



# STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,  
Room No. 217, 2nd floor,  
Mantralaya, Annexe,  
Mumbai- 400 032.  
Date: May 12, 2017

To,  
**Mr. Ajit Mishra (Head Marketing)**  
at KhasraNo:108/109/110/111/112/113/115/ 119A1/119A2/119A3/119A4/119A5/119B, Neemgaon Wardha.

**Subject:** Environment Clearance for Development of Greenfield Petroleum Storage Depot of M/s Essar Oil Limited near Dahegoan Railway Station, District Wardha

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee-I, Maharashtra in its th meeting and recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its Meeting Number 111th meetings.

2. It is noted that the proposal is considered by SEAC-I under screening category 6b (Isolated Storage and Handling of Hazardous Chemicals) as per EIA Notification 2006.

## Brief Information of the project submitted by you is as below :-

1.Name of Project	Development of Greenfield Petroleum Storage Depot of M/s Essar Oil Limited
2.Type of institution	Private
3.Name of Project Proponent	Mr. Ajit Mishra (Head Marketing)
4.Name of Consultant	Ultra-Tech Environmental Consultant and Laboratory
5.Type of project	Industrial Project categorised as 6(b), 'B' as per EIA Notification 2006 and its further amendments
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	KhasraNo:108/109/110/111/112/113/115/ 119A1/119A2/119A3/119A4/119A5/119B, Neemgaon Wardha.
9.Taluka	Wardha
10.Village	Neemgaon
11.Whether in Corporation / Municipal / other area	Other area, Village Neemgaon, Taluka Wardha, District Wardha
12.IOD/IOA/Concession/Plan Approval Number	We are PESO approved IOD/IOA/Concession/Plan Approval Number: NA Approved Built-up Area: 4735
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA permission from Tehsil
15.Total Plot Area (sq. m.)	Approximately 51.92 Acres
16.Deductions	NA

**SEIAA Meeting No: Meeting Number 111 Meeting Date: May 11, 2017 ( SEIAA-STATEMENT-0000000244 )**  
**SEIAA-MINUTES-0000000164**  
**SEIAA-EC-0000000109**

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**Shri. Anil Diggikar (Member Secretary SEIAA)**

17.Net Plot area	Approximately 51.92 Acres
18 (a).Proposed Built-up Area (FSI & Non-FSI)	FSI area (sq. m.): NA
	Non FSI area (sq. m.): NA
	Total BUA area (sq. m.): 4735 m2
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.):
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	NA
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA
21.Estimated cost of the project	1009200000



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22.Production Details				
Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Motor Spirit (MS)	0	6 x 2000	12000
2	High Speed Diesel (HSD)/ Superior Kerosene Oil (SKO)	0	6 x 4000	24000
3	Ethanol	0	2 x 20	40
4	Slop	0	2 x 70	140
23.Total Water Requirement				
Dry season:	Source of water	Proposed Borewell		
	Fresh water (CMD):	17		
	Recycled water - Flushing (CMD):	0		
	Recycled water - Gardening (CMD):	8		
	Swimming pool make up (Cum):	0		
	Total Water Requirement (CMD) :	25		
	Fire fighting - Underground water tank(CMD):	0		
	Fire fighting - Overhead water tank(CMD):	5850		
	Excess treated water	0		
Wet season:	Source of water	Proposed Borewell		
	Fresh water (CMD):	17		
	Recycled water - Flushing (CMD):	0		
	Recycled water - Gardening (CMD):	0		
	Swimming pool make up (Cum):	0		
	Total Water Requirement (CMD) :	17		
	Fire fighting - Underground water tank(CMD):	0		
	Fire fighting - Overhead water tank(CMD):	5850		
	Excess treated water	0		
Details of Swimming pool (If any)	Not applicable			

## 24.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Fresh water requirement	0	17	17	0	9	9	0	8	8
Industrial Process	0	7	7	0	7	7	0	0	0
Domestic	0	10	10	0	2	2	0	8	8
Gardening	0	8	8	0	8	8	0	0	0

### 25.Rain Water Harvesting (RWH)

Level of the Ground water table:	3 - 10 meters
Size and no of RWH tank(s) and Quantity:	Earthen pond of 1800 m3
Location of the RWH tank(s):	NW side of the plot
Quantity of recharge pits:	3
Size of recharge pits :	As per requirement of CGWA
Budgetary allocation (Capital cost) :	Included within landwork, no additional cost envisaged as it is an Earthen Pond
Budgetary allocation (O & M cost) :	NA
Details of UGT tanks if any :	Under Ground Storage tanks for Ethanol (Horizontal) of 2 x 20 m3

### 26.Storm water drainage

Natural water drainage pattern:	Towards North and East
Quantity of storm water:	6400 m3/Day
Size of SWD:	As needed towards the North and east earthen pond

### 27.Sewage and Waste water

Sewage generation in KLD:	8 KLD
STP technology:	Sequential Batch Reactor (SBR) technology
Capacity of STP (CMD):	1 of 10m3/day
Location & area of the STP:	Near Canteen Building
Budgetary allocation (Capital cost):	9 lakhs
Budgetary allocation (O & M cost):	4 lakhs/Annum

## 28.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Negligible
	<b>Disposal of the construction waste debris:</b>	NA
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	6 Kg/day
	<b>Wet waste:</b>	2.5 Kg/day
	<b>Hazardous waste:</b>	5 MT of Sludge Waste every 5 years during Storage Tanks cleaning (approx)
	<b>Biomedical waste (If applicable):</b>	Nil
	<b>STP Sludge (Dry sludge):</b>	0.5 kg/day
	<b>Others if any:</b>	Nil
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	As per local MSW Rules
	<b>Wet waste:</b>	Vermi Composting and manure usage to gardening
	<b>Hazardous waste:</b>	CHWTSDF at Mandwa, Nagpur
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	Composting and manure usage to gardening
	<b>Others if any:</b>	NA
<b>Area requirement:</b>	<b>Location(s):</b>	NA
	<b>Area for the storage of waste &amp; other material:</b>	NA
	<b>Area for machinery:</b>	NA
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	NA
	<b>O &amp; M cost:</b>	NA

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## 29.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	5.5 to 7.5	7.5 to 8	7.5 to 8
2	Total Suspended Solids	mg/L	100	<100	<100
3	BOD	mg/L	500	<100	<100
4	COD	mg/L	800	<250	<250
5	Total Dissolved Solids	mg/L	400	<200	<2100
6	Oil and Grease	mg/L	20	<10	<10
Amount of effluent generation (CMD):		8			
Capacity of the ETP:		Oil Water Separator capacity of 55 m3/hr			
Amount of treated effluent recycled :		As recovered from OWS			
Amount of water send to the CETP:		NA			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		Oil Water Sepearator			
Disposal of the ETP sludge		Shall be sent to CHWTSDF Mandwa			

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30.Hazardous Waste Details							
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Oil Water Sludge	34.3	MT	0	5 MT per year (approx)	5 MT per year (approx)	CHWTSDF at Mandwa, Nagpur

31.Stacks emission Details						
Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Stack Attached to DG set	Diesel	1	Above Roof 6m	0.3	160
2	Stack Attached to DG set	Diesel	1	Above Roof 6m	0.3	160

32.Details of Fuel to be used				
Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	0	100 L/Day	100 L/Day

33.Source of Fuel	Authorised supplier
34.Mode of Transportation of fuel to site	By road

35.Energy		
<b>Power requirement:</b>	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	2200 kW
	DG set as Power back-up during construction phase	2 DG sets of 900 kVA
	During Operation phase (Connected load):	Same as Above
	During Operation phase (Demand load):	Same as Above
	Transformer:	NA
	DG set as Power back-up during operation phase:	2 DG sets of 900 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA
<b>Energy saving by non-conventional method:</b>		
PV panels on admin block admeasuring 200 m2 to generate about 20 kW energy		
<b>36.Detail calculations &amp; % of saving:</b>		

Serial Number	Energy Conservation Measures	Saving %
1	Solar Energy	20 kW

### 37.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air Pollution	NA	DG Sets stack as per CPCB guidelines to be provided, Water Sprinkling will be carried on regular basis
Water Pollution	NA	Oil Water Separator will be provided, Sewage Treatment Plant will be provided for domestic waste
Noise Pollution	NA	Acoustic enclosure will be provided for DG sets, PPEs for Noise pollution shall be provided
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	5 lacs
	O & M cost:	0.5 lacs/Annum

### 38.Environmental Management plan Budgetary Allocation

#### a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Expenditure on Environmental Management	All Enviromental aspects	As required

#### b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Expenditure on Environmental Management	Environmental Aspects	2385	95

### 39.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Motor Spirit (MS)	Proposed	Within Premises	12000	12000	6250	Refinery at Jamnagar (Gujarat)	Railway Wagons
High Speed Diesel (HSD)/ Superior Kerosene Oil (SKO)	Proposed	Within Premises	24000	24000	18750	Refinery at Jamnagar (Gujarat)	Railway Wagons
Ethanol	Proposed	Within Premises	40	40	313	Refinery at Jamnagar (Gujarat)	Railway Wagons
Slop	Proposed	Within Premises	140	140	Not Applicable	Refinery at Jamnagar (Gujarat)	Railway Wagons



#### 40.Any Other Information

No Information Available



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	<b>CRZ/ RRZ clearance obtain, if any:</b>	NA
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	Nothing with 15 Km
	<b>Category as per schedule of EIA Notification sheet</b>	6b (Isolated Storage and Handling of Hazardous Chemicals)
	<b>Court cases pending if any</b>	No
	<b>Other Relevant Informations</b>	There is no manufacturing process involved in the Depot. The Rail Fed POL Depot shall be handling and storing various finished petroleum products
	<b>Have you previously submitted Application online on MOEF Website.</b>	Yes
	<b>Date of online submission</b>	28-04-2016

**3. The proposal has been considered by SEIAA in its Meeting Number 111th meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:**

**Specific Conditions:**

**General Conditions:**

<b>I</b>	(i)PP to achieve Zero Liquid Discharge ; PP shall ensure that there is no increase in the effluent load to CETP.
<b>II</b>	73 TPH boiler should have stack height of 68m and flue gases shall be passed through an ESP of 99.9% efficiency before being led into the 68 m stack.
<b>III</b>	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
<b>IV</b>	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
<b>V</b>	Proper Housekeeping programmers shall be implemented.
<b>VI</b>	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.
<b>VII</b>	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).
<b>VIII</b>	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
<b>IX</b>	Arrangement shall be made that effluent and storm water does not get mixed.
<b>X</b>	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
<b>XI</b>	Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
<b>XII</b>	The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
<b>XIII</b>	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
<b>XIV</b>	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.

<b>XV</b>	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
<b>XVI</b>	(The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
<b>XVII</b>	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
<b>XVIII</b>	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
<b>XIX</b>	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
<b>XX</b>	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department
<b>XXI</b>	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <a href="http://ec.maharashtra.gov.in">http://ec.maharashtra.gov.in</a>
<b>XXII</b>	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
<b>XXIII</b>	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation 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 website of the Company by the proponent.
<b>XXIV</b>	The proponent shall upload the status of compliance of the stipulated EC 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 MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
<b>XXV</b>	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
<b>XXVI</b>	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 EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

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4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.

5. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.

6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF&CC Notification dated 29th April, 2015.

8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

10. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D- Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Shri. Anil Diggikar (Member Secretary SEIAA)

**Copy to:**

1. SECRETARY MOEF & CC
2. IA- DIVISION MOEF & CC
3. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI
4. REGIONAL OFFICE MOEF & CC NAGPUR
5. MUNICIPAL COMMISSIONER NAGPUR
6. REGIONAL OFFICE MPCB NAGPUR
7. REGIONAL OFFICE MPCB AMRAVATI
8. REGIONAL OFFICE MIDC AMRAVATI
9. REGIONAL OFFICE MIDC NAGPUR
10. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
11. COLLECTOR OFFICE AKOLA
12. COLLECTOR OFFICE AMRAVATI
13. COLLECTOR OFFICE BHANDARA
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