



**State Environment Impact Assessment Authority, M.P.  
(Government of India, Ministry of Environment & Forests)**

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

visit us <http://www.mpseiaa.nic.in>

Tel:0755-2466970, 2466859

Fax : 0755-2462136

No: 3148 /SEIAA/2015

Date: 17.3.15


To,  
Mr. S. K. Mishra, Executive Engineer,  
Pragati Bhawan,  
Press Complex, M.P. Nagar,  
Zone-1, Bhopal (M.P.)- 462011

**Sub: Case No. 2102/2014** Prior Environment Clearance for proposed residential construction project "Affordable Housing Scheme Atal Aashraya Yojna" at Khasra No. 96/1/1, 96/1/2, 96/2, Village Navi Bag, Tehsil Huzur, District Bhopal (MP), Total land Area 53100 sq.m. (5.310 ha), Built up area 27913.58 sq.m. by Bhopal Development Authority through Mr. S. K. Mishra, Executive Engineer, Pragati Bhawan, Press Complex, M.P. Nagar, Zone-1, Bhopal-462011. Email: sitpbhopal@gmail.com, Env. Consultant- Greenciindia Consulting Pvt.Ltd. Ghaziabad (UP)

**Ref:** Your application no. 2093 dtd. 12.11.14 received in SEIAA office on 19.11.14.

With reference to above, the proposal has been appraised as per prescribed procedure under the EIA notification issued by the Ministry of Environment & Forests vide S.O. 1533 (E), dated 14<sup>th</sup> September 2006 and its amendment, on the basis of the mandatory documents enclosed with the application viz., Form I, Form IA, Conceptual Plan, drawings & the additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC) and State Environment Impact Assessment Authority (SEIAA) constituted by the competent Authority.

- i. The proposed project is building construction Affordable Housing Scheme "Atal Aashraya Yojna" project having total built up area is 27913.58 sq.m. The project comes under 8 (a) category (B) of schedule of EIA Notification, 2006 because total construction is between 20,000 sqm & 1, 50,000 sqm and plot area is less than 50 ha.
- ii. The total land area is 5.310 ha (T & CP, Bhopal letter dtd 16.05.14) at Khasra No. 96/1/1, 96/1/2, 96/2) Village Navi Bag, Tehsil Huzur, District Bhopal (MP). As per Collector Office, Bhopal Order dtd. 20.01.14 the land 13.11 acres (Khasra no. 96/1/1, 96/1/2, 96/2) is allocated to Bhopal development Authority. The project includes 516 dwelling units (96 nos EWS + 420 nos LIG)
- iii. The source of water supply is Municipal Corporation, Bhopal (BMC letter dtd. 10.10.14 issued from Project Manager (JNNURM). The total water requirement is 272.98 KLD (fresh water 108.36 KLD). The waste water generation is 182.922 KLD and STP capacity is 220 KLD. The total treated waste water is 164.63 KLD which is proposed to

  
(Ajatshatru Shrivastava)  
Member Secretary

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Issued vide letter no. 3148-49 dated 17.3.15

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- be recycled (54.18 KLD in flushing, 18 KLD Gardening, 33.10 KLD in road side plantation and 59.34 KLD for Misc. purpose).
- iv. Approximately 516.0 kg/day of Municipal Solid waste; 14.4 kg/day Horticultural waste & 258.0 kg/day street sweeping shall be generated. Bio-degradable waste will be subjected to organic waste convertor and the compost produced will be used as manure for landscaping. Closed room with concrete surface will be constructed for solid waste storage. STP sludge is to be used for horticultural purposes as manure. Horticulture waste is to be composted and will be used for gardening purposes. Final disposal shall be through Municipal Corporation.
  - v. The maximum height of the building is 18 m. PP has proposed to provide internal road 7.5 m and 12.0 m; front MOS 9.00 m; side & rear MOS 6.00 m.
  - vi. PP has proposed to provide fire fighting provisions with Fire Hydrant Network with reserve Fire water, underground water storage tank, Automatic Sprinkler System, Fire extinguishers etc.
  - vii. PP has proposed to provide total parking for 226 ECS (Stillt 4758.95 sqmt. sufficient for 158 ECS & rest open parking in 1699.74 sqmt. area for 68 ECS) and 392 nos. of two wheelers
  - viii. PP has proposed roof top rainwater harvesting (RWH) system with 03 nos. of recharging pits for ground water recharge.
  - ix. PP has proposed an area of 6411 sq.m. (12.07% of total area) within the premises for development of green belt and along the boundary and additional plantation in the adjoining play ground included in the proposed project.

Based on the information submitted at Para i to ix above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 180<sup>th</sup> meeting dtd. 11.02.15 and decided to accept the recommendations of 163<sup>rd</sup> SEAC meeting held on dtd 24.12.14

Hence, Prior Environmental Clearance is accorded under the provisions of EIA notification dtd. 14<sup>th</sup> September 2006 to the proposed building construction residential project "Affordable Housing Scheme Atal Aashraya Yojna" at Khasra No. 96/1/1, 96/1/2, 96/2, Village Navi Bag, Tehsil Huzur, District Bhopal (MP), Total land Area 53100 sq.m. (5.310 ha), Built up-area 27913.58 sq.m. by Bhopal Development Authority through Mr. S.K. Mishra, Executive Engineer, Pragati Bhawan, Press Complex, M.P. Nagar, Zone-1, Bhopal-462011 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). The entire demand of fresh water (108.36 KLD) should be made from Municipal supply and there should be no extraction of ground water.
- (2). The extra treated waste water should not be discharged outside the premises. Once the municipal sewer line is laid in the area, PP should ensure that the discharge of extra treated waste water is linked with municipal sewer line.
- (3). PP should ensure linkage with Bhopal Municipal Corporation for disposal of MSW.

  
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Member Secretary

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- (4). As per MPBVR, 2012 rule 42 (3) PP should submit necessary drawings and details to the Authority (Nagar Nigam, Bhopal) incorporating all the fire fighting measures recommended in National Building Code part – IV point no. 3.4.6.1. The occupancy permit shall be issued by Nagar Nigam only after ensuring that all fire fighting measures are physically in place.
- (5). PP should ensure car parking space as per the MPBVR 2012 rule no. 84 Appendix I- 1 clause 1 (3).
- (6). PP should ensure plantation in 20% of the total plot area. Plantation should be done in two rows all along the periphery of the project area, play ground and avenue plantation along the roads with one tree per 100 sq. m. of the plot area. PP should ensure plantation of the trees of indigenous local varieties like Neem, Peepal, Kadam, Kachnaar etc. Every effort should be made to protect the existing trees on the plot.

**B. Specific Conditions as recommended by SEAC**

- (7). It is observed that public road bifurcates the plot such that the proposed play ground is falling across the road, PP shall provide suitable passage such as foot-over / under-pass to ensure safe connectivity between two parcels of project land.
- (8). Fresh water requirement for the project shall not exceed 108.36 KLD.
- (9). The waste water generated from the project shall be treated suitably and the treated water shall be reused for flushing and horticulture maintaining zero discharge.
- (10). STP sludge shall be dried using suitable technique such as filter-press and the dried STP- sludge shall be disposed off along with MSW.
- (11). Boundary wall shall be constructed and a green belt shall be developed along the boundary wall.

**Encl: Annex-I (Standard Conditions)**

Endt No. / SEIAA/ 14 Dated  
Copy to:-

- (1). Principal Secretary, UD & Environment Deptt. 3<sup>rd</sup> 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, Distt- Bhopal -M.P.
- (5). The Commissioner, Municipal Corporation, Bhopal, MP
- (6). The Jt. Director, Town & Country Planning, Bhopal, MP
- (7). Director, I.A. Division, Monitoring Cell, MoEF, Gol, 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.

**Encl: Annex-I (Standard Conditions)**

*(Ajatshatru Shrivastava)*  
Member Secretary

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Research and Development Wing, Madhya Pradesh Pollution Control Board,  
Paryavaran Parisar, E-5, Arera Colony, Bhopal-4620 16

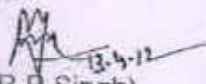
Annex-I

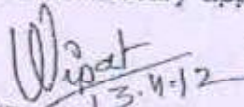
## Standard Conditions related to under item 8 (a) & 8 (b) of the schedule of EIA notification, 2006

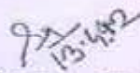
(Building/ construction projects / area development projects & township)

### A. Construction Phase

1. The construction site shall be provided with adequately barricades of at least 3 m height on its periphery with adequate signage.
2. All required sanitary and hygienic measures should be in place before starting any construction work and are to be maintained throughout the project phase.
3. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
4. Occupational health and safety measures for the workers including identification of work related health hazards, training on malaria eradication, HIV, and health effects on exposure to dust etc. shall be carried out. Periodic monitoring for exposure to respirable dust on the workers shall be conducted and records maintained including health records of the workers. Awareness programme for workers on impact of dust on their health and precautionary measures like use of personal equipments etc. shall be carried out periodically.
5. A First Aid Room will be provided in the project both during construction and operation of the project.
6. All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.
7. Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
8. Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
9. Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate water courses and the dump sites for such material must be secured so that they should not leach into the ground water.
10. Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the M.P. Pollution Control Board.

  
(Dr R P Singh)  
Officer-in-Charge

  
(Dr Vinita Vipat)  
Officer-in-Charge

  
(Dr Sadhna Tiwari)  
Officer-in-Charge

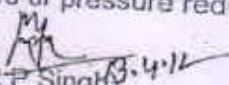
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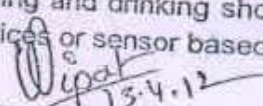


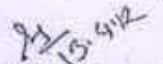
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11. The diesel generator sets (if any) to be used during construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.
12. The diesel required (if any) for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.
13. Wastewater generated from temporary labour tents will be diverted to the sewer network in the area.
14. No water logging should take place at any point during construction phase.
15. If the project site is located within the 100 km of Thermal Power Stations, then fly ash should be used as building material in the construction as per the provisions of Fly ash Notification of September, 1999 and amended as on 27<sup>th</sup> August, 2003.
16. As far as possible ready mixed concrete should be used in construction work.
17. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
18. Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/ MPPCB.
19. Storm water control and its use should be as per CGWB and BIS standards for various applications.
20. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
21. Care shall be taken during the wet drilling activities.
22. Spread of contaminated water should be prevented by installing temporary barriers of G.I. Sheets.
23. To prevent surface and ground water contamination by oil/grease, leak proof containers shall be used for storage and transportation of oil/grease. The floors of oil/grease handling area will be kept effectively impervious.
24. On-site burning of waste material will not be permitted.
25. Ground water should not be used during construction phase. Private tanker water suppliers may be asked to supply water during construction phase.
26. Commitment towards CSR have to be followed strictly.
27. Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.

  
(Dr R.P. Singh)  
Officer-in-Charge

  
(Dr Vinita Vipat)  
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(Dr Sadhna Tiwari)  
Officer-in-Charge

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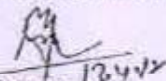
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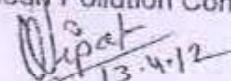
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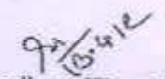
28. Wherever possible, the area around the STP / ETP should be surrounded with dense green belt.
29. To reduce the electricity consumption and load on air conditioning, high quality double glass with special reflective coating in windows should be promoted.
30. Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.
31. Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all air-conditioned spaces while it is aspirational for non-air conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.
32. Approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire fighting equipments, etc. as per National Building Code including protection measures from lightening etc.

## B. Operation Phase

1. The installation of the Sewage Treatment Plant (STP) as submitted by PP in the office of SEIAA should be certified by an independent expert and a report in this regard should be submitted to the Regional office of the Ministry of Environment & Forest, GoI before the project is commissioned for operation. Treated effluent discharge from STP shall be recycled/reused to the maximum extent possible. Treated effluent shall conform to the norms and standards of the M.P. Pollution Control Board. Necessary measures should be made to mitigate the odour problem from STP.
2. Treated waste water should not be used for air conditioning.
3. Treatment of 100% grey water by decentralized treatment should be done.
4. The bio-medical waste (if applicable) generated should be disposed off as per the provisions of Bio-medical waste (Management and Handling) Rules 1988 as amended till date.
5. Provision of separate entrance / exit gate should be made for collection of segregated bio-medical waste (if applicable) from the storage area.
6. The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material as per CPCB norms.
7. Diesel power generating sets if proposed as source of back up power for elevators and common area illumination during operation phase should be of enclosed type and confirm to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Low sulphur diesel must be used. The location of the DG sets may be decided with in consultation with Madhya Pradesh Pollution Control Board.

  
(Dr R P Singh)  
Officer-in-Charge

  
(Dr Vinita Vipat)  
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(Dr Sadhna Tiwari)  
Officer-in-Charge

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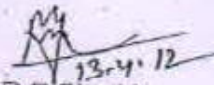
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Dated: 18.3.15

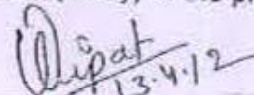


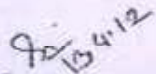
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8. No water logging should take place at any point during operation phase.
9. The Project Proponent shall explore the possibility of using solar energy wherever possible.
10. Provision for plantation has to be made as per Madhya Pradesh Bhumi Vikas Niyam, 1984.
11. Any hazardous waste generated during operation phase, should be disposed off as per applicable rules and norms with necessary approvals of the M.P. Pollution Control Board.
12. Noise should be controlled to ensure that it does not exceed the prescribed standards of CPCB.
13. Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon period.
14. Rain water harvesting for roof run-off and surface run-off, should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The bore well for rainwater recharging should be kept at least 5 mts. above the highest ground water table.
15. The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.
16. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.
17. A Report on the energy conservation measures confirming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, R & U Factors etc and submit to the Regional office of Ministry of Environment & Forest, GoI in three months time.
18. Energy conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible.
19. The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.
20. The area earmarked for the parking shall be used for parking only. No other activity shall be permitted in this area.
21. Ozone Depleting Substances (Regulation & Control) Rules shall be followed while designing the air conditioning system (if any) of the project.

  
(Dr R P Singh)  
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(Dr Vinita Vipat)  
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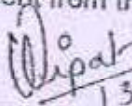
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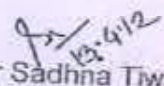
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Research and Development Wing, Madhya Pradesh Pollution Control Board,  
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## C. Others

1. All activities / mitigative measures proposed by PP in Environmental Impact Assessment (if applicable) and approved by SEAC must be ensured.
2. All activities / mitigative measures proposed by PP in Environmental Management Plan and approved by SEAC must be ensured.
3. All parameters listed in Environmental Monitoring Plan approved by SEAC must be monitored at approved locations and frequencies.
4. Project Proponent has to strictly follow the direction/guidelines issued by MoEF, CPCB and other Govt. agencies from time to time.
5. 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 MoEF, Gol, and its Regional Office located at Bhopal.
6. The Ministry or any other competent authority may alter/modify the conditions or stipulate any further condition in the interest of environment protection.
7. The Environmental Clearance shall be valid for a period of five years from the date of issue of this letter.
8. The project proponent shall also submit six monthly reports on 1<sup>st</sup> June and 1<sup>st</sup> December of each calendar year on the status of compliance of the stipulated EC conditions including results of monitored data to the regulatory Authority in hard and soft copies.
9. The Regional Office, MoEF, Gol, Bhopal and MPPCB 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 and MPPCB.
10. The Project Proponent shall inform to the Regional Office, MoEF, Gol, Bhopal and MP PCB regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
11. In the case of expansion or any change(s) in the scope of the project, the project shall again require prior Environmental Clearance as per EIA notification, 2006.
12. 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.
13. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained (as and when applicable), by the project proponent from the respective competent authorities.

  
(Dr R P Singh)  
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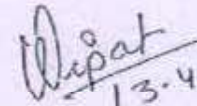


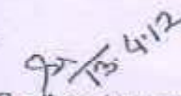
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14. These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
15. 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>, 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 and in the public domain.
16. The environmental statement for each financial year ending 31<sup>st</sup> 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 Regional Office of MoEF.
17. 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.
18. 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.
19. 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 website of the State Level Environment Impact Assessment Authority (SEIAA) at [www.mpseiaa.nic.in](http://www.mpseiaa.nic.in) and a copy of the same shall be forwarded to the Regional Office, MoEF, Gol, Bhopal.
20. 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.

  
(Dr R P Singh)  
Officer-in-Charge  
13.4.12

  
(Dr Vinita Vipat)  
Officer-in-Charge  
13.4.12

  
(Dr Sadhna Tiwari)  
Officer-in-Charge  
13.4.12

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