

EOGEPL/ CBM-RG (E)/ HSE/2025/6632

30th May, 2025

The Regional Director Ministry of Environment, Forest and Climate Change, Regional Office (EZ), A/3, Chandersekharpur, Bhubaneswar-751023

Essar Oil and Gas Exploration and Production Ltd Essar House- Durgapur Village & Post Office- Molandigi Block-Kanksa Durgapur Sub-Division Dist. Paschim Bardhhaman Durgapur-713212 West Bengal India

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Sub: Submission of the Six-monthly Compliance Report of the Environment Clearance, Phase-III and its amendments by Essar Oil Gas Exploration and Production Limited (EOGEPL) reg.

Ref: Environmental Clearance, Phase-III vide F. No. J-11011/491/2011-IA II (I) dated 26th February, 2013 and its amendments dated 27th November, 2017; 9 th May 2019 & 14th August, 2023.

Respected Sir/Madam,

Greetings from Essar Oil and Gas Exploration and Production Ltd.!!

We are pleased to submit the Six-monthly Compliance Report w.r.t. the stipulated conditions of prior Environment Clearance, Phase III vide F. No. J-11011/491/2011-IA II (I), dated 26th February 2013 and its amendments dated 27th November, 2017; 9th May 2019 & 14th August, 2023.

The Six-monthly Compliance Report to be considered for the period of October-24 to March-25

Thanking you for your continued support.

For Essar Oil and Gas Exploration and Production Limited

Warm Regards,

Vikram Anand Goday

Vice President & Head-Facilities

Raniganj East, CBM Project-Durgapur

Copy to:

- 1. Sub-Office, Kolkata, MoEF&CC, IB-198, Sector- III, Salt Lake City, Kolkata- 700106.
- 2. The Environmental Engineer, Durgapur Regional Office, WBPCB, Durgapur-713216.

	2017, 9 th May, 2019 & 14 th August,						2023.	
S. No				Condition				Compliance Status
2.0	that the p Surface F Block, We India sigr (CBM) fro Raniganj longitude Burdwan,	The Ministry of Environment & Forest has examined your application. It is noted that the proposal is for drilling of development & production wells along with Surface Facilities, Phase-III of CBM Block RG (E)-CBM-2001/1, Raniganj CBM Block, West Bengal by M/s Essar Oil Ltd. (E&P Division). Essar Oil Ltd. & Govt. of ndia signed a contract for exploration and production of coal bed methane (CBM) from block RG (East)-CBM-2001/1 on 26 th July, 2002. Block is located in Raniganj Coal Field, West Bengal at latitude 23°21′45″N & 23°41′12″N and ongitude 87°14′40″E & 87°28′46″E. Total block area is 500 Km² & spread in Burdwan, Birbhum and Bankura districts of West Bengal. Land requirement will be 2 acres/well site and 5 acres per GGS/MCS. Following are the co-ordinates of Block.					Compliance with. Company Name has been changed from Essar Oil Ltd. (E & P Division) to Essar Oil and Gas Exploration and Production Ltd. (EOGEPL) vide F. No. J-11011/491/2011-IA II (I) dated 27 th November, 2017 from MoEF&CC. Later on the Environment Clearance (EC) was amended for the exploration of shale gas was granted vide MoEF&CC F. No. J-11011/491/2011-IA II (I) dated 9 th May, 2019. Further, the EC also got amendment with an extended	
	S.N.		Latitude (I	N)	ı	Longitude (I	N)	validity till 25 th Feb. 2025.
	А	23°	41'	12"	87°	25'	02"	Status of the Project Presently, EOGEPL operational with 454 wells under the
	В	23°	40'	38"	87°	26′	45"	ECs, Phase- I, II & III (The area of EC, Phase- I & II are within the area of EC, Phase- III).
	С	23°	40'	00"	87°	27′	16"	Group/ Gas Gathering Station (GGS)- 6 nos.
	D	23°	39'	05"	87°	27′	09"	Main Compressor Station (MCS)- 1 no.
	E	23°	38'	50"	87°	25′	52"	Present production ~1mmscmd. As required interconnecting and 82.775 km.
	F	23°	37'	14"	87°	25'	33"	transportation pipeline network with a diameter range of 4"-18" have been laid
	G	23°	34'	47"	87º	26′	17"	
	Н	23°	32'	51"	87°	28'	46"	
	I	23°	31'	45"	87°	28'	46"	
	J	23°	30'	00"	87°	27′	35"	
	К	23°	29'	15"	87°	26′	45"	
	L	23°	27'	35"	87°	27'	25"	
	М	23°	26′	35"	87°	27′	25"	
	N	23°	23'	00"	87°	26′	10"	
	0	23°	22'	10"	87°	26′	00"	
	Р	23°	21'	45"	87°	25'	00"	
	Q	23°	24'	15"	87°	20′	00"	
	R	23°	27'	30"	87°	16′	30"	
	S	23°	30'	00"	87º	14'	40"	
	Т	23°	32'	10"	87°	15′	45"	
	U	23°	35'	10"	87°	18'	00"	
	V	23°	37'	00"	87º	20'	00"	
	W	23°	39'	45"	87°	25'	20"	

		2023.
	Out of 500 Km² block area, phase — III project is proposed in 190.3 Km² block area. Out of 180.5 Km² area falls within the existing CBM block in Burdwan district, WB with an additional 9.8 Km² area located outside the block abutting the western boundary. No national park/sanctuary is located within 10 Km radius of the block. No diversion of forest land is involved. River Damodar and River Ajay are flowing in the block. Total project cost is Rs. 2866 Crore. Following activities are proposed:	
	 i) Total no. of wells-650 (each well pad will have one vertical and several directional wells, optimized for the location and geology of the well pad) with the target depth of ~2000 m (618 wells in 180.5 Km² of block area and 32 wells in 9.8 Km² of additional area). Out of the total 650 wells, 107 wells falling within the Durgapur Municipal Corporation Boundary. ii) 8 Nos. of Group Gathering Station (GGS) with the capacity 0, 45 MMSCMD each and 1 No. of Main Compressor Station (MCS) with capacity 3.0 MMSCMD. iii) Interconnecting and transportation pipeline network with a diameter range of 4"-18". iv) Total estimated production of CBM from the proposed project is 5 million m³/day. Each well is estimated to generate a peak production of 15,000 m³/day. 	
3.0	Air emissions from DG sets will be dispersed by providing adequate stack height. Flaring will be done as per the CPCB guidelines. Fresh water requirement will be 125 m³/well during drilling and 1 m³/day for GGS/MCS operation. Water based mud (WBM) and synthetic based mud will be used. Effluent comprising mud will be treated in compact effluent treatment plant (ETP) comprising equalization, chemical quagulation, flocculation and clarification by settling. Residual unusable mud will be collected in lined pits and solar evaporated. Remaining mud will be reused in the drilling process. Produced water will be generated around 50 m³/day and treated through reverse osmosis (RO) before utilizing for agriculture, domestic purposes, preparation of mud. Drill cutting (DC) will be separated from water based mud (WBM) and washed properly and unusable drilling fluids (DF) will be disposed off in well-designed lined pit with impervious liner for solar drying. Disposal of drill cuttings and drill mud will be carried out in accordance with the GSR 546 (E) dated 30 th August, 2005. Used oil will be sent to authorised recyclers.	Green DG sets are in used confirming to CPCB guidelines providing adequate stack height. Flare stack height are 30 meter and 50 meter for GGSs and MCS respectively. Generated produced water is treated through comprehensive RO Units, thereby treated water is reused for project and operational activities eliminates the need of fresh water in drilling and other related activities. Only water based mud is used for drilling. Effluent comprising mud is treated through either central Drilling Waste Processing Plant or Mobile Effluent Treatment Plant; both are systemizing through RO Units for final treatment of water. Drilling mud is reused in the drilling process, where residual unusable mud is collected in lined pits and solar evaporated Produced water generated an average ~ (17 – 20) m³/well/day is treated through RO Units. The treated water is reused in drilling for preparation of mud and other activities. The balance treated water is discharge into local stream for agricultural purposes. Non-hazardous drill cuttings are used for well pad development and unusable drilling fluid is disposed off in well-designed lined pit with impervious liner for solar drying. EOGEPL is in compliance with the GSR 546 (E) dated 30th August, 2005. Used oil is sent to authorized recycler.
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5.0	The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 30^{th} meeting held during $15^{th}-16^{th}$ December, 2011 and reconstituted Expert Appraisal Committee (Industry) in its 2^{nd} meeting held during $29^{th}-31^{st}$ October, 2012 respectively.	Noted.
6.0	Public Hearing/ Public Consultation meeting conducted by the W.B. Pollution Control Board on 24 th May, 2012.	Noted.
7.0	The Ministry of Environment and Forest hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 subject to strict compliance of the following specific and general conditions.	Noted.
Α	Specific Conditions	
I.	Compliance to all the environmental conditions stipulated in the environmental clearance letter nos.J-11011/660/2007-IA-II(I) dated 6 th May, 2008, J-11011/351/2009-IA-II(I) dated 23.09.2011 and its subsequent amendment shall be satisfactorily implemented.	Compliance to the environmental conditions stipulated in the Environment Clearance (EC) vide letter no. J-11011/660/2007-IA-II(I) dated 6th May, 2008, J-11011/351/2009-IA-II(I) dated 23.09.2011 and its' amendment dated 18th June 2012 are being satisfactorily implemented. No further activities are being undertaken with respect to the above-mentioned ECs and therefore no further change in status.
II.	Compensation for the land acquisition to the land oustees, if any, and also for standing crop shall be paid as per the National Resettlement and Rehabilitation Policy (NRRP) 2007 or State Government norms. It may be ensured that compensation provided shall not be less than the norms of the NRRP, 2007	Land acquisition is conducted directly with the land owners and the compensation is paid as per the prevailing market rate and mutual consent. There are no involvement of Rehabilitation and Resettlement.
III.	Prior permission from the Ministry of Defence shall be obtained regarding impact of proposed plant on Panagarh, if any.	Prior permission (NOC) has been obtained from the Ministry of Defence vide letter no. Air HQ/S17726/4/ATS(PC-CML-VIII) dated 24.05.2012 for construction of Gas Gathering Station (GGS) and Main Compressor Station (MCS). The aerial distance between nearest facility, GGS-4 and Panagarh Air Force Station is around 3 km. and MCS is located at a distance around 9 km. from Panagarh Air Force Station. We don't have any other major installation in proximity to Panagarh Airbase which could have any such impact.
IV.	As proposed, no forest land shall be used for the proposed facilities	No forest land has been used for the well pads and surface facilities.
V.	Ambient Air Quality shall be monitored near the closest human settlements as per the National Ambient Air Quality Emission Standards (NAAQES) issued by the Ministry vide G.S.R No. 826(E) dated 16 th November, 2009 for PM10, PM2.5, SO2, NOx, CO, CH4, VOCs, HC, Non-Methane HC etc. Efforts shall be made to improve the ambient air quality of the area.	Monitoring of Ambient Air Quality (AAQ) is conducted through NABL accredited laboratory by collecting samples from well sites, facilities near the closest human settlements as per the Ambient Air Quality Standards (NAAQS) issued by the Ministry vide G.S.R No. 826(E) dated 16th November, 2009 for PM10, PM2.5, SO2, NOX, CO, CH4, VOCs, HC, Non-methane HC etc. The summary of the report of AAQ monitoring for last
		six months i.e. Oct-24 to Mar-25 enclosed in <u>Annexure</u> J. where all the monitored parameters found within the stipulated limit.
		Efforts to improve the AAQ of the area is implemented through green belt development, water sprinkling and schedule maintenance of the equipments.
VI.	Mercury shall also be analysed in air, water and drill cuttings twice during drilling period	Mercury is monitored through NABL accredited laboratory in air, water and drill cuttings.

	2017, 3 May, 2013 & 14 August,	
		Summary of the analysis result of ambient air quality (refer to Annexure I), RO treated produced water quality (refer to Annexure II) and toxicology analysis of drill cuttings (refer to Annexure III). The analysis reports as mentioned above reveals that
		the mercury concentration is in below detection limit (BDL).
		The overhead flaring system has been installed as per OISD Standards/Guidelines. The flare stack height is 30 m. for GGS and 50 m. for MCS.
		The measures delineated in the EIA/EMP are being maintained to prevent fire hazards.
		The following measures have been implemented.
	The flare system shall be designed as per good oil field practices and Oil Industry Safety Directorate (OISD) guidelines. The company shall take necessary	 Installation of electrical equipment in accordance with the approved hazardous zone classification by the Directorate General of Mine Safety (DGMS).
VII.	measures to prevent fire hazards and soil remediation as needed. At the place of ground flaring, the flare pit shall be lined with refractory bricks and efficient burning system. In case of overhead flare stacks, the stack height shall be provided as per the regulatory requirements and emission from stacks shall meet the MoEF/CPCB guidelines.	 Major facilities such as Gas Gathering Station (GGS), Main Compressor Station (MCS), Warehouses etc. are equipped with comprehensive fire hydrant system.
		 Dry chemical fire extinguishers are strategically placed at all well sites.
		 Online methane gas analysers (CH₄) and portable multi gas detectors are utilized for work zone monitoring, capable of detecting CH₄, O₂, CO, H₂S.
		 Flame proof lighting fixtures, push buttons and switches are employed at drill site and facilities.
	The company shall make the arrangement for control of noise from the drilling activity, compressor station and DG sets by providing necessary mitigation	Green DG sets, Gas Generator Sets are in used confirming to CPCB guidelines of acoustic enclosure and providing of adequate stack height.
VIII.	measures such as proper acoustic enclosures to DG sets and meet the norms notified by the MoEF. Height of all the stacks/vents shall be as per the CPCB guidelines.	Ambient noise level monitoring by collecting samples is conducted both during day and night time in accordance to the schedule. The summary of the monitoring result of ambient noise level enclosed in Annexure IV .
		Complied with.
IX.	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 30 th August, 2005.	Drill cuttings (non-toxic)) and drilling fluids (non-hazardous "Water Base Mud") are collected in HDPE lined pit at site. After that at treatment site, it is stored in RCC pit for further treatment through Drilling Waste Processing Plant.
		After treatment, the solid waste, drill cutting/dry cutting is used for well pad development.
X.	Total fresh water requirement should not exceed 125m3 for each well during drilling phase 1 m3/day for GGS/MCS. Prior permission shall be obtained from the Competent Authority and a copy submitted to the Ministry's Regional Office	RO treated produced water is recycled/ reused in project activities and operations., thereby eliminating the need for fresh water in drilling and other related activities.
	at Bhubaneswar	Ground water is utilized solely for potable purposes, with the necessary permissions already obtained from State Water Investigation Directorate (SWID), Govt. of

	2017, 3 May, 2013 & 14 August,	
		west Bengal. The copies of permissions received from District Level Ground Water Resource Development Authority, Burdwan enclosed in Annexure V.
XI.	During well drilling, wastewater should be segregated into waste drilling fluid and drill cuttings. Drill cutting should be stored onsite impervious HDPE lined pit for solar evaporation and drying. Effluent should be properly treated and treated effluent should conform to CPCB standards. As proposed, produced water should be treated by reverse osmosis and reuse in drilling of new wells, fire hydrant system and other beneficial purposes. Domestic effluent should be disposed off through septic tank followed by soak pit.	Drilling wastewater (based on non-hazardous "Water Base Mud") & drill cuttings (non-toxic) collected in onsite impervious HDPE lined pit. After that at treatment site, it is stored in RCC pit for further treatment through central Drilling Waste Processing Plant, where drilling fluid and drill cuttings are separated & treated. The treated effluent quality analysis report indicated that the analysed parameters are within the stipulated limit of CPCB standard notified vide GSR.546 (E) dated 30 th August, 2005 for onshore discharge of Oil Drilling and Gas Extraction Industry. The summary of the analysis report enclosed in Annexure VI. The pit residual is solar evaporated and dry.
	uisposed off through septic tank followed by soak pit.	Produced water is treated through Reverse Osmosis (RO) System (capacity 8100 cu. m. per day) and reused for drilling of new wells, fire hydrant and other beneficial purposes. The summary of the RO treated water analysis enclosed in Annexure II .
		Domestic effluent is disposed of through septic tank followed by soak pit.
		The ground water quality monitoring report carried out in the month of Nov-24 enclosed in <u>Annexure VII</u> . All the monitoring parameters observed within the permissible limit except few locations the Iron (as Fe) concentration found above the drinking water permissible limit, i.e. 1 mg/L.
XII.	Ground water quality monitoring should be done to assess if produced water	The ground water quality monitoring is conducted half- yearly basis at pre-monsoon (May month in every year) and post-monsoon (November month in every year), where the last ground water analysis report meaning the May-24 report was indicated with the Iron (as Fe) concentration within the stipulated limit.
	storage or disposal has any effect.	The topographical characteristic of the Raniganj CBM Block lies in the Raniganj Coalfield predominantly enriched with laterite soil particularly in the central and southern parts where the Raniganj Formation consisting of coal seams, shales and sandstone refers to the baseline condition of the area. Also the area gradient is towards the East, so the drainage system like river, nallah, watershed etc. are flowing towards the East. In consequence of the surface runoff during monsoon may aggravate the Iron (as Fe) concentration in the ground water by percolation through the open wells, resulting seasonal variation of Fe concentration.
XIII.	Drilling wastewater including drill cuttings, wash water shall be collected in disposal pit lined with HDPE lining, evaporated or treated and shall comply with the notified standards for on-shore disposal on land. Proper toxicological analysis shall be done to ensure there is no hazardous material. Copy of toxicological analysis shall be submitted to Ministry's Regional Office at Bhubaneswar.	Drilling wastewater (based on non-hazardous "Water Base Mud") including drill cuttings (non-toxic) are collected in onsite impervious HDPE lined pit. After that at treatment site, it is stored in RCC pit for further treatment through Drilling Waste Processing Plant, where drilling fluid and dry cutting/drill cutting are separated & treated. The treated effluent quality analysis report indicated that the parameters are comply with the notified standards vide GSR.546 (E)

	2017, 3 may, 2013 a 14 August,	
		dated 30 th August, 2005 for onshore discharge of Oil Drilling and Gas Extraction Industry. The summary of the analysis report enclosed in Annexure VI .
		Toxicological analysis is done by sample collection of drill cuttings/sludge followed by the analysis report summarized and enclosed in <u>Annexure III</u> . The analysis report reveals that all the tested parameters are within the stipulated limit.
		After treatment, the solid waste, drill cutting/dry cutting is used for well pad development.
XIV.	Water base drilling mud or synthetic based mud shall be used	Only water base mud is used for drilling.
		The necessary preventive measures have taken in place to prevent fire hazards, oil spill and soil remediation as follows.
		 Installation of electrical equipment in accordance with the approved hazardous zone classification by the Directorate General of Mine Safety (DGMS).
	The company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation.	Major facilities such as Gas Gathering Station (GGS), Main Compressor Station (MCS), Warehouses etc. are equipped with comprehensive fire hydrant system
XV.		 Dry chemical fire extinguishers are strategically placed at all well sites.
		 Fixed and Portable type multi gas detectors are utilized for work zone monitoring, capable of detecting CH₄, O₂, CO, H₂S.
		 Flame proof lighting fixtures, push buttons and switches are employed at drill site and facilities.
		 Impervious lining, secondary containment and spill kits are deployed wherever there is a risk of soil contamination.
		There is no ground flaring at site. The overhead flaring stack with knockout drums have been installed to minimize gaseous emissions during operation.
		The necessary preventive measures have taken in place to prevent fire hazards and soil remediation as follows.
		 Installation of electrical equipment in accordance with the approved hazardous zone classification by the Directorate General of Mine Safety (DGMS).
XVI.	The company shall take necessary measures to prevent fire hazards and soil remediation as needed. The stacks of adequate height shall be provided to flare the gas, if required, to minimize gaseous emissions and heat load during flaring	 Major facilities such as Gas Gathering Station (GGS), Main Compressor Station (MCS), Warehouses etc. are equipped with comprehensive fire hydrant system
		 Dry chemical fire extinguishers are strategically placed at all well sites.
		 Fixed and Portable type multi gas detectors are utilized for work zone monitoring, capable of detecting CH₄, O₂, CO, H₂S.
		Flame proof lighting fixtures, push buttons and switches are employed at drill site and facilities.

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		 Impervious lining, secondary containment and spill kits are deployed wherever there is a risk of soil contamination.
		The overhead flaring stack with heights of 30 meter for GGS and 50 meter. for MCS have been installed to flare the gas, if required, minimizing gaseous emissions and heat load during flaring.
XVII.	To prevent underground coal fire, preventive measures shall be taken for ingress of ambient air during withdrawal inside the coal seams by adopting technologies including vacuum suction. Gas detectors for the detection of CH ₄ and H ₂ S shall	There is no chance of ingress of ambient air, as the well is arrested with drive head and operational through Progressive Cavity Pump.
	be provided.	Fixed and Portable type multi gas detector is present for the detection of CH_4 , H_2S , O_2 and CO at Gas Gathering Station and production sites.
XVIII.	The design, material of construction, assembly, inspection, testing and safety aspects of operation and maintenance of pipeline and transporting the natural gas/oil shall be governed by ASME/ANSI B 31.8/B31.4 and OISD standard 141. Pipeline wall thickness and minimum depth of burial at river crossing and casings at rails, major road crossings should be in conformity with ANSI/ASME requirements.	All the surface facilities and pipelines have been designed and installed as per the ASME/ANSI B 31.8 and OISD Standards 141/226. The inspection, testing and safety aspects of operation and maintenance of pipeline and transportation the natural gas is conducted as per PNGRB Guidelines and OISD Standards.
XIX.	The company shall develop a contingency plan for H_2S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H_2S detectors in locations of high risk of exposure along with self-containing breathing apparatus.	According to the analysis of gas tapped from the wells, H ₂ S is not present. All the necessary safety measures have been implemented in accordance with the Emergency Response Plan (ERP). Multi Gas detectors are employed at drilling and production sites to monitor the presence of gases in the work zone. All workforce is ensured with the standard Personal Protective Equipments (PPEs) in line. Additionally, self-contained breathing apparatus (SCABA) are provided as needed to ensure safety.
XX.	Adequate well protection system shall be provided like Blow Out Preventer (BOP) or diverter systems as required based on the geological formation of the blocks.	Hydrostatic pressure of Coal Bed Methane (CBM wells are typically less than 1.5 psi/m. Nevertheless, due to the hydrostatic pressure and the sensitivity of the wells, a Blow Out Preventer (BOP) or Diverter system is adopted at the well head during drilling operation. Additionally other well control measures have been adopted, including through pre-well planning and drilling fluid logging to maintain appropriate hydrostatic pressure and ensure well safety.
XXI.	The top soil removed shall be stacked separately for reuse during restoration process.	During drilling operation, top soil is stacked separately and distributed over the designated areas for green belt development at facilities and well pads.
XXII.	Emergency Response Plan shall be based on the guidelines prepared by OISD, DGMS and Govt. of India. Recommendations mentioned in the Risk Assessment & Consequence Analysis and Disaster Management Plan shall be strictly followed.	The Raniganj (East) CBM project activities & operations conducted by EOGEPL is adhere to Emergency Response & Disaster Management Plan (ERDMP) approved by the authorized agency 'SEVA' of Petroleum & Natural Gas Regulatory Board (PNGRB). The approved ERDMP certificate vide Certificate No.: SEVA/DMP/27/23 enclosed in Annexure VIII.
XXIII.	Project proponent shall comply with the environment protection measures and safeguards recommended in the EIA/EMP/risk analysis report/disaster management plan	Environmental protection measures and safeguards recommended in EMP / Risk Analysis / Disaster Management Plan are being implemented and maintained.

XXIV.	The company shall take measures after completion of drilling process by well plugging and secured enclosures, decommissioning of rig upon abandonment of the well and drilling site shall be restored in original condition. In the event that no economic quantity of hydrocarbon is found a full abandonment shall be implemented for the drilling site in accordance with the applicable Indian Petroleum Regulations.	Till now no such full abandonment is done for any of the well site, however standard practices as per OISD and Indian Petroleum Regulations are being followed for plugging and securing the drilled wells and it is taken into production process. Upon full abandonment/closure of wells/site, the site shall be restored in accordance with applicable Indian Petroleum Regulation.
XXV.	Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.	During joining, employees are undergone with preemployment medical examination. The occupational health surveillance is conducted in periodic intervals as stipulated by Directorate General of Mine Safety (DGMS) under Mine Rule 29 B (Form – O). The certified copy of the medical examination for last six month, i.e. October-2024 to till date enclosed in Annexure IX.
XXVI.	Company shall adopt Corporate Environment Policy as per the Ministry's O.M.No.J-11013/41/2006-IA II(I) dated 26 th April, 2011 and implemented.	Environment Policy has been developed and being implemented & maintained. A copy of the Environment Policy enclosed in <u>Annexure X</u> .
	All the commitments made to the public during the Public Hearing/Public Consultation meeting held on 24 th May, 2012 shall be satisfactorily implemented	commitments made to the public during Public Hearing/ Public Consultation meeting held on 24 th May, 2012 are being satisfactory implemented by complying/ in process of complying with the commitments.
XXVII.	and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar.	In this connection, during the last Financial Year (FY), i.e. FY 2024-25, EOGEPL judiciously utilized the amount INR 2,24,41,181 towards socio-welfare development in key areas such as Health, Education, Empowerment, Sport Events and Infrastructure Development in the villages surrounding the project area.
XXVIII.	At least 5% of the total cost of the project should be earmarked towards the enterprise social commitment and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program shall be ensured accordingly in a time bound manner.	EOGEPL has been spending on the enterprise social commitment on various activities in accordance with applicable regulatory requirements and based on existing policies of the company and socio-economic requirement in and around the project area. During the period of Oct-24 to Mar-25, EOGEPL has spent an amount of INR 2,12,97,044 (Annexure XI) judiciously towards enterprise social commitment in thrust areas like Health, Education, Sports and Cultural Events, Infrastructure Development etc. for the villages surrounding of the project area. From the beginning to till Mar-25, EOGEPL has spent an approaching amount in more than INIR 10.00 Grosse in
XXIX.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	expenditure amounting more than INR 10.69 Crores in total towards enterprise social commitment. Compliance with. EOGEPL prefer to engage local labour for the CBM project activities. However, all the necessary infrastructure and facilities like porta-cabins, mobile toilets with septic tank & soak pit, safe drinking water, medical health care etc. are provided. The outside crews are accommodated to the nearby localities with all such amenities of living.

В	General Conditions	
I.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and any other statutory authority.	EOGEPL strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and Statutory Authority always. For example, Consent to Establish obtained for the drilling of wells, facilities, pipelines etc. and for the operations of wells, facilities and pipelines Consent to Operate also obtained from SPCB.
		The EC, Phase III allowed EOGEPL to drill 32 wells in additional area of 9.8 Sq. KM, where 17 wells have been drilled with marginal shifting of area coordinates.
		a. Due to absence of physical boundary pillars in the preliminary development phase of the project, spread in the open land covering the natural landscapes and habitats posing difficulty in identifying exact area boundary.
		b. Placement of the CBM wells has the flexibility to move 200-300meter basis subsurface geological data.
11.	No further expansion or modification in the project shall be carried out without prior approval of the Ministry of Environment & Forests. 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 to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	c. During this process the project team may have shifted the actual well location to accommodate various site constraints like agricultural land, hamlet, township, waterbody, roads etc. resulting in marginally crossing the permitted boundary.
		Of these 17 wells, 12 wells have been regularized through the allotment of 7 sq. km. additional area by MoPNG and the balance wells within 16 sq. km. are shut. Whereas it is also to mention that the drilled well quantity for additional area not breached, i.e. 32 wells. At present, total operational wells are 454 under the ECs of Phase- I, II & III together with which is far less against the EC, Phase- III permitted quantity i.e., 650 wells included with the 32 wells of additional area. Moreover, the present production capacity is ~1mmscmd against the permitted quantity of 5mmscmd. Therefore, the overall pollution load w.r.t. the EC is maintained well within the permissible limit.
III.	The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000 as amended subsequently. Prior approvals from Chief Inspectorate of Factories,	Compliance with. EOGEPL complying with the directions/guidelines/approval of Oil Mines Regulations
	Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable.	2017, Oil Industry Safety Directorate, Directorate General of Mine Safety and Petroleum and Explosives Safety Organization for CBM operation.
IV.	The project authorities must strictly comply with the rules and regulation with regarding to handling and disposal of Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 wherever applicable. Authorization from the State Pollution Control Board must be obtained for collections/treatment/storage/ disposal of hazardous wastes.	Compliance with. As per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 EOGEPL obtained Hazardous Waste Authorization vide Memo No. – 190/2S(HW)-2449/2008 dated 28.12.2023 with validity upto 31.10.2028. Additionally, the annual return of hazardous waste is submitted to West Bengal

		Pollution Control Board (WBPCB) through online portal time to time.
V.	The overall noise levels in and around the plant area shall be kept within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75dBA (daytime) and 70 dBA (night time)	Compliance with. Acoustic DG Set and Gas Generator Set are used in the sites. Ambient noise level monitoring is conducted by collecting samples both during day time and night time in accordance to the schedule. The summary of the ambient noise level monitoring result enclosed in Annexure IV.
VI.	A separate Environmental Management Cell equipped with full-fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.	A dedicated Environment Management Cell (EMC) is operational for the implementation of Environment Management Plan. Additionally, Environmental Monitoring is conducted by M/s Scientific Research laboratory, Kolkata, which is recognized by Central Pollution Control Board (CPCB) and accredited by the National Accreditation Board for Testing and Calibration Laboratories (NABL).
i		The organogram of EMC enclosed in Annexure XII.
VII.		Complied with. The expenditure amounting INR 2,01,80,458 (CAPEX) and INR 1,90,86,384 (OPEX) have been spent towards environment pollution control measures for the period Oct-24 to Mar-25 enclosed in Annexure XIII.
	As proposed, Rs.2.80 Crore earmarked for environment pollution control measures shall be used to implement the conditions	This is also to inform that EOGEPL has spent INR 3,70,76,848 (CAPEX) and INR 5,17,14,792 (OPEX) towards environment pollution control measures throughout the FY 2024-25.
		From the beginning to till Mar-25, EOGEPL has spent INR ~19.64 Crores (CAPEX) and INR ~47.5 Crores (OPEX), in total INR ~67.14 Crores towards the environment pollution control measures.
VIII.	The Regional Office of this Ministry/Central Pollution Control Board/State Pollution Control Board will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Six-monthly compliance report along with the supportive annexures are submitted on regular basis, last submitted on 31.12.2024.
IX.		Complied with.
	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	EOGEPL intimated the last amendment of the Environment Clearance (EC), i.e. validity extension of the EC, Phase III dated 14.08.2023 to the concerned Panchayat vide Ref. No. EOGEPL/CBM-RG(E)/EC-Int./2023 dated 21.08.2023 and uploaded it on the website of the company also.
X.	The project proponent shall upload the status of compliance for the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF, the respective Zonal Office of CPCB and the WBPCB. The criteria pollutant levels namely; PM ₁₀ , PM _{2.5} , SO ₂ , NOx, HC (Methane & Non-methane), VOCs (ambient levels as well as stack emissions) or	The compliance report of environment clearance conditions including results of monitored data is uploaded on EOGEPL website periodically and send it to the Sub-Office of MOEF&CC and WBPCB at regular intervals. The screenshot of portal uploading enclosed in Annexure XIV .
	critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	The ambient air quality monitoring is carried out as per the National Ambient Air Quality Standards (NAAQS) issued by CPCB vide G.S.R No. 826(E) dated 16th November, 2009. The criteria pollutant levels namely;

		PM _{2.5} , SO ₂ , NOx, HC (Methane & Non-methane), VOCs (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects are monitored as per the schedule and displayed at the convenient location near the main gate of the company in the public domain. The display board of environmental information refers to Annexure XV.
XI.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF, the respective Zonal Office of CPCB and the WBPCB. The Regional Office of this Ministry/CPCB/WBPCB shall monitor the stipulated conditions.	The six-monthly report on the status of the compliance of the stipulated environmental conditions including results of environmental monitored data is submitted through e-mail to the Sub-Office Kolkata, MoEF&CC and hard copy is submitted to Durgapur Regional Office, WBPCB time to time. (Refer Annexure XVI)
XII.	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MoEF by e-mail	The Environmental Statement in Form-V (FY 2023-24) is submitted to the Durgapur Regional Office, West Bengal Pollution Control Board in hard copy. The official receiving of the submission enclosed in Annexure XVII. The Form V has also been uploaded on the website of EOGEPL. The screenshot of the portal enclosed in Annexure XVIII. Apart from that the Form V (FY 2023-24) also been submitted to Sub-office Kolkata, MoEF&CC by e-mailing of the soft copy on 06.09.2024. The screenshot of the same enclosed in Annexure XIX .
XIII.	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 WBPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office.	Complied with.
XIV.	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Complied with. The project is in operation stage with the Consent to Operate issued by the West Bengal Pollution Control Board.
8.	The Ministry may revoke or suspend the clearance .if implementation of any of the above condition is not satisfactory	Noted.
9.	The ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	Noted.
10.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act,1981, the Environment (Protection) Act.1986, Hazardous Waste	Noted.

	(Management, Handling and Trans-Boundary Movement) Rules, 2008 and the Public Liability Insurance Act ,1991 along with their amendments and rules.				
		Ref.: Am	endment of EC vide F	. No. J-11011/491/2011-IA II (I)	dated 27 th November, 2017
2	The Ministry had earlier issued environmental clearance for development & Production Wells along with Surface Facilities, Phase-III of CBM Block RG (E)-CBM-2001/1, Raniganj CBM Block, West Bengal in favour of M/s Essar Oil Limited (E&P Division) vide letter dated 26 th February, 2013.				Noted.
3	Division, wl subsidiary	hich has now be namely M/s Es nd thus necessit	een transferred to a sar Oil and Gas Exp	pration and Production (E&P) newly created wholly owned ploration and Production Ltd equisite approvals in the name	Complied with.
4	environmer	ntal clearance gr		on Certificate' for transfer of ed 26th February, 2013 in the roduction Limited.	Noted.
5	affidavit to	abide by the ter lated 26th Febr	ms and conditions st	on Limited has submitted an ipulated in the environment the name of M/s Essar Oil	Noted.
6	As per the relevant provisions of the EIA Notification, 2006, the environmental clearance to the project 'Development & Production Wells along with Surface Facilities, Phase-III of CBM Block RG(E)-CBM-2001/1, Raniganj CBM Block, West Bengal granted by the Ministry vide letter No. J-11011/491/2011-IA-II dated 26 th February, 2013 is hereby transferred from M/s Essar Oil Limited (E&P Division) to M/s Essar Oil and Gas Exploration and Production Limited, on the same terms and conditions under which prior environmental clearance was initially granted and for the same validity period.				Noted.
7	This issues with the prior approval of the Competent Authority.			Noted.	
		Ref.:	Amendment of EC vio	de F. No. J-11011/491/2011-IA-	II (I) dated 9 th May ,2019
2	The proposal has been submitted for extension of validity of the said environmental clearance for a period of 3 years, and also amendment therein, with the details as under: -				
	S. No	Para of EC	Details as per the EC	To be revised/read as	
	1	2 (i)	Total no. of wells- 650 nos.	Out of total 650 wells. 20 wells proposed for exploration of shale gas	Noted.
	2	2 (i)	With the target depth of ~ 2000 m	With the target depth of ~ 2000 m of CBM wells and ~3000 m of Shale Gas Well	

3	the Min recomm validity	nistry in its mee nended for the	eting held o proposed a	n 29-31 Janua mendment as	aisal Committee (Industry-2) in ary, 2019. The Committee has above, and also extension of od of three years i.e. up to 26 th	Noted
4	Climate enviror	Change hereby	accords ap e dated 26tl	proval to the h February, 20	etry of Environment, Forest and proposed amendment in the 13, and extension of its validity 14, 2023.	
5		er terms and co			ne environmental n unchanged.	Noted.
		Ref.:	: Amendme	nt of EC vide I	F. No. IA- J-11011/491/2011-IA	-II(I) dated 14 th August, 2023
2	above p Ministr project Phase- Durgap Limited 11011/	oroposal for ame y vide F. No. J-12 titled "Develop III of CBM Bloc ur, West Bengal ". The project	endment in 1011/491/20 ment & Pro k RG (E)–CE l by M/s Ess was giver	the environm 011-IA-II(I) dat oduction Well: 3M-2001/1 lo sar Oil and Ga n extension	te change has considered the ental clearance granted by the ted 26 th February, 2013 for the s along with Surface Facilities, cated at Raniganj CBM Block, as Exploration and Production vide letter dated F. No. J-three years which was valid up	Noted
3		Para of EC issued by MOEF&CC		To be revised/re ad as	for extension in the validity of Justification / Reason	
	01	Para-4 of EC vide F. No. J11011/491/ 2011-IA-II(I) dated 9 th May ,2019	Based on the recomm endatio n of the EAC, the Ministry of Environ ment, Forest and climate Change hereby accords approva I to the	Extension of validity of the Environm ent Clearance (EC) vide F. No. J-11011/49 1/2011-IA-II(I) dated 9th May, 2019 for a period of another 01 year i.e. up to	Lagging Indicator: EOGEPL has drilled only 193 CBM wells out of the planned 630 CBM wells under phase III development. Drilling campaign was temporarily stopped in 2017, due to delay in pipeline connectivity poising a significant constrain to evacuate the CBM gas produced. The pipeline commissioning timeliness further got extended due	Noted.

		1		1
	propose d amend ment in the environ ment clearanc e dated 26 th Februar y ,2013, and extensio n of its validity for a period of 3 years i e. up to 26 th Februar y ,2023.	25 th February ,2024, under the notificatio n–S.O. 1807 (E), dated 12 th April 2022 of the Ministry.	the pandemic situation created by COVID 19 Coronavirus and the nation-wide lockdown. Non availability of the evacuation pipeline and the pandemic has badly affected our operations and delayed the planned development activities Leading Indicator: Urja Ganga Pipeline (UGPL) was commissioned and connectivity to our CBM block was established. Connectivity with the national gas grid has ensured seamless evacuation of the entire CBM gas Produced from the block since June 2021. EOGEPL is now geared up to commence major developmental activities to enhance gas production from the Raniganj CBM block.	
			ML valid till May, 2032. CBM contract valid till May,	
			2041.	
4		nsion has bee F. No. J-11011	n already been given to the /491/2011-IA-II (I) dated 9th	Noted.
5.	working within the p the ban of Single Us Notification publish along with photogi	and create a project area as e Plastic in orded by MOEFCC aphs on the nonthly compli	nsion of EC till 25th February,	EOGEPL conducted the awareness campaign "Ban of Single Use Plastic" for the period of. Oct-24 to Mar-25 refers to Annexure XX.

6	Based on recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords approval to the proposed amendment for extension in the validity of environmental clearance dated 26 th February, 2013 as stated above, for the project Development and Production Wells along with Surface Facilities Phase - III of CBM Block RG (East) - CBM- 2001/1, Raniganj CBM Block, West Bengal by M/s. Essar Oil and Gas Exploration and Production Ltd.	Noted.
7	Upon examination in the Ministry, it is concluded that as per S.O. 1807 (E), dated 12th April 2022, the validity of EC of instant project shall be 10 years and as per SO 221 (E) dated 18.01.2021 the period from the 1st April, 2020 to the 31st March, 2021 shall not be considered for the purpose of calculation of the period of validity of EC granted under the provisions of this notification in view of outbreak of Corona Virus (COVID-19) and subsequent lockdowns. Hence the validity of EC is till 25th February, 2024. Further, as per S.O. 1807 (E), dated 12th April 2022 the validity of EC can be extended for one more year. As per request for extension made by PP and recommendation of EAC, the validity of EC shall be till 25th February, 2025. However, all other terms and conditions mentioned in EC issued vide. F No. J-11011/491/2011-IA-II (I) dated 26th February, 2013 shall remain unchanged.	Noted.
8	This issues with approval of the competent authority.	Noted.

ANNEXURE I

Name of L	ocation				M	CS					GGS	S- 01		
Mon	ith													
Parameter	UoM	NAAQS	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
		LIMIT												
PM _{2.5}	μg/m³	60	30.51	33.59	51.69	48.48	47.70	46.25	33.50	32.15	39.76	47.38	47.58	50.34
PM ₁₀	μg/m³	100	68.78	75.08	89.64	93.73	87.57	88.94	70.51	72.81	78.73	89.68	90.89	95.64
Nitrogen Dioxide	μg/m³	80	29.33	32.10	33.17	34.07	34.52	32.89	28.51	33.13	32.83	35.20	33.51	32.44
Sulphur Dioxide	μg/m³	80	4.18	4.25	4.36	4.86	4.80	4.72	4.25	4.47	4.58	5.18	5.08	4.92
Carbon Monoxide	mg/m³	2	0.412	0.464	0.460	0.504	0.492	0.504	0.430	0.472	0.476	0.498	0.524	0.522
Hydrocarbon	mg/m ³	NIL	1.58	2.48	2.28	2.18	1.89	1.89	1.64	1.87	1.76	2.14	1.62	2.14
Mercury	mg/m ³			< 0.002			< 0.002			< 0.002			< 0.002	
Hydrocarbon as Non Methane	mg/m ³	NIL	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
VOC's	μg/m³			3.52			3.39			3.08			3.18	
Benzo(a)Pyrene	ng/m³	1		0.36			0.42			0.32			0.36	
Ammonia	μg/m³	400		36.23			32.34			29.08			29.12	
Ozone	μg/m³	180		34.28			38.45			33.19			34.78	
Lead	μg/m³	1		0.10			0.11			0.09			0.08	
Nickel	ng/m³	20		8.72			11.32			8.24			8.49	
Arsenic	ng/m³	6		1.76			1.89			1.76			1.62	
Benzene	μg/m³	5		2.06			1.98			1.93			1.76	

Name of L	ocation				GGS	S- 02					PARULIA	1	
Mon	ıth												
Parameter	UoM	NAAQS LIMIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
PM _{2.5}	μg/m³	60	31.52	42.31	41.90	51.30	47.64	56.67	49.96	43.59	46.91	45.42	48.02
PM ₁₀	μg/m³	100	64.18	84.59	81.47	95.75	91.37	95.40	90.31	75.61	91.79	85.88	93.28
Nitrogen Dioxide	μg/m³	80	30.66	32.70	32.17	34.24	33.55	32.34	32.15	32.77	34.55	32.59	33.26
Sulphur Dioxide	μg/m³	80	4.45	4.28	4.23	5.08	4.78	4.86	4.72	4.81	5.04	5.10	4.81
Carbon Monoxide	mg/m ³	2	0.422	0.454	0.462	0.492	0.512	0.518	0.458	0.442	0.494	0.496	0.504
Hydrocarbon	mg/m ³	NIL	1.68	1.81	1.90	2.08	1.87	2.20	2.28	1.70	2.02	1.58	1.98
Mercury	mg/m ³			< 0.002			< 0.002		< 0.002			< 0.002	
Hydrocarbon as Non Methane	mg/m³	NIL	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
VOC's	μg/m³			3.58			3.30		4.13			3.04	
Benzo(a)Pyrene	ng/m³	1		0.36			0.41		0.50			0.34	
Ammonia	μg/m³	400		28.57			31.38		33.17			28.72	
Ozone	μg/m³	180		32.19			37.39		37.31			34.13	
Lead	μg/m³	1		0.11			0.10		0.16			0.08	
Nickel	ng/m³	20		9.08			10.28		11.47			8.27	
Arsenic	ng/m³	6		1.72			1.82		2.15			1.60	
Benzene	μg/m³	5		1.89			1.95		2.34			1.73	

Name of L	ocation				SARASW	ATIGUN.	J				PRAT	PPUR		
Mon	th													
Parameter	UoM	NAAQS LIMIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
PM _{2.5}	μg/m³	60	37.39	39.26	42.65	46.25	48.77	46.37	40.22	38.33	52.14	49.32	50.46	55.60
PM ₁₀	μg/m³	100	71.57	78.31	83.74	90.09	92.52	90.38	84.91	78.61	91.60	92.79	92.94	97.46
Nitrogen Dioxide	μg/m³	80	28.74	31.79	31.05	33.14	33.28	32.43	31.49	31.57	32.28	33.75	33.13	33.43
Sulphur Dioxide	μg/m³	80	4.20	4.55	4.56	4.72	4.82	4.73	4.73	4.40	4.55	4.93	4.98	4.91
Carbon Monoxide	mg/m ³	2	0.408	0.456	0.462	0.492	0.504	0.526	0.462	0.458	0.484	0.502	0.502	0.496
Hydrocarbon	mg/m ³	NIL	1.52	1.90	2.02	1.92	1.85	1.93	1.74	2.39	2.36	2.04	1.70	2.07
Mercury	mg/m ³			< 0.002			< 0.002			< 0.002			< 0.002	
Hydrocarbon as Non Methane	mg/m³	NIL	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
VOC's	μg/m³			3.18			3.21			3.62			3.13	
Benzo(a)Pyrene	ng/m³	1		0.40			0.41			0.36			0.38	
Ammonia	μg/m³	400		29.87			31.23			33.79			29.58	
Ozone	μg/m³	180		33.44			36.78			37.41			35.26	
Lead	μg/m³	1		0.12			0.10			0.11			0.09	
Nickel	ng/m³	20		8.89			10.69			9.48			9.08	
Arsenic	ng/m³	6		1.68			1.85			1.76			1.66	
Benzene	μg/m³	5		1.88			1.93			2.48			1.79	

Name of L	ocation				BAN	ISIA					JAMO	ORA		
Mon	th													
Parameter	UoM	NAAQS LIMIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
PM _{2.5}	μg/m³	60	42.10	42.72	42.92	49.17	50.42	47.92	30.24	42.92	40.49	48.47	45.76	44.12
PM ₁₀	μg/m³	100	80.67	87.18	82.21	94.32	95.75	86.48	68.67	88.70	79.76	90.51	95.02	90.30
Nitrogen Dioxide	μg/m³	80	31.27	31.07	32.08	34.37	32.59	32.84	30.39	32.12	32.93	34.42	32.75	32.39
Sulphur Dioxide	μg/m³	80	4.62	4.59	4.86	5.10	5.21	4.86	4.61	4.64	4.45	5.22	4.93	4.87
Carbon Monoxide	mg/m ³	2	0.456	0.460	0.452	0.486	0.488	0.496	0.434	0.468	0.478	0.514	0.502	0.498
Hydrocarbon	mg/m ³	NIL	1.68	2.18	1.94	1.98	1.95	1.85	1.64	2.32	1.79	1.98	1.73	1.95
Mercury	mg/m ³			< 0.002			< 0.002			< 0.002			< 0.002	
Hydrocarbon as Non Methane	mg/m³	NIL	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
VOC's	μg/m³			3.54			3.47			3.98			3.24	
Benzo(a)Pyrene	ng/m³	1		0.44			0.43			0.48			0.39	
Ammonia	μg/m³	400		34.18			33.59			35.12			30.02	
Ozone	μg/m³	180		38.24			39.88			39.37			35.83	
Lead	μg/m³	1		0.14			0.12			0.14			0.09	
Nickel	ng/m³	20		10.58			12.47			10.68			9.37	
Arsenic	ng/m³	6		2.24			1.93			2.08			1.68	
Benzene	μg/m³	5		2.41			2.02			2.54			1.81	

Name of L	ocation				KULI	OIHA					JATG	ORIA		
Mon	th													
Parameter	UoM	NAAQS LIMIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
PM _{2.5}	μg/m³	60	30.38	47.02	48.14	45.42	50.57	50.83	31.30	48.43	41.25	46.97	46.67	47.30
PM ₁₀	μg/m³	100	69.18	84.46	87.96	85.59	94.03	96.24	65.58	92.59	82.34	88.28	90.68	91.85
Nitrogen Dioxide	μg/m³	80	29.04	31.61	32.03	34.16	34.58	33.61	28.95	31.44	31.83	33.90	34.12	33.75
Sulphur Dioxide	μg/m³	80	4.29	4.43	4.46	4.64	4.97	4.86	4.19	4.17	4.75	4.60	4.86	4.84
Carbon Monoxide	mg/m ³	2	0.424	0.432	0.448	0.486	0.492	0.502	0.432	0.454	0.466	0.496	0.502	0.512
Hydrocarbon	mg/m ³	NIL	1.60	2.06	2.19	1.86	1.79	2.04	1.74	2.03	1.98	2.12	1.92	1.97
Mercury	mg/m ³			< 0.002			< 0.002			< 0.002			< 0.002	
Hydrocarbon as Non Methane	mg/m³	NIL	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
VOC's	μg/m³			3.42			3.32			3.94			3.51	
Benzo(a)Pyrene	ng/m³	1		0.47			0.39			0.48			0.43	
Ammonia	μg/m³	400		30.37			30.72			31.62			33.41	
Ozone	μg/m³	180		34.22			36.04			35.81			39.53	
Lead	μg/m³	1		0.12			0.09			0.15			0.12	
Nickel	ng/m³	20		9.54			9.68			10.38			12.25	
Arsenic	ng/m³	6		1.97			1.73			1.96			1.90	
Benzene	μg/m³	5		2.08			1.86			2.18			2.01	

Name of L	ocation			Go	palpur \	Vareho	use				KANTA	BERIA		
Mon	th													
Parameter	UoM	NAAQS LIMIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
PM _{2.5}	μg/m³	60	37.46	37.71	37.92	49.06	48.95	43.42	30.42	31.49	40.42	48.63	43.75	40.22
PM ₁₀	μg/m³	100	74.23	74.11	79.91	93.60	96.93	86.38	68.63	70.32	80.76	95.25	84.97	87.63
Nitrogen Dioxide	μg/m³	80	29.37	31.23	31.68	34.96	33.10	34.32	29.71	31.58	32.15	34.98	33.38	33.96
Sulphur Dioxide	μg/m³	80	4.22	4.24	4.28	4.98	4.56	4.81	4.28	4.37	4.16	4.87	4.95	4.92
Carbon Monoxide	mg/m ³	2	0.428	0.470	0.462	0.488	0.496	0.522	0.432	0.456	0.467	0.512	0.514	0.514
Hydrocarbon	mg/m ³	NIL	1.56	1.78	2.12	2.24	1.97	1.82	1.74	2.29	1.82	2.04	1.82	1.90
Mercury	mg/m ³			< 0.002			< 0.002			< 0.002			< 0.002	
Hydrocarbon as Non Methane	mg/m³	NIL	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
VOC's	μg/m³			2.98			3.55			3.34			3.35	
Benzo(a)Pyrene	ng/m³	1		0.38			0.44			0.34			0.40	
Ammonia	μg/m³	400		31.62			34.55			33.28			31.29	
Ozone	μg/m³	180		35.81			40.27			37.35			36.44	
Lead	μg/m³	1		0.10			0.13			0.09			0.10	
Nickel	ng/m³	20		8.68			13.26			8.68			10.04	
Arsenic	ng/m³	6		1.76			1.91			1.74			1.80	
Benzene	μg/m³	5		2.18			2.04			2.14			1.94	

Name of L	ocation				NAC	HAN					SARE	NGA		
Mon	th													
Parameter	UoM	NAAQS LIMIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
PM _{2.5}	μg/m³	60	39.76	32.16	46.36	51.67	50.83	57.58	29.58	35.33	49.37	46.64	52.01	40.40
PM ₁₀	μg/m³	100	74.67	70.52	80.86	95.54	93.13	95.93	64.49	70.12	86.27	93.14	88.86	83.79
Nitrogen Dioxide	μg/m³	80	29.89	31.44	32.73	33.14	31.65	33.56	29.53	32.76	31.74	34.83	32.77	33.05
Sulphur Dioxide	μg/m³	80	4.57	4.39	4.57	5.06	4.95	4.93	4.40	4.38	4.66	5.24	4.69	4.67
Carbon Monoxide	mg/m ³	2	0.442	0.464	0.464	0.50	0.498	0.502	0.426	0.462	0.458	0.484	0.508	0.532
Hydrocarbon	mg/m ³	NIL	1.58	1.98	1.87	2.16	1.89	2.28	1.56	2.01	2.13	1.96	1.77	1.74
Mercury	mg/m ³			< 0.002			< 0.002			< 0.002			< 0.002	
Hydrocarbon as Non Methane	mg/m³	NIL	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
VOC's	μg/m³			3.44			3.46			3.75			3.21	
Benzo(a)Pyrene	ng/m³	1		0.34			0.42			0.36			0.40	
Ammonia	μg/m³	400		32.05			32.77			30.47			30.97	
Ozone	μg/m³	180		36.28			38.05			34.78			35.14	
Lead	μg/m³	1		0.09			0.11			0.09			0.09	
Nickel	ng/m³	20		8.62			11.19			7.84			9.92	
Arsenic	ng/m³	6		1.68			1.87			1.54			1.77	
Benzene	μg/m³	5		2.23			1.99			1.92			1.89	

Name of L	ocation				LABNA	APARA		
Mon	ith							
Parameter	UoM	NAAQS LIMIT	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
PM _{2.5}	μg/m³	60	36.78	38.75	43.64	44.21	48.33	43.63
PM ₁₀	μg/m³	100	77.78	74.18	84.69	89.76	90.86	84.35
Nitrogen Dioxide	μg/m³	80	28.89	32.08	32.62	34.74	32.86	33.59
Sulphur Dioxide	μg/m³	80	4.15	4.28	4.47	5.15	5.10	4.94
Carbon Monoxide	mg/m³	2	0.418	0.468	0.474	0.492	0.492	0.508
Hydrocarbon	mg/m ³	NIL	1.68	1.97	2.09	1.98	2.05	1.80
Mercury	mg/m ³			< 0.002			< 0.002	
Hydrocarbon as Non Methane	mg/m ³	NIL	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
VOC's	μg/m³			2.84			3.61	
Benzo(a)Pyrene	ng/m³	1		0.38			0.46	
Ammonia	μg/m³	400		30.19			34.72	
Ozone	μg/m³	180		34.21			40.68	
Lead	μg/m³	1		0.10			0.14	
Nickel	ng/m³	20		7.82			13.51	
Arsenic	ng/m³	6		1.80			1.98	
Benzene	μg/m³	5		2.05			2.07	

ANNEXURE II

		Month	a Gas Explorati				ct-24	
S. No.	Parameter	Unit	Onshore Discharge Standards	CPCB Limit for Discharge	EDN-99 R.O. Treated Water Analysis	EDD 50 R.O. Treated Water Analysis	EDH-64 R.O. Treated Water Analysis	GGS-001 R.O. Treated Water Analysis
1	рН		5.5-9.0	5.5 to 9.0	7.41	7.54	7.53	7.68
2	Temperature	deg. C	40 deg. C		32.1°C	29.8°C	28.2°C	31.2°C
3	Suspended Solids	mg/L	100	100	<2	<2	<2	<2
4	Total Dissolved Solids	mg/L	2100		678	312	482	942
5	Chlorides	mg/L	600		205	85	105	213
6	Sulphates	mg/L	1000		4	<2.5	6	3.8
7	BOD, 3 Days at 27ºC	mg/L	30	30	<2	<2	<2	<2
8	COD	mg/L	100	250	<8	<8	<8	<8
9	Oil & Grease	mg/L	10	10	<5.0	<5.0	<5.0	<5.0
10	Phenolic Compounds	mg/L	1.2	1	<0.002	<0.002	<0.002	<0.002
11	Sulphides	mg/L	2	2	<0.5	<0.5	<0.5	<0.5
12	Fluorides	mg/L	1.5	2	0.95	0.62	0.82	0.55
13	Chromium (Total)	mg/L	1	2	<0.05	<0.05	<0.05	<0.05
14	Zinc	mg/L	2	5	0.018	0.012	0.017	0.016
15	Copper	mg/L	0.2	3	<0.05	<0.05	<0.05	<0.05
16	Nickel	mg/L	3	3	<0.05	<0.05	<0.05	<0.05
17	Lead	mg/L	0.1	0.1	<0.1	<0.1	<0.1	<0.1
18	Mercury	mg/L	0.01	0.01	<0.001	<0.001	<0.001	<0.001
19	Cyanide	mg/L	0.2	0.2	<0.02	<0.02	<0.02	<0.02
20	Chromium (Cr+6)	mg/L	0.1	0.1	<0.01	<0.01	<0.01	<0.01
21	% Sodium	mg/L	60		53.8	54.1	55.8	58.9

Essar Oil and Gas Exploration and Production Ltd., (Period: Oct-24 to Mar-25)

		Month	Nov-24					
S. No.	Parameter	Unit	Onshore Discharge Standards	CPCB Limit for Discharge	GGS-001 R.O. Treated Water Analysis	EDD 50 R.O. Treated Water Analysis	EDH-64 R.O. Treated Water Analysis	EDN-99 R.O. Treated Water Analysis
1	рН		5.5-9.0	5.5 to 9.0	7.33	7.58	7.41	7.5
2	Temperature	deg. C	40 deg. C		29.3°C	28.1°C	27.8°C	29.6°C
3	Suspended Solids	mg/L	100	100	3	<2	<2	6
4	Total Dissolved Solids	mg/L	2100		462	442	710	802
5	Chlorides	mg/L	600		41	70	216	390
6	Sulphates	mg/L	1000		4.3	4.9	7.1	8.6
7	BOD, 3 Days at 27ºC	mg/L	30	30	<2	<2	<2	<2
8	COD	mg/L	100	250	<8	<8	<8	<8
9	Oil & Grease	mg/L	10	10	<5.0	<5.0	<5.0	<5.0
10	Phenolic Compounds	mg/L	1.2	1	<0.002	<0.002	<0.002	<0.002
11	Sulphides	mg/L	2	2	<0.5	<0.5	<0.5	<0.5
12	Fluorides	mg/L	1.5	2	0.58	0.41	0.63	0.85
13	Chromium (Total)	mg/L	1	2	<0.05	<0.05	<0.05	<0.05
14	Zinc	mg/L	2	5	0.014	0.011	0.015	0.019
15	Copper	mg/L	0.2	3	<0.05	<0.05	<0.05	<0.05
16	Nickel	mg/L	3	3	<0.05	<0.05	<0.05	<0.05
17	Lead	mg/L	0.1	0.1	<0.1	<0.1	<0.1	<0.1
18	Mercury	mg/L	0.01	0.01	<0.001	<0.001	<0.001	<0.001
19	Cyanide	mg/L	0.2	0.2	<0.02	<0.02	<0.02	<0.02
20	Chromium (Cr+6)	mg/L	0.1	0.1	<0.01	<0.01	<0.01	<0.01
21	% Sodium	mg/L	60		57.4	56.3	54.5	58.3

		Month	Dec-24					
S. No.	Parameter	Unit	Onshore Discharge Standards	CPCB Limit for Discharge	GGS-001 R.O. Treated Water Analysis	EDD 50 R.O. Treated Water Analysis	EDH-64 R.O. Treated Water Analysis	EDN-99 R.O. Treated Water Analysis
1	рН		5.5-9.0	5.5 to 9.0	7.6	7.34	7.42	7.63
2	Temperature	deg. C	40 deg. C		23.2°C	25.1°C	25.8°C	27.3°C
3	Suspended Solids	mg/L	100	100	3	<2	<2	5
4	Total Dissolved Solids	mg/L	2100		1062	996	1124	1318
5	Chlorides	mg/L	600		109	260	410	560
6	Sulphates	mg/L	1000		3.7	3.3	4.7	10.6
7	BOD, 3 Days at 27ºC	mg/L	30	30	<2	<2	<2	2
8	COD	mg/L	100	250	<8	<8	<8	10
9	Oil & Grease	mg/L	10	10	<5.0	<5.0	<5.0	<5.0
10	Phenolic Compounds	mg/L	1.2	1	<0.002	<0.002	<0.002	<0.002
11	Sulphides	mg/L	2	2	<0.5	<0.5	<0.5	<0.5
12	Fluorides	mg/L	1.5	2	0.58	0.41	0.76	0.70
13	Chromium (Total)	mg/L	1	2	<0.05	<0.05	<0.05	<0.05
14	Zinc	mg/L	2	5	0.014	0.017	0.015	0.018
15	Copper	mg/L	0.2	3	<0.05	<0.05	<0.05	<0.05
16	Nickel	mg/L	3	3	<0.05	<0.05	<0.05	<0.05
17	Lead	mg/L	0.1	0.1	<0.1	<0.1	<0.1	<0.1
18	Mercury	mg/L	0.01	0.01	<0.001	<0.001	<0.001	<0.001
19	Cyanide	mg/L	0.2	0.2	<0.02	<0.02	<0.02	<0.02
20	Chromium (Cr+6)	mg/L	0.1	0.1	<0.01	<0.01	<0.01	<0.01
21	% Sodium	mg/L	60		57.8	57.9	55.3	56.5

Essar Oil and Gas Exploration and Production Ltd., (Period: Oct-24 to Mar-25)

		Month	Jan-25					
S. No.	Parameter	Unit	Onshore Discharge Standards	CPCB Limit for Discharge	GGS-001 R.O. Treated Water Analysis	EDD 50 R.O. Treated Water Analysis	EDH-64 R.O. Treated Water Analysis	EDN-99 R.O. Treated Water Analysis
1	рН		5.5-9.0	5.5 to 9.0	7.23	7.67	7.27	7.55
2	Temperature	deg. C	40 deg. C		26.1°C	25.2°C	23.2°C	23.6°C
3	Suspended Solids	mg/L	100	100	<2	<2	<2	3
4	Total Dissolved Solids	mg/L	2100		612	776	660	1122
5	Chlorides	mg/L	600		168	329	345	580
6	Sulphates	mg/L	1000		4.8	5.9	7.4	7
7	BOD, 3 Days at 27ºC	mg/L	30	30	<2	<2	<2	<2
8	COD	mg/L	100	250	<8	<8	<8	<8
9	Oil & Grease	mg/L	10	10	<5.0	<5.0	<5.0	<5.3
10	Phenolic Compounds	mg/L	1.2	1	<0.002	<0.002	<0.002	<0.002
11	Sulphides	mg/L	2	2	<0.5	<0.5	<0.5	<0.5
12	Fluorides	mg/L	1.5	2	0.68	0.49	1.02	0.77
13	Chromium (Total)	mg/L	1	2	<0.05	<0.05	<0.05	<0.05
14	Zinc	mg/L	2	5	0.015	0.011	0.018	0.021
15	Copper	mg/L	0.2	3	<0.05	<0.05	<0.05	<0.05
16	Nickel	mg/L	3	3	<0.05	<0.05	<0.05	<0.05
17	Lead	mg/L	0.1	0.1	<0.1	<0.1	<0.1	<0.1
18	Mercury	mg/L	0.01	0.01	<0.001	<0.001	<0.001	<0.001
19	Cyanide	mg/L	0.2	0.2	<0.02	<0.02	<0.02	<0.02
20	Chromium (Cr+6)	mg/L	0.1	0.1	<0.01	<0.01	<0.01	<0.01
21	% Sodium	mg/L	60		53.6	58.9	54.6	53.5

R.O. Treated Water Analysis Report of CBM Project, Raniganj East operated by Essar Oil and Gas Exploration and Production Ltd., (Period: Oct-24 to Mar-25)

		Month	Feb-25					
S. No.	Parameter	Unit	Onshore Discharge Standards	CPCB Limit for Discharge	GGS-001 R.O. Treated Water Analysis	EDD 50 R.O. Treated Water Analysis	EDH-64 R.O. Treated Water Analysis	EDN-99 R.O. Treated Water Analysis
1	рН		5.5-9.0	5.5 to 9.0	7.52	7.69	7.66	7.88
2	Temperature	deg. C	40 deg. C		23.6°C	21.3°C	26.1°C	28.4°C
3	Suspended Solids	mg/L	100	100	<2	<2	3	<2
4	Total Dissolved Solids	mg/L	2100		552	660	542	644
5	Chlorides	mg/L	600		110	193	265	282
6	Sulphates	mg/L	1000		4.6	7.5	6.8	7.9
7	BOD, 3 Days at 27ºC	mg/L	30	30	<2	<2	<2	2
8	COD	mg/L	100	250	<8	<8	<8	10
9	Oil & Grease	mg/L	10	10	<5.6	<5.9	<5.3	<5.3
10	Phenolic Compounds	mg/L	1.2	1	<0.002	<0.002	<0.002	<0.002
11	Sulphides	mg/L	2	2	<0.5	<0.5	<0.5	<0.5
12	Fluorides	mg/L	1.5	2	0.59	0.60	0.88	0.92
13	Chromium (Total)	mg/L	1	2	<0.05	<0.05	<0.05	<0.05
14	Zinc	mg/L	2	5	0.015	0.017	0.014	0.026
15	Copper	mg/L	0.2	3	<0.05	<0.05	<0.05	<0.05
16	Nickel	mg/L	3	3	<0.05	<0.05	<0.05	<0.05
17	Lead	mg/L	0.1	0.1	<0.1	<0.1	<0.1	<0.1
18	Mercury	mg/L	0.01	0.01	<0.001	<0.001	<0.001	<0.001
19	Cyanide	mg/L	0.2	0.2	<0.02	<0.02	<0.02	<0.02
20	Chromium (Cr+6)	mg/L	0.1	0.1	<0.01	<0.01	<0.01	<0.01
21	% Sodium	mg/L	60		55.9	57.6	58.3	58.3

		Month	Mar-25					
S. No.	Parameter	Unit	Onshore Discharge Standards	CPCB Limit for Discharge	EDH-64 R.O. Treated Water Analysis	EDN-99 R.O. Treated Water Analysis	EDD 50 R.O. Treated Water Analysis	GGS-001 R.O. Treated Water Analysis
1	рН		5.5-9.0	5.5 to 9.0	7.43	7.70	7.67	7.54
2	Temperature	deg. C	40 deg. C		25.1°C	27.8°C	27.7°C	28.6°C
3	Suspended Solids	mg/L	100	100	<2	3	<2	<2
4	Total Dissolved Solids	mg/L	2100		1138	924	1014	618
5	Chlorides	mg/L	600		470	518	286	94
6	Sulphates	mg/L	1000		5.3	8.1	3.3	4.3
7	BOD, 3 Days at 27ºC	mg/L	30	30	<2	<2	<2	<2
8	COD	mg/L	100	250	<8	<8	<8	<8
9	Oil & Grease	mg/L	10	10	<5.3	<5.3	<5.3	<5.3
10	Phenolic Compounds	mg/L	1.2	1	<0.002	<0.002	<0.002	<0.002
11	Sulphides	mg/L	2	2	<0.5	<0.5	<0.5	<0.5
12	Fluorides	mg/L	1.5	2	0.88	0.88	0.54	0.62
13	Chromium (Total)	mg/L	1	2	<0.05	<0.05	<0.05	<0.05
14	Zinc	mg/L	2	5	0.012	0.019	0.015	0.017
15	Copper	mg/L	0.2	3	<0.05	<0.05	<0.05	<0.05
16	Nickel	mg/L	3	3	<0.05	<0.05	<0.05	<0.05
17	Lead	mg/L	0.1	0.1	<0.1	<0.1	<0.1	<0.1
18	Mercury	mg/L	0.01	0.01	<0.001	<0.001	<0.001	<0.001
19	Cyanide	mg/L	0.2	0.2	<0.02	<0.02	<0.02	<0.02
20	Chromium (Cr+6)	mg/L	0.1	0.1	<0.01	<0.01	<0.01	<0.01
21	% Sodium	mg/L	60		55.8	50.2	56.4	59

ANNEXURE III

		Well Name			EDH-044-D6A	EDI-071-D8	EDD-242-D4	EDN-161-D4
	Date					23.11.2024	20.01.2025	20.01.2025
SI. No.	Class	Parameter	Unit	Limit as per G.S.R No. 395 E,dtd- 4th Apr,2016 Schedule-II, Class-A	24.10.2024	Result		
1	A1	Arsenic	mg/L	5	< 0.05	< 0.05	< 0.05	< 0.05
2	A2	Barium	mg/L	100	0.72	0.15	< 0.05	< 0.05
3	А3	Cadmium	mg/L	1	< 0.05	< 0.05	< 0.05	< 0.05
4	A4	Chromium and/or Chromium(III) Compounds	mg/L	5	<0.05	<0.05	<0.05	<0.05
5	A5	Lead	mg/L	5	< 0.05	< 0.05	< 0.05	< 0.05
6	A6	Manganese	mg/L	10	1.55	0.59	< 0.05	< 0.05
7	A7	Mercury	mg/L	0.2	< 0.05	< 0.05	< 0.05	< 0.05
8	A8	Selenium	mg/L	1	< 0.05	< 0.05	< 0.05	< 0.05
9	A9	Silver	mg/L	5	< 0.05	< 0.05	< 0.05	< 0.05
10	A11	Cyanide	mg/L	20	0.14	< 0.05	< 0.05	< 0.05
11	A14	1,1-Dichloroethylene	mg/L	0.7	<0.01	<0.01	<0.01	<0.01
12	A15	1,2-Dichloroethane	mg/L	0.5	<0.01	<0.01	<0.01	<0.01
13	A16	1,4-Dichlorobenzene	mg/L	7.5	<0.01	<0.01	<0.01	<0.01
14	A17	2,4,5-Trichlorophenol	mg/L	400	< 0.05	< 0.05	< 0.05	< 0.05
15	A18	2,4,6-Trichlorophenol	mg/L	2	< 0.05	<0.05	< 0.05	< 0.05
16	A19	2,4-Dinitrotoluene	mg/L	0.13	<0.01	<0.01	<0.01	<0.01
17	A20	Benzene	mg/L	0.5	<0.01	<0.01	<0.01	<0.01
18	A24	Carbontetrachloride	mg/L	0.5	<0.01	<0.01	<0.01	<0.01
19	A25	Chlorobenzene	mg/L	100	<0.01	<0.01	<0.01	<0.01
20	A26	Chloroform	mg/L	6	<0.01	<0.01	<0.01	<0.01
21	A27	Cresol (ortho + meta + para)	mg/L	200	< 0.05	< 0.05	< 0.05	< 0.05
22	A29	Hexachlorobenzene	mg/L	0.13	< 0.0100	< 0.0100	< 0.0100	< 0.0100
23	A30	Hexachlorobutadiene	mg/L	0.5	<0.01	<0.01	<0.01	<0.01
24	A31	Hexachloroethane	mg/L	3	Absent	Absent	Absent	Absent
25	A32	Methylethylketone	mg/L	200	<0.01	<0.01	<0.01	<0.01
26	A34	Nitrobenzene	mg/L	2	<0.01	<0.01	<0.01	<0.01
27	A35	Pentachlorophenol	mg/L	100	< 0.05	< 0.05	< 0.05	< 0.05
28	A36	Pyridine	mg/L	5	<0.01	Absent	<0.01	<0.01
29	A37	Tetrachloroethylene	mg/L	0.7	<0.01	<0.01	<0.01	<0.01
30	A38	Trichloroethylene	mg/L	0.5	<0.01	<0.01	<0.01	<0.01
31	A39	Vinylchloride	mg/L	0.2	<0.01	<0.01	<0.01	<0.01
32	A40	2,4,5-TP (Silvex)	mg/L	1	Absent	Absent	Absent	Absent
33	A41	2,4-Dichlorophenoxyacetic acid	mg/L	10	< 0.0100	< 0.0100	<0.0100	< 0.0100
34	A47	Chlordane	mg/L	0.03	<0.001	<0.001	<0.001	<0.001
35	A51	Endrin	mg/L	0.02	<0.001	<0.001	<0.001	<0.001
36	A53	Heptachlor (& its Epoxide)	mg/L	0.008	<0.001	<0.001	<0.001	<0.001
37	A55	Lindane	mg/L	0.4	<0.001	<0.001	<0.001	<0.001
38	A57	Methoxychlor	mg/L	10	<0.001	<0.001	<0.001	<0.001
39	A61	Toxaphene	mg/L	0.5	Absent	Absent	Absent	Absent
40	A68	Nickel	mg/L	20	<0.05	<0.05	<0.05	< 0.05
41	C1	Ignitability			Non Flamabble	Non Flamabble	Non Flamabble	Non Flamabble
42	C2	Corrositivity			Non corrosive	Non corrosive	Non corrosive	Non corrosive
43	С3	Reactivity - [Cyanide (as HCN and H2S)]			N0n-reactive	N0n-reactive	N0n-reactive	N0n-reactive

ANNEXURE IV

Ambient Noise Level Monitoring Report for Raniganj (East) CBM Project by Essar Oil and Gas Exploration and Production Ltd.

[Period: Oct-24 to Mar-25]

Ambient Noise Level Monitoring Result as per the sampling collected in the month of Nov-24									
	DAY TIN	ИE	NIGHT TIME						
Location	Limit as per the EC, dB(A)	Noise Level [Leq] dB(A)	Limit as per the EC, dB(A)	Noise Level [Leq] dB(A)					
KULDIHA [EDN # 099]	75	62.18	70	51.23					
MCS- MALANDIGHI	75	63.27	70	49.93					
SARASWATIGUNJ [EDI#039]	75	62.53	70	52.78					
GOPALPUR WAREHOUSE	75	58.11	70	51.96					
GGS#002 NEAR MAIN GATE SECURITY ROOM	75	61.75	70	51.48					
JAMGORA [EDP # 406]	75	60.81	70	44.51					
NACHAN [EDD – 053]	75	61.09	70	50.63					
PRATAPPUR [EDD # 049]	75	59.62	70	48.51					
JATGORIA [EDD – 005]	75	61.65	70	51.16					
KANTABERIA [EDD-012]	75	61.33	70	47.38					
PARULIA [EDC-413]	75	56.98	70	49.62					
KHATGORIA [GGS # 001]	75	62.08	70	52.78					
BANSIA [EDD – 411]	75	54.28	70	51.15					
LABNAPARA [EDH # 064]	75	62.35	70	51.3					
SARENGA	75	54.54	70	50.88					

ANNEXURE V

FORM 4

[See Rules 9(3) and 10(5)]

(EMBLEM OR HOLOGRAM OF THE CONCERNED AUTHORITY)

066520

PERMIT FOR SINKING OF NEW WELL

[U/S 7(3)(b) / 7(4)(b) / 7(5)(a) of the West Bengal Ground Water Resources (Management, Control and Regulation) Act 2005 | P0216034011930000001TSE



		TERMIT I	10
1.	(a)	Name of the applicant (user)	ESSAR OIL & GAS EXPLORATION AND Shri/Smt. PRODUCTION LIMITED.
	(b)	Son/Daughter of	: BIDHAN NAGAR, DURGAPUR
	(c)	Address of the applicant	NAME AND THE CALL OF THE CALL
	(d)	Category of farmer (Please tick)	: Small Farmer / Marginal Farmer / Others
		(in case of irrigation well)	BP/A0658, SL.NO:93; DT. 02.07.2018
3	(e)	Serial No. of application Form	
		and date of submission	Cosmany
	CHAPTE .	Specimen signature of the user	
2.		ation particulars	BURDWAN
		District	KANKSA, GOPALPUR, 065, 1193
	283725620	Block, Mouza, J. L. No., Plot No.	
	(c)	Municipality / Corporation Ward No. / Borough No., Holding No.	
3.	Part	iculars of the proposed well and pumping dev	vice
	(a)	Type of the well	TUBEWELL 150 m
	(b)	Approx. depth of the well (m)	
	(c)	Purpose of the well	: INDUSTRIAL [CBM EXPL. AND PRODUCTION UNIT]
	(d)	Assembly size (for tube well)	: 100 mm. X ¹⁵⁰ mm.
	(e)	Approx. strainer length (for tube well)	m
	(f)	Diameter (for dug well)	SUBMERSIBLE
	(g)	Type of pump to be used	: 1.5 H.P
	(h)	H. P. of the pump	Electric Motor
	(i)	Operational device	2.5 m³/hr
	(j)	Rate of withdrawal (m3/hr.)	6 Hours Per Day
	(k)	Maximum allowable running hours per day	o Hours For Buy
	This	s permit authorizes the owner applicant (use	er) to sink a well in the location specified at S1. (2) for extraction of grou
	CALL STATE	1: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:	(2) (i) and for maning house / day as shown at \$1 (2)(V) and is walled subject to

water at a rate not exceeding that as shown at S1. (3) (j) and for running hours / day as shown at S1. (3 to the observance of the conditions stated overleaf.

Burdwan

Place:

Date:

29/08/2018

Conditions:

(1) In case of any change of ownership of the proposed well, fresh registration has to be obtained.

No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at S1. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this permit.

OFFICE

SEAL

In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.

(4) Any other condition imposed by the concerned Authority.

N: B: Conditionalities are

Signature Galogistis WAlthority Memberl Secristary District Level Ground Water Resources Development Authority Burdwan-713101

B.C.L./4/50,000/'06

CONDITIONALITIES FOR PACKAGE DRINKING WATER PROJECTS AND INDUSTRIES/INFRASTRUCTURES:

1. Roof Top Rain Water harvesting for Surface Storage.

2. Excavation of pond of size 150 ft. x 50ft. with 2 m. depth.

3. Chemical Quality Test Report from BIS approved Laboratory in each year to be submitted to the Geologist & Member Secretary, DLA.

4. Arrangement of Water Meter at the outlet of Tube Well discharge to be monitored by Govt. Officials as assigned by DLA.

5. The enhanced rate if any in future (including the rates revised retrospectively) of fees/ charges/ taxes for drawls of ground water on annual basis, should be borne by applications for operating their tube wells in a continuous manner.

Geologist, SWID &
Member Secretary, District Level
Ground Water Resources Development Authority
Burdwan-713101

FORM 4

[See Rules 9(3) and 10(5)]

(EMBLEM OR HOLOGRAM OF THE CONCERNED AUTHORITY)

066521

PERMIT FOR SINKING OF NEW WELL

[U/S 7(3)(b) / 7(4)(b) / 7(5)(a) of the West Bengal Ground Water Resources (Management, Control and Regulation) Act 2005.]

P- 1999



1. (a) Name of the applicant (user)

(b) Son/Daughter of

(c) Address of the applicant

(d) Category of farmer (Please tick) (in case of irrigation well)

(e) Serial No. of application Form and date of submission

(f) Specimen signature of the user

2. Location particulars---

(a) District

(b) Block, Mouza, J. L. No., Plot No.

(c) Municipality/Corporation
Ward No./Borough No., Holding No.

3. Particulars of the proposed well and pumping device---

(a) Type of the well

(b) Approx. depth of the well (m)

(c) Purpose of the well

(d) Assembly size (for tube well)

(e) Approx. strainer length (for tube well)

(f) Diameter (for dug well)

(g) Type of pump to be used

(h) H. P. of the pump

(i) Operational device

(i) Rate of withdrawal (m3/hr.)

(k) Maximum allowable running hours per day

Shri/SmtESSAR OIL & GAS EXPLORATION AND

PRODUCTION LIMITED.

BIDHAN NAGAR, DURGAPUR

Small Farmer/Marginal Farmer/Others

BP/A0658, SL.NO:21; DT. 02.07.2018

Cayswamy

BURDWAN

KANKSA, AKANDARA, 047, 41

TUBEWELL

150 m

: INDUSTRIAL [CBM EXPL. AND PRODUCTION UNIT]

100 mm. X₅₀ mm

12 m

m.

: SUBMERSIBLE

1.5 H.P

Electric Motor

2.5 m³/hr

6 Hours Per Day

This permit authorizes the owner applicant (user) to sink a well in the location specified at S1. (2) for extraction of ground water at a rate not exceeding that as shown at S1. (3) (j) and for running hours / day as shown at S1. (3) (K), and is valid subject to the observance of the conditions stated overleaf.

Place: Burdwan

Date: 29/08/2018

Signatur Groung is subhig Albahority

Member & Greismy, Orstrict Level

Ground Water Resources Development Authority

Burdwan-713101

Conditions:

(1) In case of any change of ownership of the proposed well, fresh registration has to be obtained.

(2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at S1. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this permit.

(3) In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation of THE GEORGE

(4) Any other condition imposed by the concerned Authority.

N.B: Conditionalities are imposed on receive page of this certificate



B.C.L./4/50,000/'06

CONDITIONALITIES FOR PACKAGE DRINKING WATER PROJECTS AND INDUSTRIES/ INFRASTRUCTURES:

1. Roof Top Rain Water harvesting for Surface Storage.

2. Excavation of pond of size 150 ft. x 50ft. with 2 m. depth.

3. Chemical Quality Test Report from BIS approved Laboratory in each year to be submitted to the Geologist & Member Secretary, DLA.

4. Arrangement of Water Meter at the outlet of Tube Well discharge to be monitored by Govt. Officials as assigned by DLA.

5. The enhanced rate if any in future (including the rates revised retrospectively) of fees/ charges/ taxes for drawls of ground water on annual basis, should be borne by applications for operating their tube wells in a continuous manner.

Geologist, SWID &
Member Secretary, District Level

Ground Water Resources Development Authority Burdwan-713101

FORM 4

[See Rules 9(3) and 10(5)]

(EMBLEM OR HOLOGRAM OF THE CONCERNED AUTHORITY)

066522

PERMIT FOR SINKING OF NEW WELL

P- 2000

[U/S 7(3)(b) / 7(4)(b) / 7(5)(a) of the West Bengal Ground Water Resources (Management, Control and Regulation) Act 2005.]

P0209056004270000001TSE

PERMIT NO

ESSAR OIL & GAS EXPLORATION AND Shri/Smt. PRODUCTION LIMITED. 1. (a) Name of the applicant (user)

(b) Son/Daughter of BIDHAN NAGAR, DURGAPUR (c) Address of the applicant

(d) Category of farmer (Please tick) Small Farmer/Marginal Farmer/Others

(in case of irrigation well) BP/A0660, SL.NO:100; DT. 02.07.2018 (e) Serial No. of application Form

and date of submission

(f) Specimen signature of the user

2. Location particulars---

BURDWAN (a) District

DURGAPUR-FARIDPUR, KHATGORIA, 030, 427 (b) Block, Mouza, J. L. No., Plot No.

(c) Municipality/Corporation Ward No. / Borough No., Holding No.

3. Particulars of the proposed well and pumping device---TUBEWELL

(a) Type of the well

150 m (b) Approx. depth of the well (m)

INDUSTRIAL [CBM EXPL. AND PRODUCTION UNIT] (c) Purpose of the well 100 mm. X150

(d) Assembly size (for tube well) 12 (e) Approx. strainer length (for tube well)

(f) Diameter (for dug well) m. SUBMERSIBLE

(g) Type of pump to be used 1.5 H.P (h) H. P. of the pump

Electric Motor (i) Operational device 2.5 m3/hr (j) Rate of withdrawal (m3/hr.) 6 Hours Per Day

(k) Maximum allowable running hours per day This permit authorizes the owner applicant (user) to sink a well in the location specified at S1. (2) for extraction of ground water at a rate not exceeding that as shown at S1. (3) (j) and for running hours / day as shown at S1. (3) (K), and is valid subject

to the observance of the conditions stated overleaf.

Burdwan

Place:

29/08/2018

Date:

Conditions: In case of any change of ownership of the proposed well, fresh registration has to be obtained.

No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at S1. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this permit.

OFFICE

In case, any of the particulars / information furnished by the application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.

(4) Any other condition imposed by the concerned Authority.

the certificate.

Signature Good istably Duthority Member & Resigner to retrict Level Ground Water Resources Development Authority

Burdwan-713101

B.C.L./4/50,000/'06

<u>CONDITIONALITIES FOR PACKAGE DRINKING WATER PROJECTS AND INDUSTRIES/INFRASTRUCTURES:</u>

1. Roof Top Rain Water harvesting for Surface Storage.

2. Excavation of pond of size 150 ft. x 50ft. with 2 m. depth.

3. Chemical Quality Test Report from BIS approved Laboratory in each year to be submitted to the Geologist & Member Secretary, DLA.

4. Arrangement of Water Meter at the outlet of Tube Well discharge to be monitored by Govt. Officials as assigned by DLA.

5. The enhanced rate if any in future (including the rates revised retrospectively) of fees/ charges/ taxes for drawls of ground water on annual basis, should be borne by applications for operating their tube wells in a continuous manner.

Geologist, SWID &
Member Secretary, District Level
Ground Water Resources Development Authority
Burdwan-713101

FORM 4

[See Rules 9(3) and 10(5)]

066523

(EMBLEM OR HOLOGRAM OF THE CONCERNED AUTHORITY)

PERMIT FOR SINKING OF NEW WELL

P- 2001

[U/S 7(3)(b) / 7(4)(b) / 7(5)(a) of the West Bengal Ground Water Resources (Management, Control and Regulation) Act 2005.]



P0216038003740000001TSE

1.	(a)	Name of the applicant (user)	
STATE OF	(4)	ranie of the apprount (aser)	

(b) Son/Daughter of

(c) Address of the applicant

(d) Category of farmer (Please tick) (in case of irrigation well)

Serial No. of application Form and date of submission

(f) Specimen signature of the user

2. Location particulars---

(a) District

(b) Block, Mouza, J. L. No., Plot No.

(c) Municipality/Corporation Ward No. / Borough No., Holding No.

Particulars of the proposed well and pumping device---

(a) Type of the well

(b) Approx. depth of the well (m)

(c) Purpose of the well

(d) Assembly size (for tube well)

(e) Approx. strainer length (for tube well)

(f) Diameter (for dug well)

(g) Type of pump to be used

(h) H. P. of the pump

(i) Operational device

(i) Rate of withdrawal (m3/hr.)

(k) Maximum allowable running hours per day

Shri/Smt. ESSAR OIL & GAS EXPLORATION AND

PRODUCTION LIMITED.

BIDHAN NAGAR, DURGAPUR

Small Farmer/Marginal Farmer/Others

BP/A0660, SL.NO:99; DT. 02.07.2018

BURDWAN

KANKSA, JAMBAN, 018, 374

TUBEWELL

150 m

INDUSTRIAL [CBM EXPL. AND PRODUCTION UNIT]

100

m.

SUBMERSIBLE

1.5 H.P

Electric Motor

2.5 m³/hr

6 Hours Per Day

This permit authorizes the owner applicant (user) to sink a well in the location specified at S1. (2) for extraction of ground water at a rate not exceeding that as shown at S1. (3) (j) and for running hours / day as shown at S1. (3) (K), and is valid subject to the observance of the conditions stated overleaf.

Place:

Burdwan

29/08/2018 Date:

OFFICE SEAL GOVT. OF W.B

Signature of the Issuing Authority Member Secretary, District Level Ground Water Resources Development Authority

Burdwan-713101.

Conditions:

In case of any change of ownership of the proposed well, fresh registration hasto be obtained.

No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at S1. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this permit.

In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation

(4) Any other condition imposed by the concerned Authority.

N.B. Conditionalities



B.C.L./4/50,000/'06

CONDITIONALITIES FOR PACKAGE DRINKING WATER PROJECTS AND INDUSTRIES/ INFRASTRUCTURES:

1. Roof Top Rain Water harvesting for Surface Storage.

2. Excavation of pond of size 150 ft. x 50ft. with 2 m. depth.

3. Chemical Quality Test Report from BIS approved Laboratory in each year to be submitted to the Geologist & Member Secretary, DLA.

4. Arrangement of Water Meter at the outlet of Tube Well discharge to be monitored by Govt. Officials as assigned by DLA.

5. The enhanced rate if any in future (including the rates revised retrospectively) of fees/ charges/ taxes for drawls of ground water on annual basis, should be borne by applications for operating their tube wells in a continuous manner.

Geologist, SWID &
Member Secretary, District Level
Ground Water Resources Development Authority
Burdwan-713101

[See Rules 9(3) and 10(5)]

(EMBLEM OR HOLOGRAM OF THE CONCERNED AUTHORITY)

PERMIT FOR SINKING OF NEW WELL

[U/S 7(3)(b) / 7(4)(b) / 7(5)(a) of the West Bengal Ground Water Resources (Management, Control and Regulation) Act 2005.]

PERMIT NO P02160340129600000175£





8-1596

1. (a) Name of the applicant (user)

(b) Son/Daughter of

(c) Address of the applicant

(d) Category of farmer (Please tick) (in case of irrigation well)

(e) Serial No. of application Form and date of submission

(f) Specimen signature of the user

2. Location particulars---

(a) District

(b) Block, Mouza, J. L. No., Plot No.

(c) Municipality/Corporation Ward No. / Borough No., Holding No.

3. Particulars of the proposed well and pumping device-

(a) Type of the well

(b) Approx. depth of the well (m)

(c) Purpose of the well

(d) Assembly size (for tube well)

(e) Approx. strainer length (for tube well)

(f) Diameter (for dug well)

(g) Type of pump to be used

(h) H. P. of the pump

(i) Operational device

(j) Rate of withdrawal (m3/hr.)

(k) Maximum allowable running hours per day

Shri/Smt ESSAR OIL LIMITED Gopalem, Kankla, Burdwan Small Farmer/Marginal Farmer/Qthers

S1.00.08+88/A0507d1.01.09.15

066476

Bundwar nasa, Gopalpur-065, 1296

Mar well

bmansible

(k) Maximum allowable running hours per day

This permit authorizes the owner applicant (user) to sink a well in the location specified at \$1. (2) for extraction of ground water at a rate not exceeding that as shown at \$1.(3)(j) and for running hours / day as shown at \$1.(6)(K), and is valid subject to the observance of the conditions stated overleaf.

Burgman 13.10.2015 Date:

OFFICE SEAL

Signature of the Issuing Authority and Designation.

Conditions:

(1) In case of any change of ownership of the proposed well, fresh registration has to be obtained

No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at S1. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this permit.

In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.

Any other condition imposed by the concerned Authority

M: B: Conditions are impose much revenue foged

OFFICE SEAL

B.C.L./4/50,000/'06

CONDITIONALITIES FOR PACKAGE DRINKING WATER PROJECTS AND INDUSTRIES/ 213129 **INFRASTRUCTURES:**

Roof Top Rain Water harvesting for Surface Storage.

2. Excavation of pond of size 150 ft. x 50ft. with 2 m. depth.

Chemical Quality Test Report from BIS approved Laboratory in each year to be submitted to the Geologist & Member Secretary, DLA.

The Certificate of Permit will be reviewed in every year from the date if issuance of Permit-based on local hydrogeological conditions that may prevail afterwards.

5.7 Arrangement of Water Meter at the outlet of Tube Well discharge to be monitored by Govt. Officials as assigned by DLA.

assigned by DLA.

The enhanced rate if any in future (including the rates revised retrospectively) of fees/ charges/ taxes for the enhanced rate if any in future (including the rates revised retrospectively) of fees/ charges/ taxes for the enhanced rate if any in future (including the rates revised retrospectively) of fees/ charges/ taxes for the enhanced rate if any in future (including the rates revised retrospectively) of fees/ charges/ taxes for the enhanced rate if any in future (including the rates revised retrospectively) of fees/ charges/ taxes for the enhanced rate if any in future (including the rates revised retrospectively) of fees/ charges/ taxes for the enhanced rate if any in future (including the rates revised retrospectively) of fees/ charges/ taxes for the enhanced rate if any in future (including the rates revised retrospectively) of fees/ charges/ taxes for the enhanced rate if any in future (including the rates revised retrospectively) of fees/ charges/ taxes for the enhanced rate if any in future (including the parts of the enhanced rate). drawls of ground water on annual basis, should be borne by applications for operating their tube wells in a continuous manner.

31.10.10.16 FOZOA(88 1030,011.12

Geologist Member Secretary, District level Ground, Water Resource Development Authority, Burdwan

mowbow of Kanksa, 6080/8 wr-065, 1296 Tube well gora 150 100 Electric Inotor

8108.01.81

[See Rules 9(3) and 10(5)]

(EMBLEM OR HOLOGRAM OF THE CONCERNED AUTHORITY)

PERMIT FOR SINKING OF NEW WELL

[U/S 7(3)(b) / 7(4)(b) / 7(5)(a) of the West Bengal Ground Water Resources (Management, Control and Regulation) Act 2005.]

PERMIT NO PO216 051002520000001 TSE

1. (a) Name of the applicant (user)

(b) Son/Daughter of

8-1597

(c) Address of the applicant

(d) Category of farmer (Please tick) (in case of irrigation well)

(e) Serial No. of application Form and date of submission

(f) Specimen signature of the user

2. Location particulars---

(a) District

(b) Block, Mouza, J. L. No., Plot No.

(c) Municipality/Corporation Ward No. / Borough No., Holding No.

3. Particulars of the proposed well and pumping device---

(a) Type of the well

(b) Approx. depth of the well (m)

(c) Purpose of the well

(d) Assembly size (for tube well)

(e) Approx. strainer length (for tube well)

(f) Diameter (for dug well)

(g) Type of pump to be used

(h) H. P. of the pump

(i) Operational device

(i) Rate of withdrawal (m3/hr.)

(k) Maximum allowable running hours per day

: Shri/Smt. ESSAR OIL LIMITED

Light, Karrinsa, Brundwar

Small Farmer / Marginal Farmer / Others

S1.09 of B8/A 0507 St. 01.09.15

Ksa, Malandighi-048, plot-252

mm. X mm.

This permit authorizes the owner applicant (user) to sink a well in the location specified at S1. (2) for extraction of ground water at a rate not exceeding that as shown at S1. (3) (j) and for running hours / day as shown at S1. (3) (K), and is valid subject to the observance of the conditions stated overleaf.

Place: burawan

Date: 13.40,2015

OFFICE SEAL

Signature of the Issuing Authority District level Cand Designation Cource

Development Authority, Burdwan

Conditions:

(1) In case of any change of ownership of the proposed well, fresh registration has to be obtained.

No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at S1. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this permit.

In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.

(4) Any other condition imposed by the concerned Authority.

N.B: conditions are improved on the revense good of the certificate

B.C.L./4/50,000/'06

CONDITIONALITIES FOR PACKAGE DRINKING WATER PROJECTS AND INDUSTRIES **INFRASTRUCTURES:**

Roof Top Rain Water harvesting for Surface Storage.

Excavation of pond of size 150 ft. x 50ft. with 2 m. depth.

3. Chemical Quality Test Report from BIS approved Laboratory in each year to be submitted to the Geologist & Member Secretary, DLA.
4. The Certificate of Permit will be reviewed in every year from the date if issuance of Permit-based on local

hydrogeological conditions that may prevail afterwards.

Arrangement of Water Meter at the outlet of Tube Well discharge to be monitored by Govt. Officials as

assigned by DLA. 7 2 1
6. The enhanced rate if any in future (including the rates revised retrospectively) of fees/ charges/ taxes for drawls of ground water on annual basis, should be borne by applications for operating their tube wells in a

21.0010 12 Continuous manner.

Geologist Member Secretary, District level Ground, Water Resource Development Authority, Burdwan

framania 13/10/2015

Konksa, Malandighi-018, Electric Motor

3.106.01.8

Continuons or improd Too Liter to will to

ANNEXURE VI

		Month			Oct-24	Jan-25
			Onshore	CPCB Limit for	CDWPP at EDD-028	CDWPP at EDD-028
S. No.	Parameter	Unit	Discharge Standards	Discharge	Treated Water Analysis	Treated Water Analysis
1	pH		5.5-9.0	5.5 to 9.0	7.77	7.86
2	Temperature	deg. C	40 deg. C		29.4°C	21.7°C
3	Suspended Solids	mg/L	100	100	10	9
4	Total Dissolved Solids	mg/L	2100		1886	2028
5	Chlorides (as Chlorine)	mg/L	600		541	494
6	Sulphates (as SO ₄)	mg/L	1000		10.0	20.7
7	BOD, 3 Days at 27ºC	mg/L	30	30	15	13
8	COD	mg/L	100	250	92	86
9	Oil & Grease	mg/L	10	10	<5	<5
10	Phenolic Compounds (as C ₂ H ₅ OH)	mg/L	1.2	1	<0.001	<0.002
11	Sulphides (as S ₂)	mg/L	2	2	<0.5	0.74
12	Fluorides	mg/L	1.5	2	0.90	1.20
13	Chromium (Total)	mg/L	1	2	<0.05	<0.05
14	Zinc	mg/L	2	5	0.043	0.039
15	Copper	mg/L	0.2	3	<0.05	<0.05
16	Nickel	mg/L	3	3	<0.05	<0.05
17	Lead	mg/L	0.1	0.1	<0.1	<0.1
18	Mercury	mg/L	0.01	0.01	<0.001	<0.001
19	Cyanide	mg/L	0.2	0.2	<0.02	<0.02
20	Chromium (Cr+6)	mg/L	0.1	0.1	<0.01	<0.01
21	% Sodium	mg/L	60		55.3	57.3

ANNEXURE VII

	D			·		- 24 to Mar-25)		Lapioration and Frou		1 17 11 2221	
	Date of Sam Sample Identificati				15.11.2024 GW-420-2024	15.11.2024 GW-421-2024	15.11.2024 GW-422-2024	15.11.2024 GW-423-2024	15.11.2024 GW-424-2024	15.11.2024 GW-425-2024	15.11.2024 GW-426-2024
	Latitude & Lor				Lat:23°36'38.04"N, Long:87°20'09.0"E	Lat:23°37'34.06"N, Long:87°19'00.1"E	Lat:23°37'46.06"N, Long:87°20'15.07"E	Lat:23°37'15.04"N, Long:87°21'48.09"E	Lat:23°36'97.03"N, Long:87°23'43.02"E	Lat:23°36'31"N, Long:87°22'06"E	Lat:23°35'15.19"N, Long:87°22'08.05"E
S. No.	Parameter	Revision)- I	Specification(Second S:10500 -2012 and No. 4 November 2021 Permissible limit in the Absence of Alternate Source	Method of Analysis	Nachan Village near House of Arup Ghatak Tubewell	Bansia Village near ICDS Washpara Tubewell	Kalikapur Village near Durga Mandir Tubewell	Bargoria Village near EDD-003 Bauri Para Tubewell	Jatgoria Village (Near Mosjid-House of Sk Niashar) Tubewell	Kantaberia Village (Near ICDS) Tubewell	Dhabani Village near house of Sapan Bauri house Tubewell
1	Colour, Hazen Units	5	15	APHA 23 rd Edition, 2120 B	<5	<5	<5	<5	<5	<5	<5
2	pH Value	6.5-8.5	No relaxation	APHA 23 rd Edition, 4500-H ⁺ B	6.89	6.85	6.81	6.86	6.83	6.81	6.8
3	Turbidity, NTU	1	5	APHA 23 rd Edition, 2130B	<1	2.6	<1	<1	18.2	41	<1
4	Total Dissolved Solids, mg/L	500	2000	APHA 23 rd Edition, 2540 C	494	366	166	52	112	108	184
5	Total Suspended Solids, mg/L			APHA 23 rd Edition, 2540 D	<2	<2	<2	<2	5	12	<2
6	Aluminium (as Al), mg/L	0.03	0.2	APHA 23 rd Edition, 3500 -Al B	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
7	Ammonia (as total ammonia -N), mg/L	0.5	No relaxation	APHA 23 rd Edition, 4500-NH ₃ F	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
8	Anionic Detergents (as MBAS), mg/L	0.2	1	APHA 23 rd Edition, 5540 C	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
9	Barium (as Ba), mg/L	0.7	No relaxation	APHA 23 rd Edition, 3111 D	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
10	Boron (as B), mg/L	0.5	2.4	APHA 23 rd Edition, 4500-B C	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
11	Calcium (as Ca), mg/L	75	200	APHA 23 rd Edition, 3500-Ca B	91	42	28	6	11	9	29
12	Chloride (as CI), mg/L	250	1000	APHA 23 rd Edition, 4500 –Cl B	75	19	32	11	26	28	77
13	Copper (as Cu), mg/L.	0.05	1.5	APHA 23 rd Edition, 3111 B	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
14	Fluoride (as F), mg/L	1	1.5	APHA 23 rd Edition, 4500 –F ⁻ D	0.18	0.11	<0.05	<0.05	<0.05	<0.05	0.42
15	Free Residual Chlorine ,mg/L	0.2	1	IS 3025 (Part 26)-1986	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
16	Iron (as Fe), mg/L	1	No relaxation	APHA 23 rd Edition, 3500-Fe B	0.41	0.48	2.19	0.36	0.40	2.51	0.29
17	Magnesium (as Mg), mg/L	30	100	APHA 23 rd Edition, 3500-Mg B	31	14	10	3	5	4	10
18	Manganese (as Mn), mg/L, Max.	0.1	0.3	APHA 23 rd Edition, 3111 B	<0.05	<0.05	<0.05	<0.05	0.071	0.161	<0.05
19	Mineral Oil, mg/L, Max	1	No relaxation	IS 3025 (Part 39):1991	<1	<1	<1	<1	<1	<1	<1
20	Nitrate (as NO ₃), mg/L	45	No relaxation	APHA 23 rd Edition, 4500-NO ₃ -B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
21	Phenolic Compounds (as C ₆ H ₅ OH) ,mg/L	0.001	0.002	APHA 23 rd Edition, 5530 C	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
22	Sulphate (as SO ₄), mg/L, Max.	200	400	APHA 23 rd Edition, 4500-SO ₄ ² ·E	4.9	3.6	<2.5	<2.5	<2.5	<2.5	<2.5
23	Silver (as Ag), mg/L	0.1	No relaxation	APHA 23 rd Edition, 3111 B	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
24	Sodium (as Na), mg/L			APHA 23 rd Edition, 3500 -Na B	52	97	21	7	22	27	23
25	Selenium (as Se), mg/L	0.01	No relaxation	APHA 23 rd Edition, 3114 C	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
26	Cadmium (as Cd), mg/L	0.003	No relaxation	APHA 23 rd Edition, 3111 B	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
27	Cyanide (as CN), mg/L	0.05	No relaxation	APHA 23 rd Edition, 4500 -CN ⁻ E	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
28	Lead (as Pb), mg/L	0.01	No relaxation	APHA 23 rd Edition, 3111 B	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
29	Mercury (as Hg), mg/L	0.001	No relaxation	APHA 23 rd Edition, 3112 B	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
30	Total Arsenic (as As), mg/L	0.01	No relaxation	APHA 23 rd Edition, 3114 C	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Polynuclear aromatic hydrocarbons (as PAH), mg/L	0.0001	No relaxation	APHA 23 rd Edition, 6440 B	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
32	Pesticide Residues,µg/L	0.01	No relaxation	APHA 23 rd Edition, 6630 B&C	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
33	Total Coliform Count, MPN/100 mL	!	sample	IS 1622 : 1981 (Reaffirmed 2009)	<2	<2	<2	<2	<2	<2	<2
34	E.Coli, CFU/100 mL		tectable in any 100 ml	IS 1622 : 1981 (Reaffirmed 2009)	<2	<2	<2	<2	<2	<2	<2
35	Total Bacteria Count, CFU/100 mL		etectable in any 100 ml sample	IS 1622 : 1981 (Reaffirmed 2009)	Absent	Absent	Absent	Absent	Absent	Absent	Absent
36	Odour	Agreeable	Agreeable	IS: 3025 (Part 5) - 1983	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
37	Polychlorinated Biphenyls, mg/L	0.0005	No relaxation	APHA 23rd Edition, 6630	Not Detectable	Not Detectable	Not Detectable	Not Detectable	Not Detectable	Not Detectable	Not Detectable
38	Chloramines,mg/L	4	No Relaxation	APHA 23rd Edition, 4500 CI G	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
39	Molybdenum,mg/L	0.07	No Relaxation	APHA 23rd Edition, 3111 D	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
40	Sulphide,mg/L	0.05	No Relaxation	APHA 23rd Edition, 4500-S ²⁻ D	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
41	Electrical Conductivity at 25° C, µmhos/cm			APHA 23rd Edition, 2510 B	835	620	290	85	195	188	330
42	Phosphorus(as P), mgL			APHA 23rd Edition, 4500 P D	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
43	Nickel, mg/L	0.02	No Relaxation	APHA 23rd Edition, 3111 B	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
44	Total Chromium,mg/L	0.05	No relaxation	APHA 23rd Edition, 3111 B	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
45	Zinc,mg/L	5	15	APHA 23rd Edition, 3111 B	0.016	0.012	<0.01	<0.01	<0.01	<0.01	<0.01
46	Total Alkalinity as CaCO _{3,} mg/L	200	600	APHA 23rd Edition, 2320 B	367	306	114	33	61	53	53
47	Total Hardness,mg/L	200	600	APHA 23rd Edition, 2340 C	353	161	111	27	46	38	115
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(Period: Oct- 24 to Mar-25) Date of Sampling 15.11.2024 15.11.2024 15.11.2024 15.11.2024 15.11.2024 15.11.2024 Sample Identification Number GW-427-2024 GW-428-2024 GW-429-2024 GW-430-2024 GW-431-2024 GW-432-2024 Lat:23°34'59.02"N. Lat:23°34'27.0"N. Lat:23°35'12.03"N. Lat:23°34'59.03"N Lat:23°31'31.04"N. Lat:23°30'03.01"N. Latitude & Longitude Long:87°22'23.09"E Long:87°23'00.1"E Long:87°24'55.05"E Long:87°24'27.0"E Long:87°24'59.04"E Long:87°23'56.01"E **Drinking Water Specification(Second** Revision)- IS:10500 -2012 and Labnapara village near Akandara Village Near Saraswatiganj village Sarenga Village near Gopalpur near Amendment No. 4 November 2021 Ghatakdanga Village near S. No. Parameter Method of Analysis house of Sunil Kisku Adibasi Para (House of Sarenga Primary School House of Manik Monda Atchala Tubewell Tubewell Kishor Soren) Mandir Tubewell Tubewell Tubewell Requirement Permissible limit in the (Acceptable Absence of Alternate Limit) Source Colour, Hazen Units 15 APHA 23rd Edition, 2120 B <5 <5 <5 <5 <5 <5 2 pH Value 6.5-8.5 APHA 23rd Edition, 4500-H⁺ B 6.87 6.89 6.88 6.81 6.82 6.84 No relaxation 3 Turbidity, NTU <1 <1 <1 33 <1 <1 5 APHA 23rd Edition, 2130B 4 Total Dissolved Solids, mg/L 500 2000 APHA 23rd Edition, 2540 C 202 130 218 72 88 66 5 Total Suspended Solids, mg/L APHA 23rd Edition, 2540 D <2 <2 <2 9 <2 <2 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 6 Aluminium (as AI), mg/L 0.03 0.2 APHA 23rd Edition, 3500 -AI B 7 mmonia (as total ammonia -N), mg/L 0.5 No relaxation APHA 23rd Edition, 4500-NH3 F <0.1 <0.1 <0.1 <0.1 <0.1 < 0.1 0.2 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 8 Anionic Detergents (as MBAS), mg/L APHA 23rd Edition, 5540 C < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 9 Barium (as Ba), mg/L 0.7 No relaxation APHA 23rd Edition, 3111 D < 0.05 10 0.5 2.4 <0.5 <0.5 Boron (as B), mg/L <0.5 < 0.5 < 0.5 < 0.5 APHA 23rd Edition, 4500-B C 11 Calcium (as Ca), mg/L 75 200 34 20 28 9 11 14 APHA 23rd Edition, 3500-Ca B Chloride (as CI), mg/L 250 1000 91 42 81 13 19 9 APHA 23rd Edition, 4500 -CI B 13 0.05 1.5 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 Copper (as Cu), mg/L. APHA 23rd Edition, 3111 B 14 Fluoride (as F), mg/L 1.5 < 0.05 < 0.05 < 0.05 0.11 < 0.05 <0.05 APHA 23rd Edition, 4500 –F⁻D 15 Free Residual Chlorine ,mg/L 0.2 IS 3025 (Part 26)-1986 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 16 Iron (as Fe), mg/L No relaxation APHA 23rd Edition, 3500-Fe B 0.24 1.73 0.33 0.63 0.39 1.6 17 Magnesium (as Mg), mg/L 30 11 10 4 100 APHA 23rd Edition, 3500-Mg B 6 18 0.1 0.3 <0.05 < 0.05 < 0.05 0.125 < 0.05 <0.05 Manganese (as Mn), mg/L, Max. APHA 23rd Edition, 3111 B 19 Mineral Oil, mg/L, Max No relaxation IS 3025 (Part 39):1991 <1 <1 <1 <1 <1 <1 Nitrate (as NO₃), mg/L 45 No relaxation APHA 23rd Edition, 4500-NO₃ -B <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 Phenolic Compounds (as C₆H₅OH) 21 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 0.002 < 0.001 APHA 23rd Edition, 5530 C mg/L 22 Sulphate (as SO₄), mg/L, Max. 200 400 APHA 23rd Edition, 4500-SO₄²⁻E 3.3 <2.5 <2.5 <2.5 <2.5 <2.5 23 Silver (as Ag), mg/L 0.1 No relaxation APHA 23rd Edition, 3111 B <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 24 18 27 53 6 5 Sodium (as Na), mg/L APHA 23rd Edition, 3500 -Na B 25 Selenium (as Se), mg/L 0.01 < 0.005 <0.005 <0.005 <0.005 <0.005 < 0.005 No relaxation APHA 23rd Edition, 3114 C 0.003 < 0.003 <0.003 <0.003 < 0.003 <0.003 < 0.003 Cadmium (as Cd), mg/L No relaxation APHA 23rd Edition, 3111 B 27 <0.02 Cyanide (as CN), mg/L 0.05 No relaxation APHA 23rd Edition, 4500 -CN E <0.02 < 0.02 < 0.02 < 0.02 <0.02 28 0.01 <0.01 <0.01 <0.01 <0.01 Lead (as Pb), mg/L No relaxation APHA 23rd Edition, 3111 B < 0.01 < 0.01 0.001 < 0.001 <0.001 < 0.001 < 0.001 29 < 0.001 < 0.001 Mercury (as Hg), mg/L APHA 23rd Edition, 3112 B No relaxation 30 Total Arsenic (as As), mg/L 0.01 No relaxation APHA 23rd Edition, 3114 C <0.01 < 0.01 <0.01 <0.01 <0.01 olynuclear aromatic hydrocarbons (as 31 0.0001 No relaxation APHA 23rd Edition, 6440 B < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 PAH), mg/L Pesticide Residues,µg/L 32 0.01 APHA 23rd Edition, 6630 B&C <0.01 <0.01 <0.01 < 0.01 < 0.01 <0.01 No relaxation Shall not be detectable in any 100 ml <2 33 Total Coliform Count, MPN/100 mL S 1622 : 1981 (Reaffirmed 2009) <2 <2 <2 <2 <2 Shall not be detectable in any 100 ml E.Coli, CFU/100 mL <2 <2 <2 34 IS 1622: 1981 (Reaffirmed 2009) <2 <2 <2 sample Shall not be detectable in any 100 ml 35 Total Bacteria Count, CFU/100 mL IS 1622: 1981 (Reaffirmed 2009) Absent Absent Absent Absent Absent Absent sample 36 Odour Agreeable Agreeable IS: 3025 (Part 5) - 1983 Agreeable Agreeable Agreeable Agreeable Agreeable Agreeable 37 Polychlorinated Biphenyls, mg/L 0.0005 No relaxation APHA 23rd Edition, 6630 Not Detectable Not Detectable Not Detectable Not Detectable Not Detectable Not Detectable 38 Chloramines.mg/L No Relaxation APHA 23rd Edition, 4500 CLG < 0.1 < 0.1 < 0.1 <0.1 < 0.1 < 0.1 39 Molybdenum,mg/L 0.07 APHA 23rd Edition, 3111 D <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 No Relaxation 40 Sulphide,mg/L 0.05 <0.05 < 0.05 < 0.05 <0.05 <0.05 <0.05 No Relaxation APHA 23rd Edition, 4500-S²⁻ D Electrical Conductivity at 25° C, 41 375 130 120 APHA 23rd Edition, 2510 B 350 228 160 umhos/cm 42 Phosphorus(as P), mgL APHA 23rd Edition, 4500 P D <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 43 Nickel, mg/L 0.02 No Relaxation APHA 23rd Edition, 3111 B <0.02 < 0.02 < 0.02 <0.02 <0.02 <0.02 0.05 <0.05 <0.05 44 APHA 23rd Edition, 3111 B < 0.05 < 0.05 < 0.05 <0.05 Total Chromium,mg/L No relaxation 45 5 0.013 0.011 0.015 <0.01 15 APHA 23rd Edition, 3111 B 0.014 < 0.01 Zinc,mg/L 46 Total Alkalinity as CaCO_{3,} mg/L 200 600 APHA 23rd Edition, 2320 B 61 41 57 45 57 45 47 Total Hardness,mg/L 200 600 APHA 23rd Edition, 2340 C 131 81 111 38 42 58

ANNEXURE VIII



CertificateNo:SEVA/DMP/27/23

SANMARGENGINEERINGVALIDATIONANDASSESSMENTPVT.LTD.

This Certificate is issued to

Essar Oil and Gas Exploration and Production Limited, Durgapur

To certify that ERDMP of Essar Oil & Gas Exploration and Production Limited for its Associated Pipelines upto Customer End at Durgapur has been assessed with respect to the requirements of PNGRB Notification GSR 39(E) PNGRB Codes of Practices for Emergency Response and Disaster Management Plan (ERDMP) Regulations 2010 including Amendment Regulations 2020

ERDMP Certificate Valid from: 20th July 2023

ERDMP Certificate Valid upto: 19th July 2028

Audit Date: 26thApr- 27thApr 2023

Chapters: 31 Nos. Annexures: 19 Nos.

Audit report No: SEVA/2023/DMP/01/Essar-Durgapur

Document No: RG-CBM-HSE-PROC-004A Rev 03

Certificate is issued based on Compliance report submitted



ANNEXURE IX





To,

Mines Manager

Mines Name-RG(East)-CBM-2001/1

Essar Oil and Gas Exploration and Production Limited.

Sub: Occupational Health Surveillance Report.

In reference to the above subject, this is to certify that 34 employees of Essar Oil and Gas Exploration and Production Ltd., Durgapur have been medically examined under Mine Rule 29B (Form-O) in our Hospital- CITIZEN Hospital (Durgapur) for the period of Sep-2024 to till date.

There are no such Occupational diseases or Occupational health related issues reported in medical examination report.

List of the Employees have been Medically Examined as attached in Annexure-A.

Thanking you and assuring our best services at all time.

Yours Faithfully,

Dr. Subranil Sur

Reg. No. 97204

Citizen Hospital

Bidhan Nagar

Durgapur

Dr. Subhranil Sur Reg. No.-97204



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	Gautam Kumar Tibrewal	Name of Employee		Tapeshwar Soni	Guru Pada Manna	Gautam Kumar Tibrewal	Partha sarthi Mahalanobis	Aman Kumar	Sudipto Chakraborty	Anirban Baneriee	Umakanta Tamili	Pratik Didwania	Name of Employee			Santosh Shah	Biswajit Mahara	Raushan Kumar	Sanat Das	Amit Kumar	Aniket Ghoshal	Name of Employee		Aniket Ghoshal	Rishav Sharma	Rohit Ghosh	Umesh Kumar Sharma	Santanu Ghatak	Shaini Sinha	Faisal Ahmed	Md Amit Mansoori	Sriiani Pal	Sagar Dutta	Ayushman Banerjee	izalite of milpro/oc	Name of Employee		Arvind Gupta	Abhishekk Ganeriwala	Binod Kumar Singh	Naravan Mishra	Name of Employee	
	30005900	Employee code		30000685	30000624	30005900	30005525	30000659	30000423	30000396	30000335	30005943	employee code			30005498	30005866	30005768	30005756	30005312	30005707	Employee code		,											mily of town	Employee code		30005751		30005716	30005364	Employee code	
1	7574826742	Contact Number		636 7532743	8058509508	7574826742	7044380887	8847243115	8617396076	7001468912	9932854602	9163096222	Confdct Number			8001800908	9474643584	8797590480	9647646440	9399682215	7362997923	Contact Number		7362997923	6294099242	8927661689	9570201816	9735725389	7853069794	9460557313	9046006608	8017977521	0046543843	8013541450		Contact No		8518008534	9831012340	9576500096	9046007902	Contact No	MEDICAL
		Sex	MEDICAL TES					Male					Sex		MEDICAL TEST				Male			Sex	MEDICAL TES	Male	Male	Male	Male	Male	Female	Male	Male	Female	Male	Male		Sex	MEDICAL TES		Male			Sex	TEST LIST
	37	Age	T LIST - (PART	31	37	37	58	25	30	29	33	26	Age		T LIST - (PART	47	31	18	32	36	24	Age	T LIST - (PART	24	32	23	29	31	23	22	34	23	25	23	90	Age	T LIS	28	35	48	30	Age	(CITIZEN HOSPITAL)
1		Date of reporting	T-E)					19th Oct 2024					Date of reporting		T - D)				07th Oct 2024			Date of reporting	T-C)						47-dac-o7	20 502 24					9	Date of reporting	T - B)		21-Sep-24			Date of reporting	AL) - (PART - A)
		Reporting time						8:00 AM					time	Reporting					8:30 AM			Reporting time							UO.UUAIVI	00000					time	Reporting			8:00 AM			Reporting	
TIZ	EN	Location Diagnostic						Market) Bidhan nagar	Citizen Hospital, (Near DDA				Location Diagnostic					Market, Bidhan nagar	Citizen Hospital,Near DDA			Location Diagnostic							Market,Bidhannagar	Citizen Hospital ,Near DDA					moonaldii bingiioonia	Location Diagnostic				Citizen Hospital, Near DDA		Location Diagnostic	
Dr. Subhranii Sur MBBS Reg. No97204	Syn Showing due	Report Receiving Date				pending)	(Audiomettry test	2nd Nov 2024				2nd Nov 2024	Report receiving Date						12th Dec 2024			Report receiving Date							ZIIG NOV ZOZ4	352 8000					O Control of the Cont	Report receiving Date			2nd Nov 2024			Report receiving Date	

27th March 2025	Citizen Hospital, Near DDA Market, Bidhannagar	9:00AM	01at Mar 2025	28	Male	9933959214	APR	DEEP RATAN BHANDARY	_
Report Receiving Date	Location Diagnostic	Reporting time	Date of reporting	Age	Sex	Contact Number	Employee code	Name of Employee	SI.No.
			MEDICAL TEST LIST CITIZEN HOSPITAL - (PART - H)	TIZEN HOSPIT	L TEST LIST CI	MEDICA			
06th Mar 2025	Citizen Hospital, Near DDA Market, Bidhannagar	9:00AM	18th Feb 2025	30	Male	8653721609	30006500	lmran Gazi	
Report Receiving Date	Location Diagnostic	Reporting time	Date of reporting	Age	Sex	Contact Number	Employee code	Name of Employee	SI.No.
			ST LIST CITIZEN HOSPITAL - (PART - G)	TIZEN HOSPIT	L TEST LIST CI	MEDICAL TE			
CZOZ IPIAI IIJOO	Market, Bidhannagar	0.00NN	2010 0811 2020	37		9046007131	30006341	Pratik Sisodia	2
06+6 Mar 2025	Citizen Hospital, Near DDA	MV00.0	23rd Ian 2026	38	Male	9535143254	30006040	Shuvojit Basu	1
Report Receiving Date	Location Diagnostic	Reporting time	Date of reporting	Age	Sex	Contact Number	Employee code	Name of Employee	SI.No.
			RT - F)	DICAL TEST LIST - (PART - F)	MEDICAL TES				
				31		6202987497	30006265	Premdeep Sharma	5
	and, Didial lagar			22		6295808193	APR	Sumit Ghosh	4
2nd Jan 2025		9:00 AM	14th Dec 2024	24	Male	7076262448	30006060	Suman Ghosh	ω
				22		8617321674	30006064	Apurba Ghosh	2



Dr. Subhranii Sur MBBS Reg. No.-97204



GOURI DEVI HOSPITAL AND RESEARCH INSTITUTE

Rajbandh, G. T. Road, Durgapur - 713212, West Bengal Ph - (0343) 2520036, Mob. : 8001003333, 8001002222

E-mail: gdhri@rahul.ac.in

20th May, 2025

To
The Mines Manager
Mines Name-RG(East)-CBM-2001/1
Essar Oil and Gas Exploration and Production Limited

SUB:

Occupational Health Surveillance Report

Greetings from "Gouri Devi Hospital & Research Institute"

In reference to the above subject, this is to certify that 36 employees of Essar oil and gas exploration and production ltd.; Durgapur have been medically examined under Mine Rule 29B (Form-O) in our Hospital –Gouri Devi Hospital & Research Institute for the period of Sep.2024 to till date.

There are no such Occupational Diseases or Occupational Health related issues reported in the medical examination report.

List of the employees have been medically examined as attached in Annexure-A

Thanking you and assuring our best services at all times.

Yours faithfully,

For Gouri Devi Hospital & Research Institute

RAJBANDH \ DURGAPUR-12

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LANDARIAN ST. HONDARIAN ST.	
	2

	Report receiving Date									7/10/2024 (BILL PAID)										Report receiving Date			07th Jan 2025				Report Receiving Date							27th Dec 2024								Report Receiving Date		
	Location Diagnostic			į.					Gouri Devi Hospital	(Raibandh)										Location Diagnostic		Legisland International	(Raihandh)	(najbanun)			Location Diagnostic							(Reibendh)	(Najballuli)							Location Diagnostic		Court Davi Hasnifel
	Reporting time									9:00AM									- B)	Reporting			9:00 AM				Reporting							9:00 AM								Reporting time		
'AL PART - (A)	Date of reporting									25th Sep 2024									- (PHASE	Date of reporting			21st Nov 2024			RT - C)	Date of reporting							30th Nov 2024							RT - D)	Date of reporting		
DICAL TEST LIST GOURI DEVI HOSPITAL PART - (A)	Sex									Male									LIST GOURI DEVI HOSPITAL	Sex			Male			HOSPITAL - (PART	Sex							Male							HOSPITAL - (PART	Sex		
ST LIST G	Age	26	23			28				20			21	23	20	20	23			Age	32	27	33	31	34	GOURI DEVI	Age	28	41	26	45	3/	31	200	30	24	21	37	24	22	GOURI DEVI	Age	31	31
MEDICAL TE	Contact Number	7365035279	7001331949	6296217848	9907286716	9883723451	7908989470	9749847632	9732057726	8250500841	8603555381	8250296025	9641709595	8918039858	7551064032	8348971136	6201301977	6295808193	MEDICAL TEST	Contact Number	7908605532	9614913303	7786030845	7008489992		TEST LIST	Contact Number	8768809995	6202001541	7407472088	8340483736	8058509508	892/502409	7407430437	8418044817	8825334873	8094887397	7574826742	7076262448	8617321674	TEST LIST	Contact Number	6202987497	7708597347
	Employee code	APR	APR	APR	APR	APR	APR	APR	APR	APR	APR	APR	APR	APR	APR	APR	APR	APR		Employee code	30000314	30000370	30000589	30000614	30000686	MEDICAL	Employee code	30000325	30000371	30000392	30000590	30000624	3000083	30000712	30006081	30006033	30006032	30005900	30006060	30006064	MEDICAL	Employee code	30006265	30006273
	Name of Employee	ANUBHAB CHAKRABORTY	RAHUL PRASAD	SURYA PRATAP SINGHA	BASUDEB BAURI	SK SAHADAT ALI	PRITAM MURMU	SUSANTA MONDAL	RAHUL MONDAL	BUBAI CHANDRA MONDAL	PRANAY KR. CHOUDHARY	SUBHAJIT GHOSH	BAPAN DAS	KHADIMUL KOUM ANSARI	SOUVIK LAYEK	SUDIP MANDI	PRINCE RAJ	SUMIT GHOSH		Name of Employee	Sourav Sarkar	Subhojit Dey	Vivek Kumar Mishra	Anurag Kumar Sinha	Vikram Kumar		Name of Employee	Mahamadul Hassan	Ujjwal Kumar Mandal	Siddhartha Das	Anand Soren	Gurupada Manna	l apesnwar soni	Deepak D Pundekar	Jitendra Mishra	Subham Iba	Shikhar Mishra	Gautam Kumar Tibrewal	Suman Ghosh	Apurba Ghosh		Name of Employee	Premdeep Sharma	Ramkrishna Mondal
	SI.No.	1	2	3	4	2	9	7	_∞	6	10	11	12	13	14	15	16	17		SI.No.	-	2	8	4	5		SI.No.	-	2	ო	4	Ω (1 0	. 0	∞ α	0,0	2 7	12	13	14		SI.No.	1	2

STITUTE ON PRINCIPLE ON PRINCIP

07th Jan 2025 9:00 AM (Rajbandh) 20th Dec 2024 Male 23 23 20 7797939236 6201301977 7718541823 APR APR APR Arjit Mondal Prince Raj Md. Tajudin

0

ANNEXURE X



Environment Policy

Essar Oil and Gas Exploration and Production Limited (EOGEPL) reaffirms its commitment to a clean, safe and healthy environment and shall Operate its facilities across the business lifecycle of Exploration, Production, Transportation and distribution to customers and consumers in an environmentally sensitive and socially responsible manner.

To achieve the above obligation, EOGEPL has framed two distinct policies such as "HSE Policy" and "ESG policy" showing commitment towards environmental stewardship and ESG excellence and directing its employees and stakeholders to strive hard to:

- Comply and/or exceed all applicable environmental legislation(s) and standard industry practices and regulatory norms.
- Achieve Excellence in the areas of Health, Safety and Environment and community engagement by ensuring safe and healthy working conditions through following the best operating & HSE practices.
- Conserve natural resources by improving operational efficiency, reducing wastage(s), preventing pollution,
 and rational and sustainable use of water and other resources.
- Utilize energy resources in a responsible and efficient manner so as to reduce our environmental footprints.
- Integrate environmentally sound technologies and best industry practices for continual improvement in environmental performance by institutionalizing a robust Environment Management System.
- Establish an Administrative order to deal with the environmental issues and for ensuring compliance with the environmental and other statutory clearances
- Minimize land foot prints by adopting multi directional wells from single drilling pad and directional drilling technique.
- Proactively assess risks and opportunities and take business decisions to enable sustained environmental performances across all its operations and supply chain.
- Identify and address the climate change related risks through mitigation and adaptation measures.
- Integrate the conservation, protection and promotion of biodiversity with the principle of achieving "No net loss of biodiversity".
- Communicate this Policy & Inculcate environmental consciousness amongst all its stakeholders.
- Periodically review this policy for applicability, relevance, effectiveness and congruence with the continuously evolving business environment but not lesser than once in three years.

Place: Durgapur

Date: 5-July-2023

Pankaj Kalra

Chief Executive Officer

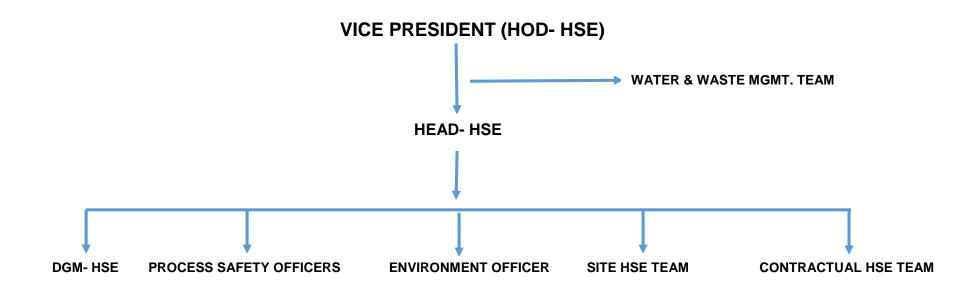
ANNEXURE XI

Expenditure towards Enterprise Social Commitment for CBM Project, Raniganj East operated by Essar Oil and Gas Exploration and Production Ltd.

	Period: Oct-24 to Mar-25	
Thematic Area	Activities	Expenditure (INR)
HEALTH	Community Health Care Services through Mobile Medical Van	15,06,972.00
EDUCATION	Basic Aminities support to 6 anganwari centre under Kanksa Block	7,07,026
TRAINING	Apprenticeship Training	18,38,262
SPORTS AND CULTURAL EVENT	Support to sport events	1,65,695.00
COMMUNITY INFRASTRUCTURE DEVELOPMENT	Support to community infrastructure development	1,58,01,052.00
ADMINISTRATIVE OVERHEAD	Administrative overheads are the expenses incurred by the company for general management and administration of CSR function.	12,78,037.00
	TOTAL	2,12,97,044.00

ANNEXURE XII

ENVIRONMENT MANAGEMENT CELL



ANNEXURE XIII

Expend	diture towards Environment Protection Measures for the CBM Proj Oil and Gas Exploration and Production I		operated by Essar
	Period: Oct-24 to Mar-25		
S. No.	Particular	Expens	es (INR)
3. NO.	Particular	CAPEX	OPEX
1	RO Units along with Pump Operation and Maintenance and Membrane cost	67,30,798.00	1,45,43,797.00
2	Central Drilling Waste Processing Plant and Mobile ETP	1,34,49,660.00	
3	Regular environment monitoring through NABL & MoEF&CC approved laboratory w.r.t. ambient air, noise level, GG/DG set stack emission, produced water, RO water, surface water, ground water quality, ground water level and soil.		6,15,451.00
4	Solid waste segregation, collection and disposal	••••	5,42,363.00
5	Toxicology analysis of drill cuttings/effluent		48,477.00
6	Green belt development and maintenance	••••	4,85,674.00
7	Bio-medical waste disposal		49,755.00
8	Hazardous waste disposal		5,71,217.00
9	HDPE Lining pit (impervious lined pit) at site to store produced water		22,29,650.00
	Grand Total	2,01,80,458.00	1,90,86,384.00

ANNEXURE XIV

The screenshot of EOGEPL portal uploaded with Six-monthly Compliance Report

ESSAR OIL & GAS	About Us 🗸	Operations >	Sustainability >	Media ➤	Careers	Contact Us
RG (East)-CBM-2001/1 (Phase-III) A	pr.2024 – Sep.2024					
RG (East)-CBM-2001/1 (Phase-III) O	ct.2023 – Mar.2024					
RG (East)-CBM-2001/1 (Phase-III) Ap	pr.2023 – Sep.2023					
RG (East)-CBM-2001/1 (Phase-III) O	ct.2022 – Mar.2023					
RG (East)-CBM-2001/1 (Phase-III) Ap	pr.2022 – Sep.2022					
RG (East)-CBM-2001/1 (Phase-III) O	ct.2021 – Mar.2022					
RG (East)-CBM-2001/1 (Phase-III) Ap	pr.2021 – Sep.2021					
RG (East)-CBM-2001/1 (Phase-III) O	ct.2020 – Mar.2021					
RG (East)-CBM-2001/1 (Phase-III) Ap	pr.2020 – Sep.2020					
RG (East)-CBM-2001/1 (Phase-III) O	ct.2019 – Mar.2020					
RG (East)-CBM-2001/1 (Phase-III) A	pr.2019 - Sep.2019					

ANNEXURE XV

Environmental Information Display Board placed near the Main Gate of the Office/MCS of Essar Oil and Gas Exploration and Production Ltd. (EOGEPL).

Photographs





ANNEXURE XVI

Six-monthly Compliance Report submitted to the Sob-Office MoEF&CC, Kolkata and Regional Office-WBPCB, Durgapur



Tue 31-12-2024 17:55

Samanta, Malay K. - EOGEPL - Durgapur

Submission of Six-monthly Compliance Report of EC Phase III and its amendments along with relevant annexures by Essar Oil and Gas Exploration and Production Ltd.

To iro.kolkata-mefcc@gov.in

1 You forwarded this message on 31-12-2024 18:10.

Message

A Six-monthly Compliance Report_EOGEPL_Phase III_April-24 - Sep-24.pdf

■ Six-monthly Compliance Report_EOGEPL

The Scientist- E Ministry of Environment, Forest and Climate Change Integrated Regional Office, Kolkata IB – 198, Sector-III, Salt Lake City, Kolkata – 700106

Sub: Submission of the Six-monthly Compliance Report of Environment Clearance, Phase- III and its amendments by Essar Oil Gas Exploration and Production Limited (EOGEPL) req.

Ref:

Environmental Clearance, Phase-III vide F. No. J-11011/491/2011-IA II (I) dated 26th February, 2013 and its amendments dated 27th

November, 2017; 9th May 2019 & 14th August, 2023.

Respected Ma'am,

With due respect, we submit herewith the Six-monthly Compliance Report of Environment Clearance (EC), Phase- III as mentioned above for the period of April-24 to September-24.

Kindly acknowledge and oblige.

Not Verified

Essar Oil and Gas Exploration and Production Ltd

Essar House - Durgapur Village & Post Office – Molandighi Block - Kanksa Durgapur Sub-Division Dist. - Paschim Bardhhaman Durgapur – 713212

> West Bengal India

CIN: U11203GJ2016PLC091903

E eogepl@essarenp.co.in www.essar.com

EOGEPL/ CBM-RG (E)/ HSE/2025/6405

04-02-2025

The Environment Engineer & In-charge Durgapur Regional Office West Bengal Pollution Control Board Sahid Khudiram Sarani, City Center Durgapur, Paschim Bardhaman 713216

Sub: Submission Six-monthly Compliance Report of the Environmental Clearance Phase-III and its amendments by Essar Oil Gas Exploration and Production Limited (EOGEPL) reg.

Ref: Environmental Clearance of Phase-III vide F. No. J-11011/491/2011-IA II (I) dated 26th February 2013 and its amendment dated 27th November 2017, 9th May 2019 & 14th August 2023

Dear Sir, Greetings!!

We submit herewith the six-monthly compliance report for the period of April-24 to Sep-24 w.r.t. the stipulated conditions of prior environmental clearance vide F. No. J-11011/491/2011-IA II (I), dated 26th February 2013 and its amendment dated 27th November 2017, 9th May 2019 & 14th August 2023.

Thank you for your continued support

For Essar Oil and Gas Exploration and Production Limited

Warm Regards,

Vikram Goday

Vikram Goday
Vice President & Head- Facilities
Raniganj East, CBM Project-Durgapur



Enclosed:

- i) Six-monthly compliance report, Period- April-24 to Sep-24
- ii) Annexure I, II, III, IV, V, VI, VII, IX. X. Annexure (Colly A), Annexure XI, XII, XIII, XIV, XV, XVI, XVII, XVIII, XIX, XX & XXI

ANNEXURE XVII



EOGEPL/CBM- RG (E)/ HSE/ 2024/6002 02-September-2024

The Environmental Engineer and In-Charge Durgapur Regional Office West Bengal Pollution Control Board Sahid Khudiram Sarani, City Centre Durgapur, Paschim Bardhaman 713216 Essar Oil and Gas Exploration and Production Ltd
Essar House- Durgapur
Village & Post Office- Molandigi
Block-Kanksa
Durgapur Sub-Division
Dist. Paschim Bardhhaman
Durgapur-713212
West Bengal

CIN: U11203GJ2016PLC091903

E <u>eogepl@essar</u>enp.co.in www.essar.com

Sub: <u>Submission of Environmental Statement for the Financial Year ending with</u> 31stMarch 2024.

Dear Sir,

Greetings from Essar Oil and Gas Exploration and Production Ltd. (EOGEPL)!

Please find attached herewith the Environmental Statement (Form V) for the Financial Year ending with 31st March 2024 for the Raniganj CBM Block- RG (East)- CBM-2001/1, Durgapur, West Bengal, operated by EOGEPL.

Kindly acknowledge and oblige.

Thanking you,

For Essar Oil and Gas Exploration and Production Limited

Vikram Goday

Vice President & Head- Facilities

Raniganj East, CBM Project-Durgapur

Raniganj East CBM Project Durgapur

Enclosed: i) Environmental Statement (Form V) for the Financial Year ending with 31st March 2024.

ii) Annexure- I, II, III, IV, V, VI, VII

Copy to:

The Regional Director, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, IB – 198, Sector-III, Salt Lake City, Kolkata – 700106.

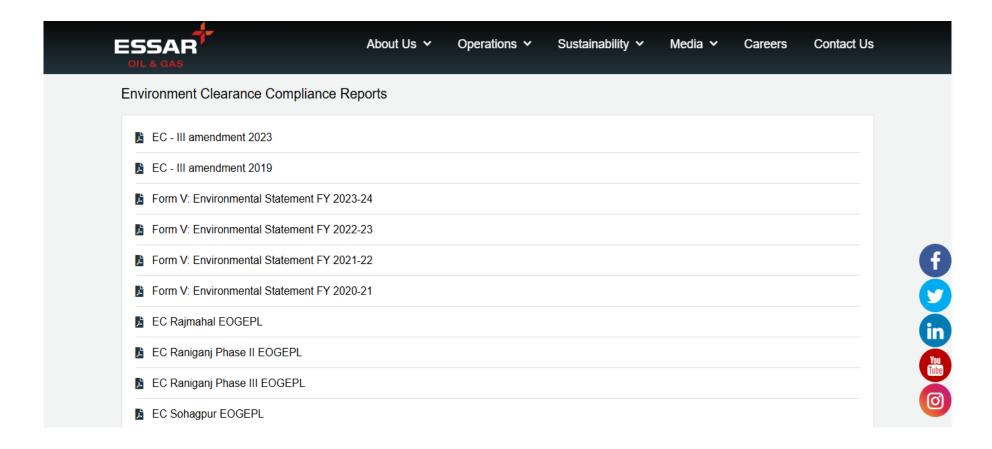
Essar Oil and Gas Exploration and Production Limited

Registered Office Address: F 20, Balaji Shopping, Wide Angle, Highway, Nagalpur, Mehsana, Gujarat -384002, India.

T +91 2762-244607 F +91 2762-244608

ANNEXURE XVIII

Screenshot of EOGEPL portal uploaded with Environmental Statement in Form V for the FY 2023-24.



ANNEXURE XIX

Screenshot of the submission of Environmental Statement in Form V (FY 2023-24) to Sub-office, Kolkata MoEF&CC.



Fri 06-09-2024 12:30

Samanta, Malay K - EOGEPL - Durgapur

Submission of the Environmental Statement (FORM V) for the Financial Year 2023-24

To "Sub Office Kolkata"

Message & Form V_FY 2023-24.pdf

Respected Sir/ Madam,

Greetings!

Environment Clearance vide F. No. J-11011/491/2011-14 IIII) dated 26th February. 2013. B General Conditions-xii) and subsequent amendments dated 27th November 2017, 9th May 2019 and 14th August 2023. Ref:

With reference to above, I submitted herewith the Environmental Statement (FORM V) for the Financial Year 2023-24 of the Raniganj East CBM Block, RG(East)-CBM-2001/1 operated by Essar Oil and Gas Exploration and Production Ltd. (EOGEPL).

Kindly acknowledge and oblige.

Thanking you,

With regards,

Malay Samanta,

ANNEXURE XX



Annexure XX

Awareness Campaign on "Ban of Single Use Plastic"

Location : MVT Center at GGS#2, Khatgoria

Date : 28.03.2025

Topic: i) Single use plastic pollution on the Environment and Health Impact

ii) Awareness on restraining the usage of single use plastic

iii) Jute bag distribution to all the participants.

Participants : Representatives from the different stake holders like GAIL, Matix Fertilizer, Shyam Steel Ltd.,

Local Forest Beat Office, Molandighi Police Station, Faridpur Police Station, Mission Hospital

and EOGEPL Employees.

Photographs

