

Ministry of Environment, Forest & Climate Change
Northern Region Office
Chandigarh-160030

Data Sheet

1.	Project Type	Isolated storage and handling of hazardous chemicals
2.	Name of the Project	Enhancement in storage capacity of petroleum product.
3.	Clearance letter (s) O.M. No. & Date	Environment Clearance has been granted by SEIAA, Punjab vide No. SEIAA/2019/55 dated 07.01.2019; copy of the same is attached along as Annexure 1 .
4.	Location	Jalandhar Petroleum Terminal, Suchi Pind
a)	District(s)	Jalandhar
b)	State (s)	Punjab
5.	Address for correspondence	M/s Indian Oil Corporation Ltd (MD), Storage Expansion at Jalandhar, Suchi Pind, Jalandhar, Punjab.
6.	Salient features	
a)	Of the Project	As per the EC letter, the project is an enhancement of the storage capacity of petroleum product from 1,28,800 KL to 3,19,874 KL. Enhancement done in the existing 110 Acre area of terminal. No new land area procured
b)	Of the environment	The total water requirement is 11.8 KLD. There is no generation of the trade effluent from the process. After expansion, about 8.2 KLD wastewater will be generated from washing bath/water bath/ Misc. plant operation and wastewater generated during the mock drill after conforming to the prescribed standards will be used for plantation purpose inside the premises. Domestic wastewater generated of about 6.2 m ³ /day will be treated in the STP and treated wastewater will be used for plantation purpose. Total solid waste generated will be 55 kg/day, out of which 40 kg/day will be dry garbage which will be handed over to the authorized recyclers and 15 kg/day will be the wet garbage which will be utilized for composting and manure in the gardening.
7.	Break up of the Project Area	--
a)	Submergence area	Not applicable
8.	Break up of project affected population with enumeration of	Not applicable

	those losing houses/ dwelling units only, agricultural land only both dwelling units and agricultural land and landless laborers/ land landless laborers/ artisans.															
a)	SC/ST/ Adivasis	Not applicable														
b)	Others (Please indicate whether these figures are base on any scientific and systematic survey carried out or only provisional figures. if a survey has been carried out give details and year of survey)	Not applicable														
9.	Financial details															
a)	Project cost as originally planned and subsequent revised estimates and the year of price reference.	Rs. 118.22 crores (Approx.)														
b)	Allocations made for environmental management plan with item wise and year of assessment.	The proposed expenditure on the environment management plan is given below: <table border="1" data-bbox="755 1045 1404 1474"> <thead> <tr> <th>Particulars</th> <th>Capital Rs. Lac</th> </tr> </thead> <tbody> <tr> <td>STP (Pretreatment)/ Bioremediation</td> <td>5.00</td> </tr> <tr> <td>Rain Water Harvesting</td> <td>1.50</td> </tr> <tr> <td>Health Care & Plant Safety</td> <td>26.0</td> </tr> <tr> <td>Environmental Monitoring plan</td> <td>3.50</td> </tr> <tr> <td>Peacock Conservation Plan</td> <td>0.40</td> </tr> <tr> <td>Total</td> <td>36.4</td> </tr> </tbody> </table>	Particulars	Capital Rs. Lac	STP (Pretreatment)/ Bioremediation	5.00	Rain Water Harvesting	1.50	Health Care & Plant Safety	26.0	Environmental Monitoring plan	3.50	Peacock Conservation Plan	0.40	Total	36.4
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c)	Benefit cost ratio/ Internal rate of return and year of assessment.	Will be submitted separately.														
d)	Whether (c) includes the cost of environmental management as shown in (b) above.	Yes the cost benefit ratio will be worked out considering the cost of environment management.														
e)	Actual expenditure incurred on the project so far.	Expenditure on the project is Rs. 87,564,854.35 till 30 th September 2021														
f)	Actual expenditure incurred on the environmental management plans so far.	Expenditure incurred on EMP is Rs. 7,100,151.27 till 30 th September 2021														
10.	Forest lands requirement:	Not applicable														

a)	The status of approval for diversion of forest land for non forestry use.	Not applicable
b)	The status of clear felling.	Not applicable
c)	The status of compensatory a forestation programmer in the light of actual field experience so far.	Not applicable
11.	The status of clear felling in non forest areas (such as submergence area of reservoir, approach road) if any, with quantitative information.	Not applicable
12.	Status of construction	Construction work of the project is completed. Commissioning in progress. Photographs showing the same are enclosed as Annexure 2.
a)	Date of commencement (actual and/ or planned).	January,2019
b)	Date of completion (actual and/ or planned).	28 th September,2021
13.	Reasons for the delay if the project is yet to start:	Not applicable

Compliance Report on the conditions imposed on Environmental Clearance for the period ending 31.03.2021

I. Statutory Compliance:

S. No.	Conditions	Reply
i.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	Not applicable, as no forest land/diversion of forest land is involved.
ii.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	The project lies outside the eco-sensitive zone of any Sanctuary. Thus, NBWL clearance is not required for the said project.
iii.	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six- monthly compliance report, (in case of the presence of Schedule-I species in the study area).	Not applicable, in view of above point.
iv.	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.	Consent to operate for air and water for existing facility has been obtained and is valid till 31.03.2025. Copy of same is enclosed as Annexure 3 .
v.	The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-a-vis the project location and the recommendations or comments of the Chief Wildlife Warden- thereon.	Agreed. There is no national Park/ Biosphere reserve present within 10 km radius of the project.

vi.	Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	Agreed. All applicable approvals will be obtained w.r.t. expansion. Hazardous waste authorization for existing facility has been obtained from PPCB which was valid till 31.03.2021. Copy of same is enclosed as Annexure 4 Further, renewal of application has been filed.
vii.	During construction phase, air pollution and solid waste management aspects need to be properly addressed ensuring compliance of the Construction and Demolition Waste Management Rules, 2016.	Agreed. The construction waste wherever generated is managed as per Construction and Demolition Rules, 2016.
viii.	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	Agreed. License for storage of petroleum has already been obtained for PESO. Copy of approval is enclose as Annexure 5 .
ix.	The company should obtain all requisite clearances for fire safety and explosives and should comply with the stipulation made by the respective authorities.	Agreed. License for storage of petroleum has already been obtained for PESO. Copy of approval is enclose as Annexure 5 .
x.	Necessary approvals from Chief Controller of Explosives must be obtained before commission of project, if applicable.	Agreed. License for storage of petroleum has already been obtained for PESO. Copy of approval is enclose as Annexure 5 .
xi.	Necessary permissions from the Central Ground Water Authority (CGWA)/ State Ground Water Authority (SGWA)/concerned authority for the abstraction of ground water for the existing requirements as well as for the expanded unit. In case of not allowing such permission by the concerned authority for the abstraction of additional ground water for the expanded project, the project proponent shall propose alternative arrangements to meet out	Agreed. The application for abstraction of groundwater has been filed to CGWA. But as per latest notification, CGWA is not processing groundwater application for Punjab state. Thus, the application will be filed to PWRDA.

	<p>the additional water requirements. It shall be ensured that: -</p> <p>a. In the projects where ground water is proposed as water source, the project proponent shall apply to the Central Ground Water Authority (CGWA)/ State Ground Water Authority (SGWA), as the case may be, for obtaining No Objection Certificate (NOC) if applicable.</p> <p>b. Approval /permission of the CGWA/SGWA shall be obtained before drawing ground water for the project activities.</p>	
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Air Quality Monitoring and Preservation:

S. No.	Conditions	Reply
i.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16 th November, 2009 shall be complied with.	Agreed. It shall be complied.
ii.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Agreed.
iii.	Regularly monitoring of VOC and HC in the work zone area in the plant premises should be carried out and data be submitted to Ministry's Regional Office, CPCB and State Pollution Control Board. Quarterly monitoring for fugitive emissions should be carried out as per the guidelines of CPCB and reports submitted to Ministry's Regional Office.	Agreed. As a part of SOP of IOCL, daily HC and Oxygen level are being monitored at the work station and work permit is issued to ensure the safe working condition. Copy of record showing HC and oxygen level monitored on daily basis for the same is enclosed as Annexure 6 .
iv.	During storage and handling, the fugitive emission of methane, if any, shall be monitored using Infra-red camera/ appropriate technology.	Not Applicable.
v.	The project proponent also to ensure trapping/storing of the CO ₂ generated, if any, during the process and handling.	Noted.

vi.	The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.	Agreed. Adequate stack height as well as acoustic enclosure is being provided to DG sets as per PPCB norms.
vii.	Water sprinkling has to be undertaken on regular basis to control the polluting particles.	Agreed.
viii.	Whole of the vehicle movement area as well as approach road to the gate /weighing bridge shall be paved with pucca / metalled / cement concrete road to control the dust emissions expected from the vehicle movement.	Agreed.

Water Quality Monitoring and Preservation:

S. No.	Conditions	Reply
i.	The project proponent shall ensure Zero Liquid Discharge and shall treat the domestic effluent in a properly designed septic tank & treated domestic effluent will be utilized for gardening purposes within premises.	There is no generation of the trade effluent from the process. Wastewater generated during the mock drill after conforming to the prescribed standards will be used for plantation purpose inside the premises. Domestic wastewater generated will be treated in the STP and treated wastewater will be used for plantation purpose.
ii.	The project proponent shall collect waste water generated during the mock drill, spillage / washing of floors etc. and the same shall be treated in mechanical oil separator. Recovered oil shall be re-used and treated waste water conforming to the prescribed standards shall be discharged for plantation purpose inside the premises.	There is no generation of the trade effluent from the process. Wastewater will be generated from washing bath/water bath/ Misc. plant operation and wastewater generated during the mock drill after conforming to the prescribed standards will be used for plantation purpose inside the premises.
iii.	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.	Agreed. 14398 sq. meter available catchment area has been covered with RWH system

Noise Monitoring and Prevention:

S. No.	Conditions	Reply
i.	Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Agreed. Acoustic enclosure for DG sets has been provided.
ii.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.	Agreed. Noise level in and around the plant are being kept well within the standards. Recent ambient noise monitoring has been conducted and reports of same is enclosed as Annexure 7 .
iii.	The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Agreed. Ambient noise will not exceed the prescribed limit.

Energy Conservation Measures:

S. No.	Conditions	Reply
i.	The energy sources for lighting purposes shall preferably be LED based.	Agreed. LED lights are being used for lightening purpose.

Waste Management:

S. No.	Conditions	Reply
i.	Oil spillage prevention and mitigation scheme shall be prepared. In case of oil spillage/contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers/reprocessors/co-processors (like cement kiln) etc. In case of non-disposal of hazardous waste through authorized reprocessor/co-processor due to any scientific reason, same may be given to the authorized Common Storage, Treatment & Disposal Facility (CSTDF).	Agreed. About 0.25 MT oil water sludge will be generated from cleaning of storage tanks once in five years which will be handed over to authorized recyclers. Used oil and petroleum sludge of existing plant is handed over to Nimbua Greenfield (Punjab)Limited. Copy of agreement for disposal of used oil and petroleum sludge done with Nimbua Greenfield (Punjab) Limited is enclosed as Annexure 8 .

Green Belt:

S. No.	Conditions	Reply
i.	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Agreed. Adequate green belt shall be developed in the plant area.

Safety, Public Hearing and Human Health Issues:

S. No.	Conditions	Reply
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and guidelines prepared by OISD, DGMS and Govt. of India. Mock drill should be conducted once in a month. onsite and off-site Disaster Management Plan shall be implemented.	All the provisions for risk management as proposed for expansion will be provided in the project.
ii.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Agreed & accepted. Regular training has been imparted to employees on safety and health aspects of chemicals handling. Departmental trainings on SOPs are being provided time to time. The same will be followed for expansion also. Further, periodical medical examination has also been undertaken in the premises. Copy of medical record is enclosed as Annexure 9.
iii.	Additional safety measures should be taken by using remote operated shut off valve, double block & bleed valve (DBB), impervious dyke wall and un-bonded flexible roof drain pipe, if applicable.	Agreed.
iv.	High and low-level alarms shall be fitted to plant storage tanks which can detect overfilling. However, proper supervision shall be done every time.	Agreed.

v.	Unit should carry out safety audit and report submitted to the Regional Office.	Agreed. Regular safety audit has been conducted. Safety work permit are being issued after doing inspection at site. Copy of work permit is enclosed as Annexure 10.
vi.	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, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Agreed. Safe drinking Water facility, Washrooms/Toilets have been provided for contract workers,
vii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Agreed. Health surveillance has been done on regular basis and records are maintained for the same.

Corporate Environment Responsibility:

S. No.	Conditions					Reply
i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, regarding Corporate Environment Responsibility and shall adhere to the following commitments: -					Agreed. Rs. 6,92,999/- has been spent on CSR activities till 30.09.2021.
	S. No.	Stage of the project	Budgetary allocation	CER activity to be conducted		Completion target period
				Activity to be taken up	Initiation of activity	
	i.	Before commencement of project	Rs. 25,000/-	Women empowerment	Before commencement of project	Before commencement of project (March- 2019)
	ii.	First half after commencement of project. (April - September 2019)	2% of budget spent during project period	Health and medical facility	Proposals for these activity heads shall be invited from Gram panchayat, and after	September - April 2019/20
	iii.	Second half after commencement of project. (September - April 2019/20)	2% of budget spent during project period	Drinking water facility	deliberation and consideration of Corporate policy, same shall be implemented.	April - September 2020
	iv.	Third half after commencement of project. (April - September 2020)	2% of budget spent during project period	Drainage and Sanitation facility		September - April 2020/21
						Activities conducted under CSR are as follows: a. PET bottle flaking machine was installed at Sultanpur Lodhi, Kapurthala, =Rs. 492999/- b. Masks, sanitizer and hand gloves distribution during COVID-19 near location,

	v.	Fourth half after commencement of project. (September - April 2020/21)	2% of budget spent during project period - Rs. 25,000/- (Spent before commencement of project)	Education facility		April - September 2021	<p>= Rs. 25000/-</p> <p>c. Raw Food items distribution during COVID 19, -Rs. 25000/-</p> <p>d. Distribution of ready to eat food packets to TT crew transporting fuel to Leh and Kargil facing harsh environmental conditions- Rs 1,50,000/-.</p> <p>Photograph showing the same is enclosed as Annexure 11.</p>
ii.	<p>The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.</p>						<p>Agreed.</p> <p>Environment policy shall be implemented.</p> <p>Environment management Cell has already been constituted.</p> <p>Copy of Environment policy of the company is enclosed as Annexure 12.</p>
iii.	<p>A separate Environmental Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.</p>						<p>Agreed.</p> <p>Environment Management Cell has been set up to carry out the Environmental Management and Monitoring functions.</p>

iv.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.	Agreed. The amount will be spent accordingly as mentioned in the submitted application.
v.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Agreed

Miscellaneous:

S. No.	Conditions	Reply
1.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition, this shall also be displayed in the project proponent's website permanently.	Agreed. Advertisement has been published in the newspaper. Copy of the advertisements published in the newspaper is attached along as Annexure-13 . Further, the EC has been uploaded in the website of the company. Screenshot showing the same is enclosed as Annexure-14 .
2.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Agreed
3.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Agreed.
4.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.	Agreed.
5.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Agreed. The environment statement for existing facility each financial year in Form-V has been submitted to the Punjab Pollution Control Board. Copy of Form V submitted for last two years (2020 & 2021) are enclosed as Annexure 15 . The same will be complied for the expansion also.
6.	The criteria pollutant levels or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient	Monitoring has done periodically. Recent monitoring has been carried out and all the parameters

	location near the main gate of the company in the public domain.	are within the permissible limits. Test Reports for recent monitoring report is attached along as Annexure 16.
7.	The project proponent shall inform the Regional Office of the Ministry and PPCB, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Agreed.
8.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Agreed. Stipulations made by the State Pollution Control Board and the State Government are being followed strictly.
9.	The project proponent shall abide by all the commitments and recommendations made in the EIA /EMP report, commitment made during Public Hearing and also that during their presentation to the State Expert Appraisal Committee and SEIAA.	EMP report submitted in the application will be adhered.
10.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Agreed.
11.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed.
12.	The SEIAA/Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed.
13.	The SEIAA/ Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time-bound manner shall implement these conditions.	Agreed.
14.	The Regional Office of this Ministry and Punjab Pollution Control Board shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office and PPCB by furnishing the requisite data / information/monitoring reports.	Agreed. Full cooperation will be extended to the officer of the Regional Office by furnishing the requisite data / information/ monitoring reports.
15.	The above conditions shall be enforced, inter-	Agreed.

	<p>alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.</p>	
16.	<p>Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.</p>	Agreed.

Additional Conditions:

S. No.	Conditions	Reply
1.	<p>Traffic congestion near the entry and exit points from the roads adjoining the project site must be avoided. Parking should be fully internalized and no public space should be utilized.</p>	Agreed. Parking facility are being provided within the premises and no public space are being utilized.
2.	<p>The project proponent shall use only treated waste water for the construction purposes instead of utilizing fresh water.</p>	Agreed.