 16th January, 2020 and permission for production activity in the PEL as per the Revenue Contract Agreement.
- (iv) Addendum to the EIA/EMP report considering all the impacts and mitigation measures for Development and Production, in all terms, as proposed by the project proponent. The PP needs to revise the Report accordingly.
- (v) All the Permission received from the concerned authorities for development and production in the PEL (i.e. from MoPNG, DGH, State Govt., etc) needs to be submitted.
- (vi) Information regarding the public consultation vis-à-vis proposed development and production and clarification from SPCB needs to be submitted.
- (vii) The Committee noted that the block has the forest area and PP has not applied for Stage I FC. In this regard, FC Division of the Ministry may be consulted regarding the requirement of forest clearance for the project due to presence of forest area in the block in view of order of Hon'ble Supreme Court (Lafarge case).

The EAC during deliberations noted that proposal has been submitted for onshore oil and Gas exploration and appraisal and public hearing has been conducted only for exploration and appraisal and 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 may not be considered for development and production. The EAC suggested the project proponent to apply at SEIAA for consideration of project under **B2 category**.

The EAC therefore return the proposal in present form.

Agenda No.20.5

Onshore Oil and Gas Exploration and Appraisal in CB-ONHP-2017/3 block in Bharuch district of Gujarat by M/s Vedanta Limited (Division Cairn Oil & Gas) - Consideration of Environmental Clearance.

[IA/GJ/IND2/99849/2019,J-11011/100/2019-IA-II(I)]

The project proponent and their accredited consultant M/s. ABC Techno Labs India Pvt. Ltd., made a detailed presentation on the salient features of the project.

The proposal was earlier considered by the EAC in its meeting held on 21-23 January, 2020, wherein the EAC was not inclined to accept the proposals considering Ministry's Notification dated 16th January, 2020 for streamlining the project consideration and OM's/guidelines regarding appraisal of projects of category A/B, as the instant project requires appraisal under 'category B2' project by the concerned authority. However, considering the submissions of the project proponent, the EAC has

agreed for deliberations, however desired for requisite information/input on the following for further consideration of the proposal: -

- (i) The Committee mentioned that Seismic exploration is important steps to search the commercially economic subsurface deposits of crude oil, natural gas and minerals by the recording, processing, and interpretation of artificially induced shock waves in the earth. The Committee noted that PP has not still completed the Seismic Exploration Study in the allocated Block. PP has to fasten the Seismic Exploration Study to achieve the objective of this Project.
- (ii) Justification/clarity from Director General of Hydrocarbon regarding categorization of the present project, requirement for PEL/PML for production, etc.
- (iii) Comments from Director General of Hydrocarbon on the justification submitted by the project proponent against Ministry's Notification dated 16th January, 2020 and permission for production activity in the PEL as per the Revenue Contract Agreement.
- (iv) Addendum to the EIA/EMP report considering all the impacts and mitigation measures for Development and Production, in all terms, as proposed by the project proponent. The PP needs to revise the Report accordingly.
- (v) All the Permission received from the concerned authorities for development and production in the PEL (i.e. from MoPNG, DGH, State Govt., etc) needs to be submitted.
- (vi) Information regarding the public consultation vis-à-vis proposed development and production and clarification from SPCB needs to be submitted.
- (vii) The Committee noted that the block has the forest area and PP has not applied for Stage-I Forest Clearance(FC). In this regard, FC Division of the Ministry may be consulted regarding the requirement of forest clearance for the project due to presence of forest area in the block in view of order of Hon'ble Supreme Court (Lafarge case).

The EAC during deliberations noted that proposal has been submitted for onshore oil and Gas exploration and appraisal and public hearing has been conducted only for exploration and appraisal and 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 may not be considered for development and production. The EAC suggested the project proponent to apply at SEIAA for consideration of project under **B2 category**.

The EAC therefore return the proposal in present form.

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

S. No.	Name and Address	Designation
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1.	Dr. J. P. Gupta	Chairman
2.	Shri R. K. Singh	Member
3.	Shri Ashok Agarwal	Member
4.	Dr. Y.V. Rami Reddy	Member
5.	Dr. T. K. Joshi	Member
6.	Dr. J. S. Sharma	Member
7.	Dr. T.Indrasena Reddy	Member
8.	Shri S.C. Mann	Member
9.	Shri Dinabandhu Gouda, CPCB	Member
10.	ShriAshokKumarPateshwary, Director, MoEFCC	Member Secretary (Petro-chemical)
MoEFCC		
11.	DrSaurabhUpadhyay	Scientist 'C'
12.	Dr. E.P. Nobi	Research Officer
