



State Environment Impact Assessment Authority, M.P.
(Government of India, Ministry of Environment Forest & Climate Change)

Environmental Planning Coordination Organization (EPCO)
Paryavaran Parisar, E-5. Arera Colony
Bhopal-4620 16

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No: 623 /SEIAA/2017
Date: 3.6.17

To,
Mr. Manoj Verma Territory Coordinator,
BPCL LPG Bottling Plant,
Bhopal-Indore by Pass Road,
P. O. Bhouri Bakania,
Bhopal (M.P) - 462030

Sub:- Case No 4156/2015: Prior EC for expansion construction of New mounded storage vessels 3 nos. x 300 MT each, Cylinder Pressure Testing Shed with two Paints Booths, Addition of two unloading Bays, Addition of one DG Set 500 KVA, Construction of underground Diesel Tank 20 KL for captive use, construction of Tank Lorry Parking at LPG Bottling Plant, Existing capacity 22 TMTA cylinder bottling capacity, Proposed capacity 90 TMTA existing area 11.6 acres proposed area 12.2 acres at village -Khasra 37 & 21, village Kolukhedi, Tehsil Huzur District Bhopal M. P. by Bharat Petroleum Corporation, Ltd., through Mr. Manoj Verma Territory Coordinator, BPCL LPG Bottling Plant, Bhopal-Indore by Pass Road, P. O. Bhouri Bakania, Bhopal-462030 E-mail manojv@bharatpetroleum.in, P. No. 0755-2853464

Ref: Your application dtd. 03.11.2015 received in SEIAA office on 03.11.2015

With reference to above, the proposal has been appraised as per prescribed procedure & provisions under the EIA notification issued by the Ministry of Environment & Forests vide S.O. 1533 (E), dated 14th September 2006 and its amendments, on the basis of the mandatory documents enclosed with the application viz., Form I, pre-feasibility report, ToR, EIA Report, ppt. and additional clarifications furnished in response observations by the State Expert Appraisal Committee (SEAC) and State Environment Impact Assessment Authority (SEIAA) constituted by the competent Authority.

- (i) The proposed project is proposed for expansion for construction of new mounded storage vessels 3Nos. X 300 MT each, Cylinder Pressure Testing Shed with two Paint Booths , Addition of two Unloading Bays, Addition of one DG Set 500 KVA, Construction of Underground Diesel Tank 20 KL for captive use, Construction of Tank Lorry Parking at LPG Bottling Plant, Bakania.
- (ii) Earlier prior Environmental Clearance was granted by MPSEIAA vide letter No. 2405/SEIAA/13, dated 08.02.2013. PP has submitted compliance report of earlier prior EC certified by MoEF & CC Regional Office, Bhopal (dtd. 09.03.2017).
- (iii) The LPG bottling plant located at Bakania near Bhopal handles 22000MT of LPG per year with bottling facility of 7000 cylinders/day. The existing facilities of the bottling plant are as follows:

Case No. 4156/2015

Issued vide letter no. 623-84 dated 3.6.17

Case No.: To be quoted in registered cases for correspondence

S.No.	Name of Items	Capacity
01.	Storage Tanks for LPG	2 Nos. A/G Bullets (2x100 MT)
02.	Safety Valves on Storage Tanks	2 Nos.
03.	Set Pressures (Kg/Cm ² g)	14.2
04.	Discharge Height (Meters)	2.5 M to 3.0 M
06.	Unloading Bay	2 Bays
07.	No. of tankers to be unloaded at a time	2 Nos.
08.	No. of Carousel	1(Electronic Carousel of 12x18 stations)
09.	LPG Pumps	2 x 27 m ³ /hr
10.	LPG Compressor	1 x 65 CFM
11.	Air Compressor	1 x 200 CFM
12.	Air Drying Unit	1 x 200 CFM
13.	DG Set	1 x 250 KVA
14.	Fire Water Storage	2 x 1900 KL (A/G)
15.	Fire Water Pumps	3 x 450 KL/Hr
16.	Jockey Fire Water Pumps	2 x 16 m ³ /hr

- (iv) There is no interstate boundary within 10 km (PWD letter dtd. 23.10.15) and no National Park / Sanctuary within the 05 km of the project area(DFO letter dtd. 26.08.15) hence the general conditions are not attracted.
- (v) The project includes isolated storage & handling of hazardous chemicals and covered under 6 (b) category of the MoEF, GoI EIA Notification, 2006 and its amendments.
- (vi) As per the Khasra panchsala the land is the name of Bharat Petroleum Corporation Limited. The entire area of 35 acres of land has been declared as area earmarked for storage and handling of petroleum products by State Government.(Existing area of the project is -11.6 acre & proposed is-12.2 acre.)
- (vii) Public Hearing was held on 05.10.2016 at project site Bhauri Bakania L.P.G. plant under the Chairmanship of ADM Bhopal.Some issued were raised during public hearing which were addressed by PP.
- (viii) The LPG is received through 18 MT bulk tank lorries from BPCL's Bina Refinery, Mumbai Refinery, Hazira and GAIL Vijapur, Gujrat etc.
- (ix) The total water requirement at the existing LPG bottling plant will be 20 KLD which will be met by existing bore well. 12 KLD water will be used for process for cylinders washing, testing etc. and 08 KLD for domestic purpose. Waste water generated from the process will be treated in ETP and reused & recycled in process. 6KLD waste water generated from domestic activity will be treated in STP and after treatment it will be used for irrigation of green area.
- (x) There is no continuous source of air pollution from the process of existing facilities of Depot.because the entire bottling process is carried out closed circuit through piping from storage area to filling shed. There shall not be any continuous source of air emission from the proposed facilities. For precaution of air pollution, PP has proposed gas detectors at the LPG plant at strategic locations to detect concentration of hydrocarbon in the premises.
- (xi) No solid waste shall be generated from the proposed facilities. The oil collected in the Oil Water Separator is stored in the PP containers and sold to registered vendors approved by MPPCB. Paint sludge (approx (0.3 kg) generated from painting of cylinders will be stored in isolated container and handed over to authorize recyclers.

- (xii) Hazardous waste generated like used oil, grease and empty drums, used paint containers and other metallic containers are disposed of through registered vendors approved by MPPCB as per Hazardous Waste (Management, Handling & Trans-boundary Movement) Rules, 2008 & subsequent amendments.
- (xiii) Hazop and risk assessment for LPG plant including proposed three mound vessels have been carried out and risk mitigation measures have been spelled to enhance safety at the plant. PP has proposed fire fighting arrangement as per PNGRB Act, 2006. clause No.17
- (xiv) After enhancement of the bottling plant the power requirement is 400 KVA which is to be obtained from M. P. Pashcim Khhetra Vidyut Vitran Co. Ltd. Two DG sets one of 125 KVA and other of 365 KVA with acoustic enclosures is already available. However, one another 500 KVA capacity DG set having acoustic enclosures will be provided to meet the power requirement during grid power failure after capacity expansion.
- (xv) The existing green belt in project site has been developed of 4.3 acres of land area. PP has proposed existing 4.3 acres green belt will be strengthen after expansion.

Based on the information submitted at Para i to xv above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 228th meeting held on 09.05.2017 and decided to accept the recommendations of 288th SEAC meeting held on dtd 30.03.2017.

Hence, Prior Environmental Clearance is accorded under the provisions of EIA notification dtd. 14th September 2006 to the proposed project for expansion for construction of New mounded storage vessels 3 nos. x 300 MT each, Cylinder Pressure Testing Shed with two Paints Booths, Addition of two unloading Bays, Addition of one DG Set 500 KVA, Construction of underground Diesel Tank 20 KL for captive use, construction of Tank Lorry Parking at LPG Bottling Plant, Existing capacity 22 TMTPA cylinder bottling capacity, Proposed capacity 90 TMTPA existing area 11.6 acres proposed area 12.2 acres at village –Khasra 37 & 21, village Kolukhedi, Tehsil - Huzur District Bhopal M. P. by Bharat Petroleum Corporation, Ltd., through Mr. Manoj Verma Territory Coordinator, BPCL LPG Bottling Plant, Bhopal-Indore by Pass Road, P. O. Bhoura Bakania, Bhopal-462030 subject to the compliance of the Standard Conditions enclosed at Annex-I and the following additional Specific Conditions as recommended by SEIAA & SEAC in its meetings.

A. Specific Conditions as recommended by SEIAA

- (1). PP should ensure the implementation of the observations of Regional Office, MoEF&CC, Bhopal (dtd. 09.03.2017).
- (2). Occupational health surveillance of worker should be done on a regular basis and maintained as per the Factory Act.
- (3). The project authorities shall comply with the provision made in Manufacture, storage and Import of Hazardous Chemicals Rules 1989, as amended and the Public Liability Insurance Trans – boundary Movement) Rules 2008.
- (4). PP should ensure the implementation of proposed CSR activities on regular basis in consultation with District Administration.
- (5). PP should educate local people about pollution and its prevention/control.
- (6). Oil and water separator should be installed at appropriate places.

- (7). PP should install solar panels for all external lighting and additional solar panels should also be installed for future expansion.
- (8). Garland drains all along the boundary wall should be constructed.
- (9). PP shall ensure no leakage on any transfer point.
- (10). Liquid waste from paint house/spray painting should be properly disposed off in ETP and paint sludge/hazardous waste should be disposed in TSDF, Pithampur through authorized vendor.
- (11). PP should conduct educational/awareness programs in coordination with M P Pollution Control Board.
- (12). Provision of clean energy should be made in environmental management plan.
- (13). PP should prepare off-site and on-site emergency plans and carry out mock drills in consultations and coordination with the District Administration and as per safety rules of the Industrial Health and Safety.
- (14). PP should ensure the traffic movement plan, parking facilities and road width.
- (15). PP should ensure implementation of commitment made during public hearing.
- (16). PP should obtain NOC for firefighting from Competent Authority.
- (17). PP should ensure the rain water harvesting.
- (18). Under green area development PP should ensure : -
 - (a) Plantation in two rows all along the periphery of the project area, and along the roads, subject to minimum of 33% of the total area of the project.
 - (b) Plantation of the trees of indigenous local varieties like Neem, Peepal, Kadam, Karnj, Kachnaar etc.
 - (c) Plantation should be completed within one year.
 - (d) Every effort should be made to protect the existing trees on the plot.

B. Specific Conditions as recommended by SEAC


- (19). Adequate buffer zone to be created around the tankage facilities, as per the requirements of OSID or other statutory requirements.
- (20). VOC and HC shall be regularly monitored in the work zone in the plant along with the other parameters and data shall be submitted to MPPCB and R.O of MoEF&CC.
- (21). The company shall construct garland drain all around the project site to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage shall be created for oil contaminated and non-oil contaminated streams. During rainy season, the storm water drains shall be connected to oil water separator and passed through guard pond. Water quality monitoring of guard pond shall be conducted regularly and reports should be submitted to concerned authorities.
- (22). PP should install oil & grease trap and entire process effluent should be channelize through oil & grease trap before sending effluent to the ETP.

- (23). The project authorities should comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, as amended and the Public Liability Insurance Act for handling of hazardous chemicals etc. All Hazardous Waste (management, handling & Trans-boundary Movement) Rules 2008.
- (24). Company shall obtain all requisite clearances for fire safety and explosives and shall comply with the stipulations made by the respective authorities.
- (25). Green area including thick green-belt shall be developed in at least 33% of the plot area to mitigate the effect of fugitive emissions all around the plant in consultation with the forest department as per the guidelines of CPCB.
- (26). All recommendations mentioned in the EMP / DMP shall be binding for the project authorities.
- (27). Dedicated parking facility for loading and unloading of material shall be provided in the plant. Management shall develop and implement good traffic management system for incoming and outgoing vehicles to avoid congestion on public road. No parking of loading and unloading vehicles related to this faculty outside plant premises is permitted.
- (28). The Environmental Management Cell with suitably qualified and experienced staff for implementation of the stipulated environmental safeguards and for monitoring functions shall be setup under the control of the Chief Executive of the company.
- (29). Good housekeeping shall be maintained within the premises. All pipes, valves and drains shall be leak proof. Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly. Floor washing shall be admitted in to the effluent collection system for subsequent treatment and disposal.
- (30). PP will obtain other necessary clearances/NOC from concerned authorities.
- (31). PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
- (32). Necessary consents shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
- (33). Atleast two on-line continuous ambient air quality monitoring stations on suitable locations should be provided and data connectivity must be provided to the MPPCB's server for remote operations.
- (34). All recommendations and pollution mitigative measures proposed in the EMP shall be binding for the project authorities.
- (35). The ambient air quality shall be monitored in and around the industry and results shall be submitted to the MPPCB. The locations for the ambient air quality monitoring shall be fixed and reviewed in consultation with the MPPCB.
- (36). The overall noise level in and around the facility area and D.G. Set shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.

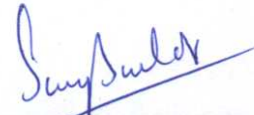
(37). The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

624
Endt No. / SEIAA/ 2017
Copy to:-

Dated 3.6.12


(Anupam Rajan)
Member Secretary

- (1). Principal Secretary, Urban Development & Environment Deptt. 3rd Floor, Mantralaya Vallabh Bhawan, Bhopal.
- (2). Secretary, SEAC, Research and Development Wing Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony Bhopal-462016.
- (3). Member Secretary, Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016.
- (4). The Collector, District Bhopal M.P.
- (5). The Commissioner, Municipal Corporation, Bhopal, M.P.
- (6). The Jt. Director, Town & Country Planning, Bhopal, M.P.
- (7). Director, I.A. Division, Monitoring Cell, MoEF, GoI, Ministry of Environment & Forest Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi – 110 003
- (8). Director (S), Regional office of the MOEF, (Western Region), Kendriya Paryavaran Bhawan, Link Road No. 3, Ravi Shankar Nagar, Bhopal-462016.
- (9). Guard file.


(Dr. Sanjeev Sachdev)
Officer-in-Charge


Encl: Standard Conditions (Annex-I)

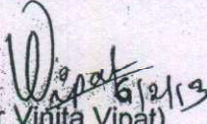
State Environment Impact Assessment Authority, M.P.
(Government of India, Ministry of Environment & Forests)
Research and Development Wing, Madhya Pradesh Pollution Control Board,
Paryavaran Parisar, E-5. Arera Colony, Bhopal-4620 16

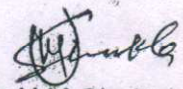
Standard Conditions related to Activity 6 (b) – Isolated storage and handling of hazardous chemicals of Category B projects under the Schedule of Ministry of Environment and Forests, GoI Notification dtd 14-09-06

Annex-I

1. Any enhancement of capacity, change in technology, modernization and scope of working shall again require prior environmental clearance as per EIA notification, 2006.
2. Environment Management Plan (EMP) should be strictly in accordance to the finding of environmental impact assessment.
3. Execution of all activities /- mitigative measures proposed by PP in Environmental management plan and approved by SEAC must be ensured.
4. All parameters listed in Environmental Monitoring Plan approved by SEAC must be monitored at approved locations and frequencies. PP shall submit a copy of Environmental Management Plan & Environmental Monitoring Plan duly approved by SEAC within one month of issue of EC to SEIAA and concerned Regional Office, MoEF, GoI.
5. The National Ambient Air Quality Emission Standards issued by the Ministry vide GSR no.826(E) dtd 16.11.2009 shall be followed.
6. Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of raw material and others shall have valid permissions as prescribed under Central Motor Vehicle Rules, 1989 and its amendments. No overloading of raw material for transportation shall be committed.
7. Periodic monitoring shall be carried out as per norms for RPM, SPM, SO2, NOx LPG, VOC and HC monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the M. P. Pollution Control Board. The monitored data for criteria pollutants shall be regularly uploaded on the company's website and displayed.
8. Gaseous emissions including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the CPCB.
9. Data on ambient air quality (RSPM, SPM, SO2, NOx) should be regularly submitted to the Regional office of the Ministry of Environment and Forest, Bhopal and the M.P. Pollution Control Board / Central Pollution Control Board once in six months.

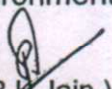

(Dr R K Jain)
Officer-in-Charge

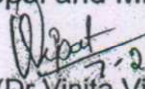

(Dr Vinita Vipat)
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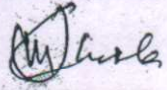

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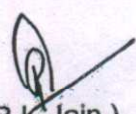
10. Water sprinkling shall be done to control fugitive emissions. Monitoring of fugitive emission in the work zone environment shall be carried out regularly as per the CPCB guidelines and reports submitted to Madhya Pradesh PCB/CPCB and Ministry's Regional Office at Bhopal.
11. Industrial waste water shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 as amended from time to time. The treated wastewater shall be utilized for plantation and dust suppression purpose. Domestic waste water treated in septic tank and soak pit.
12. The project proponent shall develop rain water harvesting structures to harvest the rain water for utilization in the lean period besides recharge of ground water.
13. Measure shall be taken for control of noise level below 75dBA in the work environment. Workers should be provided with ear plugs/mufs.
14. All solid waste shall be properly utilized or disposed off in environment friendly manner or in secured landfills within the plant premises as per the CPCB guidelines. Waste oil and oily sludge shall be provided to registered recyclers/reprocessors as per CPCB guidelines.
15. Proper housekeeping shall be ensured and all the raw material including scrap, coal, slag, sludge and oily waste shall be stored separately in designated place only. All the other solid wastes including broken refractory mass shall be properly disposed off in environment - friendly manner.
16. The proponent shall provide housing for construction labor within the site with all necessary infrastructures and facilities such as fuel for cooking, mobile toilets, mobile STP, 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.
17. Personnel working shall be provided with protective respiratory devices and they shall be imparted adequate training and information on safety and health aspects.
18. All the measures regarding occupational health surveillance of the workers shall be undertaken and regular medical examination of all the employees shall be ensured as per the Factories Act and records maintained.
19. A separate Environmental Management Cell with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
20. The project authorities shall inform to the Regional office of the Ministry of Environment and Forest, Bhopal and MPPCB final approval of the project by the concerned authorities and the date of start of land development work.
21. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the Regional office of the Ministry of Environment and Forest, Bhopal and MPPCB.

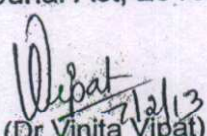

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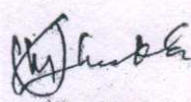

 (Dr Vinita Vipat)
 Officer-in-Charge


 (Dr U M Shukla)
 Officer-in-Charge

22. The Regional Office, MoEF, Gol, Bhopal and MP PCB shall monitor compliance of the stipulated conditions. A complete set of documents including Environment Impact Assessment Report, Environmental Management Plan and other documents information should be given to Regional Office of the MoEF, Gol at Bhopal, MPPCB and concerned agencies as per EIA notification.
23. Action plan with respect to suggestion/improvement and recommendations made and agreed during public hearing consultation, if any, shall be submitted to the Regional office of the MoEF, Bhopal and MPPCB to the competent authority of the State Govt. within six months.
24. The Project Proponent has to submit half yearly compliance report of the stipulated prior environmental clearance terms and conditions in hard and soft copy to the Regulatory Authority on 1st June and 1st December of each calendar year as per EIA notification 2006 and its amendments.
25. A copy of the environmental clearance shall be submitted by the Project Proponent to the Heads of the local bodies, Panchayat and municipal bodies as applicable in addition to the relevant officers of the Government who in turn has to display the same for 30 days from the date of receipt.
26. The project proponent has to strictly follow directions/guideline issued by the MoEF, Gol, CPCB and other Govt. agencies from time to time.
27. The Project Proponent shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the State Level Environment Impact Assessment Authority (SEIAA) website at www.mpseiaa.nic.in and a copy of the same shall be forwarded to the Regional Office, MoEF, Gol, Bhopal and MP PCB.
28. The SEIAA of M.P. reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
29. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
30. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
31. Any appeal against this prior environmental clearance shall lie with the Green Tribunal, if necessary, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.



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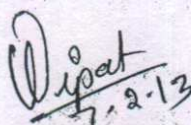

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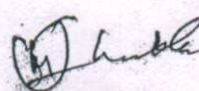

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Dated.....3.6.12.....

- 32. The conditions will be enforced inter-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 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
- 33. 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, SO2, NOx (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.
- 34. The prior environmental clearance granted for the project is valid for a period of five years as per EIA notification 14/09/2006.
- 35. The corporate social responsibilities as envisaged in the Office Memorandum dated 18/05/2012 of MOEF GOI should be ensured.
- 36. The Environment statement for each financial year ending 31st March in Form-V 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 Regional Office of MoEF.
- 37. Project Proponent shall explore the possibility of using solar energy where ever possible.
- 38. The company shall make the arrangement for protection of possible fire hazards.
- 39. The project authority shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989, as amended in 2000 and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from Chief Controller of Explosives and other authorities must be obtained before commissioning of the project. Requisite on site and off site Disaster Management Plans / emergency response plans as per the guidelines of Govt. of India shall be prepared and implemented. Mock drill shall be conducted quarterly.
- 40. The Project authority shall obtain all requisite clearances for fire safety and explosives and shall comply with the stipulation made by the respective authorities. All safety measures shall be ensured during unloading, filling and at transfer points etc. Latest fire fighting system shall be ensured.
- 41. The project authority shall install automatic leak detection systems and alarm system at all required places. Project Authority shall install automatic interlocking shutdown systems in case of any leakage of gas. Adequate arrangements for prevention and control of fire hazards shall be provided.


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