



STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,
Room No. 217, 2nd floor,
Mantralaya, Annexe,
Mumbai- 400 032.
Date: January 3, 2019

To,
Bharat Petroleum Corporation Limited , Pune LPG Bottling Plant.
at Plot No. 1069/70/71/72/73

Subject: Environment Clearance for Construction of 2 X 900 MT LPG Mounded Storage Vessels and 1 x 60 Station Flexi carousel of 25000 MT/M bottling capacity by Bharat Petroleum Corporation Limited at Sanaswadi, Shirur, Pune.

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 155th 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 146th meetings.


2. It is noted that the proposal is considered by SEAC-I under screening category 6 (b) Isolated storage and handling of hazardous chemicals as per EIA Notification 2006.

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

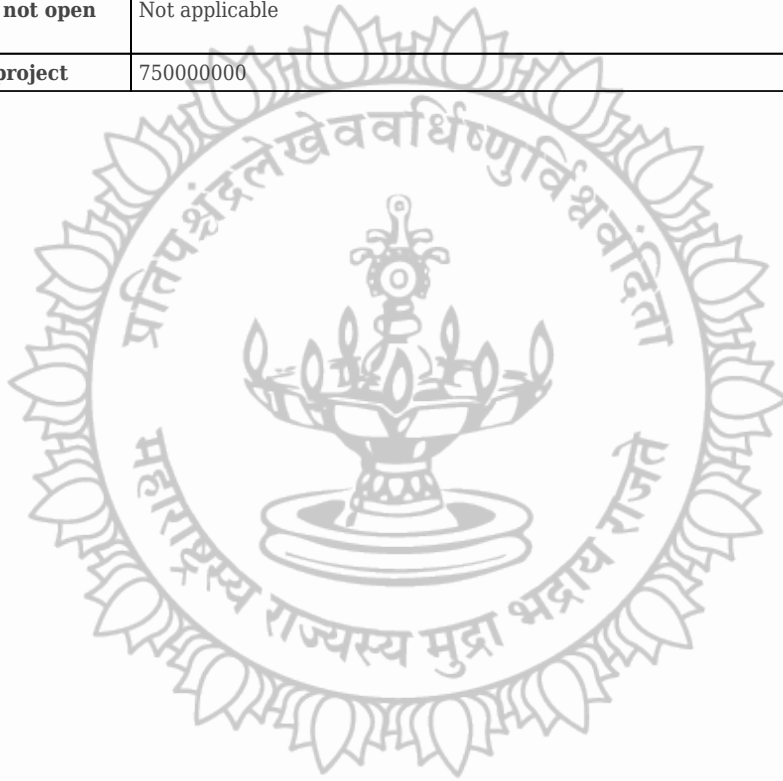
| | |
|--|---|
| 1.Name of Project | Construction of 2 X 900 MT LPG Mounded Storage Vessels and 1 x 60 Station Flexi carousel of 25000 MT/M bottling capacity by Bharat Petroleum Corporation Limited at Sanaswadi, Shirur, Pune. |
| 2.Type of institution | Semi Government |
| 3.Name of Project Proponent | Bharat Petroleum Corporation Limited , Pune LPG Bottling Plant. |
| 4.Name of Consultant | ABC Techno Labs India Private Limited, A-355, Third Floor, Balaji Bhavan, Plot No. 42A, Sector 11, CBD Belapur, Navi Mumbai - 400614. Tel.: 02227580044, Mobile no. : 8422068888, Email ID: chaitanyasathe@abctechlab.com |
| 5.Type of project | Storage/Filling of LPG |
| 6.New project/expansion in existing project/modernization/diversification in existing project | Expansion Project |
| 7.If expansion/diversification, whether environmental clearance has been obtained for existing project | Not Applicable (The existing LPG Bottling facility was established prior to EIA Notification 2006). |
| 8.Location of the project | Plot No. 1069/70/71/72/73 |
| 9.Taluka | Shirur |
| 10.Village | Sanaswadi |
| 11.Whether in Corporation / Municipal / other area | Not applicable |
| 12.IOD/IOA/Concession/Plan Approval Number | Not applicable IOD/IOA/Concession/Plan Approval Number: Not applicable Approved Built-up Area: |
| 13.Note on the initiated work (If applicable) | No work will be initiated without obtaining Environmental Clearance. |
| 14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable) | Not applicable |

SEIAA Meeting No: 146 Meeting Date: December 5, 2018 (SEIAA-STATEMENT-000000657)
SEIAA-MINUTES-0000000779
SEIAA-EC-0000000577

Page 1 of 11


Shri. Anil Diggikar (Member Secretary SEIAA)

| | |
|---|---------------------------------------|
| 15.Total Plot Area (sq. m.) | Not applicable |
| 16.Deductions | Not applicable |
| 17.Net Plot area | Not applicable |
| 18 (a).Proposed Built-up Area (FSI & Non-FSI) | FSI area (sq. m.): Not applicable |
| | Non FSI area (sq. m.): Not applicable |
| | Total BUA area (sq. m.): |
| 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) | Not applicable |
| 20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky) | Not applicable |
| 21.Estimated cost of the project | 750000000 |



Government of Maharashtra

| 22. Production Details | | | | |
|-----------------------------------|--|--|---|---|
| Serial Number | Product | Existing (MT/M) | Proposed (MT/M) | Total (MT/M) |
| 1 | Project activity consist of receipt/ storage/ filling/ dispatch of LPG Cylinders | (i) 2100 MT of storage capacity; (ii) 180000 MT/ Y | (i) 1800 MT of storage capacity ; (ii) 120000 MT/ Y | (i) 3900 MT of Storage capacity; (ii) 300000 MT/Y |
| 23. Total Water Requirement | | | | |
| Dry season: | Source of water | Not applicable | | |
| | Fresh water (CMD): | Not applicable | | |
| | Recycled water - Flushing (CMD): | Not applicable | | |
| | Recycled water - Gardening (CMD): | Not applicable | | |
| | Swimming pool make up (Cum): | Not applicable | | |
| | Total Water Requirement (CMD) : | Not applicable | | |
| | Fire fighting - Underground water tank(CMD): | Not applicable | | |
| | Fire fighting - Overhead water tank(CMD): | Not applicable | | |
| | Excess treated water | Not applicable | | |
| Wet season: | Source of water | Not applicable | | |
| | Fresh water (CMD): | Not applicable | | |
| | Recycled water - Flushing (CMD): | Not applicable | | |
| | Recycled water - Gardening (CMD): | Not applicable | | |
| | Swimming pool make up (Cum): | Not applicable | | |
| | Total Water Requirement (CMD) : | Not applicable | | |
| | Fire fighting - Underground water tank(CMD): | Not applicable | | |
| | Fire fighting - Overhead water tank(CMD): | Not applicable | | |
| | Excess treated water | Not applicable | | |
| 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 |
| Domestic | 8 | 0 | 8 | 2 | 0 | 2 | 6 | 0 | 6 |
| Industrial Process | 5 | 0 | 5 | 1 | 0 | 1 | 4 | 0 | 4 |
| Gardening | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| Fresh water requirement | 8 (Make-up water for fire fighting storage tank) | 0 | 8 (Make-up water for fire fighting storage tank) | 8 (Make-up water for fire fighting storage tank) | 0 | 8 (Make-up water for fire fighting storage tank) | 0 | 0 | 0 |

| | | |
|---------------------------------------|--|---|
| 25.Rain Water Harvesting (RWH) | Level of the Ground water table: | 15 m |
| | Size and no of RWH tank(s) and Quantity: | 20x 20 |
| | Location of the RWH tank(s): | Within the plant premises |
| | Quantity of recharge pits: | Existing bore well will be used to recharge ground water. |
| | Size of recharge pits : | Not applicable |
| | Budgetary allocation (Capital cost) : | 20,000 |
| | Budgetary allocation (O & M cost) : | 5,000 |
| | Details of UGT tanks if any : | 15 kl Under Ground Tank for storage of service water. |

| | | |
|--------------------------------|---------------------------------|---|
| 26.Storm water drainage | Natural water drainage pattern: | The storm water will have a natural flow. |
| | Quantity of storm water: | - |
| | Size of SWD: | 300 mm x 300 mm |

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|----------------------------------|--------------------------------------|--|
| 27.Sewage and Waste water | Sewage generation in KLD: | 6 |
| | STP technology: | Septic tank and soak pits are provided |
| | Capacity of STP (CMD): | Not applicable |
| | Location & area of the STP: | Not applicable |
| | Budgetary allocation (Capital cost): | Not applicable |
| | Budgetary allocation (O & M cost): | Not applicable |

28.Solid waste Management

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| Waste generation in the Pre Construction and Construction phase: | Waste generation: | The solid waste generation on the proposed site will be due to the various construction materials like cement, brick, steel, sand stone, paint and varnishes. |
| | Disposal of the construction waste debris: | Most of the construction materials like soil, bricks, concrete will be reused for back filling and road construction works and metal scraps will be sold to registered scrap dealers as per corporation procedure. |
| Waste generation in the operation Phase: | Dry waste: | 9.6 kg/day |
| | Wet waste: | 14.4 kg/day |
| | Hazardous waste: | (i) Spent oil from D.G.Set: 10 litres/ annum; (ii) Grease and Cotton waste: 25 litres/ annum; (iii) Tank sludge from cleaning of bullets: 500 litres/ 5 years |
| | Biomedical waste (If applicable): | Not application |
| | STP Sludge (Dry sludge): | Not applicable |
| | Others if any: | (i) Oily Sludge: 1 KL/Y; (ii) Scrap cylinder: 100/m |
| Mode of Disposal of waste: | Dry waste: | Will be handed over to local body. |
| | Wet waste: | Will be converted into compost and used as manure for green belt development. |
| | Hazardous waste: | Will be stored in MS drums and sent to authorised pre-processors. The tank bottom sludge shall be handed over to common incineration facility or to the agency approved by Pollution Control Board. |
| | Biomedical waste (If applicable): | Not applicable |
| | STP Sludge (Dry sludge): | Not applicable |
| | Others if any: | Will be handed over to authorised vendor. |
| Area requirement: | Location(s): | Within the plant premises. |
| | Area for the storage of waste & other material: | 10 m ² |
| | Area for machinery: | Not applicable |
| Budgetary allocation (Capital cost and O&M cost): | Capital cost: | 50,000 |
| | O & M cost: | 30,000 |

| 29.Effluent Charecterestics | | | | | |
|---------------------------------------|------------|--|--------------------------------|---------------------------------|-------------------------------------|
| Serial Number | Parameters | Unit | Inlet Effluent Charecterestics | Outlet Effluent Charecterestics | Effluent discharge standards (MPCB) |
| 1 | COD | mg/L | 160 | 0 | 250 |
| 2 | BOD | mg/L | 56 | 0 | 100 |
| 3 | TSS | mg/L | 0.138 | 0 | 100 |
| 4 | pH | - | 9 | 7.5 | 7.3-7.7 |
| 5 | TDS | mg/L | 800 | 310 | - |
| Amount of effluent generation (CMD): | | 4 | | | |
| Capacity of the ETP: | | 4 | | | |
| Amount of treated effluent recycled : | | 1 | | | |
| Amount of water send to the CETP: | | Not applicable | | | |
| Membership of CETP (if require): | | Not applicable | | | |
| Note on ETP technology to be used | | Standard ETP of make approved by MPCB is being used. | | | |
| Disposal of the ETP sludge | | Handed over to MPCB authorised party. | | | |

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| 30.Hazardous Waste Details | | | | | | | |
|----------------------------|-------------|-----|---------------|----------|----------|-------|----------------------|
| Serial Number | Description | Cat | UOM | Existing | Proposed | Total | Method of Disposal |
| 1 | Spent Oil | 5.1 | Litres/ annum | 10 | 0 | 10 | To authorised vendor |


| 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 | D.G. Set | HSD: 0.068 KL | 2 | 8 | 0.15 | 70 C | |
| 2 | FW Engine | Diesel | 2 | 8 | 0.15 | 70 C | |

| 32.Details of Fuel to be used | | | | |
|---|--------------|--------------------------------|----------|----------|
| Serial Number | Type of Fuel | Existing | Proposed | Total |
| 1 | HSD | 0.034 KL | 0.034 KL | 0.068 KL |
| 33.Source of Fuel | | From petroleum retail outlets. | | |
| 34.Mode of Transportation of fuel to site | | By road | | |

| 35.Energy | | |
|--------------------|---|------------------------|
| Power requirement: | Source of power supply : | MSEDCL |
| | During Construction Phase: (Demand Load) | 40 KVA |
| | DG set as Power back-up during construction phase | 3x 350 KVA |
| | During Operation phase (Connected load): | 450 MW |
| | During Operation phase (Demand load): | 600 KVA |
| | Transformer: | 1000 KVA |
| | DG set as Power back-up during operation phase: | 3x 250 KVA and 830 KVA |
| | Fuel used: | HSD |
| | Details of high tension line passing through the plot if any: | None present |

| Energy saving by non-conventional method: | |
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| Not applicable | |

| 36.Detail calculations & % of saving: | | |
|---------------------------------------|------------------------------|----------------|
| Serial Number | Energy Conservation Measures | Saving % |
| 1 | Not applicable | Not applicable |

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| SEIAA Meeting No: 146 Meeting Date: December 5, 2018 (SEIAA-STATEMENT-0000000657) SEIAA-MINUTES-0000000779 SEIAA-EC-0000000577 | Page 7 of 11 |  Shri. Anil Diggikar (Member Secretary SEIAA) |
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| 37.Details of pollution control Systems | | | | | | | |
|--|--|---|------------------------------------|--|---------------------------|------------------|-------------------------|
| Source | Existing pollution control system | | Proposed to be installed | | | | |
| Not applicable | Not applicable | | Not applicable | | | | |
| Budgetary allocation (Capital cost and O&M cost): | Capital cost: | 20,00,000 | | | | | |
| | O & M cost: | 10,00,000 | | | | | |
| 38.Environmental Management plan Budgetary Allocation | | | | | | | |
| a) Construction phase (with Break-up): | | | | | | | |
| Serial Number | Attributes | Parameter | Total Cost per annum (Rs. In Lacs) | | | | |
| 1 | Water for dust suppression | Dust control | 0.75 | | | | |
| 2 | Site sanitation, Safety and Disinfection | Workers health | 3 | | | | |
| 3 | Environmental Monitoring | Air, water, noise,soil sampling and testing | 0.5 | | | | |
| 4 | Health Check-up | Routine health check-up for workers | 0.5 | | | | |
| b) Operation Phase (with Break-up): | | | | | | | |
| Serial Number | Component | Description | Capital cost Rs. In Lacs | Operational and Maintenance cost (Rs. in Lacs/yr) | | | |
| 1 | Air pollution control | - | 1 | 0.5 | | | |
| 2 | Water pollution control | - | 6 | 2 | | | |
| 3 | Occupational health | Routine health check-up for workers | 0.5 | 1 | | | |
| 4 | Green belt development | Tree plantation and green area development | 2 | 1 | | | |
| 5 | Solid waste management | - | 0.5 | 0.2 | | | |
| 6 | Environmental monitoring and management | Air, water, noise,soil sampling and testing | 0.5 | 0.3 | | | |
| 39.Storage of chemicals (inflammable/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 |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 40.Any Other Information | | | | | | | |
| No Information Available | | | | | | | |

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| | CRZ/ RRZ clearance obtain, if any: | Not applicable |
| | Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries | Nil in 10 km radius from the project site |
| | Category as per schedule of EIA Notification sheet | 6 (b) Isolated storage and handling of hazardous chemicals |
| | Court cases pending if any | Not applicable |
| | Other Relevant Informations | Not applicable |
| | Have you previously submitted Application online on MOEF Website. | Yes |
| | Date of online submission | 09-03-2017 |

3. The proposal has been considered by SEIAA in its 146th 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:

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|------------|--|
| I | PP to submit revised layout plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc. |
| II | PP to include oil and grease parameter in the monitoring of soil and water samples. |
| III | PP to submit rain water harvesting details. |
| IV | PP to submit CER plan to District Collector and acknowledgment to be submitted to Member Secretary, SEIAA. |

General Conditions:

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|-------------|---|
| I | (i)PP to achieve Zero Liquid Discharge ; PP shall ensure that there is no increase in the effluent load to CETP. |
| II | No additional land shall be used /acquired for any activity of the project without obtaining proper permission. |
| III | PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment. |
| IV | Proper Housekeeping programmers shall be implemented. |
| V | 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. |
| VI | A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable). |
| VII | A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water. |
| VIII | Arrangement shall be made that effluent and storm water does not get mixed. |
| IX | 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. |
| X | 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. |
| XI | 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. |

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| XII | 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. |
| XIII | 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. |
| XIV | Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act. |
| XV | (The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. |
| XVI | 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. |
| XVII | 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. |
| XVIII | A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards. |
| XIX | 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 |
| XX | 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 http://ec.maharashtra.gov.in |
| XXI | 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. |
| XXII | 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. |
| XXIII | 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 ₂ , NO _x (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. |
| XXIV | 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. |
| XXV | 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. |

Maharashtra

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 PUNE
6. MUNICIPAL COMMISSIONER SATARA
7. REGIONAL OFFICE MPCB PUNE
8. REGIONAL OFFICE MIDC PUNE
9. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
10. COLLECTOR OFFICE PUNE
11. COLLECTOR OFFICE SATARA
12. COLLECTOR OFFICE SOLAPUR