



**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

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Tel:0755-2466970, 2466859

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No: 950 SEIAA/2017

Date: 29.6.12

To,  
Divisional Project Engineer,  
Public Works Department,  
Project Implementation Unit,  
Bhopal Shed No. 14 A,  
Jawahar Chowk, Dist. Bhopal,  
MP-462003

**Sub:- Case No. 5507/2017:** Prior Environment Clearance for Redevelopment/ Modification and Expansion Project Hamidia Hospital (Smart Medicity), Royal Market, Hamidia Road, Peer Gate, Bhopal, Total land area- 1,61,915.4 sq.m. Total Built up Area is 1,87,470.15 sq.m. (Existing: 52,382.25 sq.m; proposed: 1,35,087.9 sq.m) by Public Works Department, Project Implementation Unit, Bhopal Shed No. 14 A, Jawahar Chowk, Dist. Bhopal, MP E-mail- piubhopal@gmail.com Ph.0755- 2771953

**Ref:** Your application dtd. 12.10.2016 received in SEIAA office on 01.02.2017.

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 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 and subsequently submission of EIA, PPT & 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 pertains to Redevelopment/ Modification and Expansion of Hamidia Hospital located at Royal Market, Hamidia Road, Peer Gate, Bhopal, (M.P.). The site area will remain same as earlier 1,61,915.4 sq.m. (40.01 acre). However, the built-up area will increase from 76,641.62 sq.m. to 1,87,470.15 sq.m. (Existing: 52,382.25 sq.m; proposed: 1,35,087.9 sq.m).
- (ii). The total land area is 40.01 acre at Royal Market, Hamidia Road, Peer Gate, Bhopal, (M.P.). The total built-up area proposed by PP is 1,87,470.15 sq.m. The project comes under 8 (b) category (B) of schedule of EIA Notification 2006 as the construction is more than 1,50,000 sq.mt.

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- (iii). The site is within 10 Km radius of Van Vihar National Park (a Notified PA) clearance from NBWL is therefore needed and thus they have filled online application for NBWL clearance with Proposal No. FP/MP/DISP/1504/2017 & date of submission 02/03/2017.
- (iv). PP vide letter no. 385 dated 17/05/2017 has informed that there is no structure being constructed within 100 meters/ regulated boundary of existing structures of archeological importance.
- (v). The land required for redevelopment of existing and proposed project is already in possession of Gandhi Medical College.
- (vi). The project includes retaining of Certain existing buildings, demolish of some building and adding some new buildings which are as follows:
- (a) **Existing buildings to be Demolished:** ETP, Admin and Blood Bank, Charm Rog Vibhag, Physiotherapy, Lions ward Old Pvt. Deptt., Operation Theatre and Eye Ward, Operation Theatre, ICCU Cardiology and Medical Ward, Medical Ward.
- (b) **Existing buildings to be Retained:** Virology Lab, Animal House, Kamla Nehru Hospital, Lab, Admin & Blood Bank, Old OPD, New OPD.
- (c) **Proposed New Buildings:** Hospital Block I, Hospital Block II, Multilevel Parking 10 and 11, Connecting Bridge.

**Details of remaining part of Gandhi Medical College (excluding Hospital)**

- (d) **Existing buildings to be Demolished:** Girls Hostel (A3, B4 Block), Boys Hostel (B5 Block), Quarters (A4, A7, B7, B8), Houses (A5, A6, B6), Post Office, Hawa Mahal, Corridor, Kitchen, Garage, Restaurant, Nurse Hostel, H Shade.
- (e) **Existing buildings to be Retained:** Boys Hostel (M1-M3), Girls Hostel (D2, D1), Guest House, Gandhi Medical College, Mosque, Staff Quarter (J), Sports Block, Hostel adjoining Kamla Nehru Hospital.
- (f) **Proposed New Buildings:** Nursing College and Hostel, Hostel 7
- (vii). The total water requirement is 1170 KLD (Existing- 482 KLD + After expansion - 782 KLD).. The source of water supply is Bhopal Municipal Corporation. PP has submitted letter (dtd. 03.06.17) from Nagar Nigam Bhopal for supply of water.
- (viii). The wastewater generated from OPD, IPD, OT, Blood bank and Labs will be approx. 90 KLD, which will be treated in an onsite ETP of 100 KLD capacity. PP has proposed to install the Multiple Effect Evaporator (MEE) to evaporate the treated water from ETP. An evaporator is essentially a heat exchanger in which a liquid is boiled to give a vapour, so that it is also, simultaneously, a low pressure steam generator. Total treated water from ETP would be 72 KLD and total 18 hrs required to complete the MEE process.

The waste water generation of the Hospital (excluding IPD, OPD, OT, Blood Bank & Lab) and Nursing College is 804.5 KLD. PP has provided sewage treatment plant of 960 KLD. The total treated waste water is 592 KLD. Out of this 548.5 KLD will be recycled & reused (252.5 KLD flushing + 41 KLD horticulture + 255 KLD HVAC.) and remaining treated waste water 44 KLD is proposed to be disposed off to nearest municipal sewer line.

- (ix). Approximately 2639.4kg/day Municipal Solid waste shall be generated which is proposed to be segregated at source and collected in three coloured bins and disposed off at trenching site of BMC . For Hospital waste collection, adequate numbers of colored bins (Red, Yellow, Black, Blue and dark blue bins) are proposed to be provided at strategic locations within the hospital. Sludge from the STP will be used as manure at the site or landscaping and greenbelt development. PP has submitted letter dtd 02.06.17 from Nagar Nigam, Bhopal for disposal of MSW.
- (x). Bio Medical waste 639.25 kg/day shall be generated from the hospital, which is proposed to be collected as per the Bio-Medical Waste (Management and Handling) Rules, 2016 and shall be treated in common disposal facility of Bhopal Incinerator, Govindpura, Bhopal (MP) as per agreement executed on dtd.07.07.2015.
- (xi). The Hazardous waste (ETP sludge 13.4 kg/day) shall be generated which is proposed to be disposed off to TSDF site.(Pithampur).
- (xii). As per the provisions of Construction & Demolition Waste Management Rules, 2016, following system will be followed for storage of demolition waste:
- All construction/demolition waste would be stored within the site itself.
  - A proper screen would be provided so that the waste does not get scattered.
  - Waste would be segregated into different heaps so that their further gradation and reuse is facilitated.
  - Material which can be reused at the site for the purpose of construction, leveling, making road/pavement etc. would be kept in separate heaps from those which are to be disposed off through approved local vendors.
- (xiii). PP has proposed to provide Fire Box with accessories, hydrant valve, Hose reel, fire extinguishers, hooter and manual call point as per NBC 2005. PP has submitted provisional NOC from Nagar Nigam, Bhopal (28.01.13).
- (xiv). PP has proposed to provide Sprinkler system, hydrant system, fire hose cabinet, Fire extinguishers, etc. as per NBC 2005.
- (xv). The project site is located in a hilly terrain. The entire run-off flows into the nearby lake. Considering the sub-soil characteristics, rainwater harvesting is not feasible for recharge of ground water. Therefore, rain water harvesting system has not been proposed for the project.
- (xvi). PP has proposed two entry and exits from Fatehgarh area and Sultania Road and suitable internal roads for intra movement of patients, medical staff.
- (xvii). PP has proposed 1496 ECS ( Multi level parking (covered) - 1004 ECS & open- 492 ECS. ) for hospital buildings and residential facilities hostels.
- (xviii). The total power requirement is 7232.17 kVA (Existing- 700 kVA + After expansion - 6532.17 kVA and the source is Madhya Pradesh Power Corporation Limited. PP has proposed 9500 kVA DG set for power back up. For energy conservation PP has proposed provision of Solar energy for solar lighting and solar water heater, LED based lighting for indoor and common areas and LED Batten Luminaries based Lighting for the Multi-Level Car Parking.
- (xix). PP has proposed an area of 90,000 sq.m. for the green area by planting 1513 trees and retaining 261 nos. of existing trees of peripheral plantation. It was also submitted by the PP that 228 trees are proposed to be uprooted for which

permission of competent authority has been obtained and compensatory plantation activities be taken up as per the approval of the competent authority.

Based on the information submitted at Para i to xix above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 451<sup>st</sup> meeting held on 27.06.2017 and decided to accept the recommendations of 294<sup>th</sup> SEAC meeting held on dtd. 23.06.2017.

Hence, Environmental Clearance is accorded under the provisions of EIA notification dtd. 14<sup>th</sup> September 2006 and its amendments to the proposed Redevelopment/ Modification and Expansion Project Hamidia Hospital (Smart Medicity), Royal Market, Hamidia Road, Peer Gate, Bhopal, Total land area- 1,61,915.4 sq.m. Total Built up Area is 1,87,470.15 sq.m. (Existing: 52,382.25 sq.m; proposed: 1,35,087.9 sq.m) by Public Works Department, Project Implementation Unit, Bhopal Shed No. 14 A, Jawahar Chowk, Dist. Bhopal, MP 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 fresh water supply arrangement should be met through Municipal Corporation, Bhopal and there should be no extraction of ground water.
- (2) The inlet and outlet point of natural drain system should be maintained with adequate size of channel for ensuring unrestricted flow of water.

**(3) Disposal of waste water.**

- a. Regular quarterly monitoring of treated effluent should be carried out by PP through MPPCB and if any of the parameter is found to be above the prescribed standard limits PP should ensure the redressal measures immediately so that the water quality of treated effluent confirms the prescribed norms.
- b. MPPCB should ensure the quality of treated effluent and The entire treated waste water should be recycled as proposed by PP and there should be no discharge of treated waste water outside & within the premises. PP should ensure zero discharge of waste water from the project site.
- c. Complete disinfection of the treated waste water from ETP and STP has to be ensured before re-using the same for the proposed auxiliary utilities.
- d. Ensure to regular operation and maintenance of the STP & ETP should be done.
- e. Neither the STP overflow nor the treated effluent should be discharged in the upper lake drainage.
- f. PP should ensure that the discharge of extra treated waste water (if any) is linked with the proposed municipal sewer line.
- g. Appropriate STP 1200 KLD & ETP capacity of 150 KLD presented in meeting shall be installed and the same be monitored for effective treatment by MPPCB. Proper planning and detailing regarding installation of STP and ETP should be done to ensure that all paramedical facilities like laundry, OT, patients wards, OPD etc. should be properly connected to STP and ETP.

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**(4) Solid, Bio-Medical and Hazardous Waste Management:**

- (a) Separate wet and dry bins must be provided at the ground level for facilitating segregation of waste.
- (b) 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.
- (c) The STP sludge after press-filtration shall be disposed off with MSW.
- (d) The MSW shall be disposed off at the designated disposal site of the city.
- (e) PP should ensure handling, disposal and management of hazardous waste (if any) as per the related prescribed rules and obtain authorization from MPPCB regarding hazardous waste disposal.
- (f) PP should ensure disposal of hazardous waste (if any) regularly through sale or in TSDF site and there should be no dumping of these materials in the premises/outside.
- (g) E-waste generated from the project site which is proposed to be handled according to E-Waste (Management and Handling) Rules, 2011 and supplied to MPPCB approved recyclers. It is decided that, (Management and Handling) Rules, 2011 should be followed strictly for the disposal of E-waste.

(5) PP should ensure road width, front MOS and side / rear as per MPBVR 2012.

**(6) For firefighting:-**

- (a) PP should ensure connectivity to the fire station from the project site.
- (b) As per MPBVR, 2012 rule 42 (3) PP should submit necessary drawings and details to the Authority (Municipal Corporation, 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 Municipal Council only after ensuring that all fire fighting measures are physically in place.
- (c) Since the PP is constructing high rise towers, the nearest fire station should be well equipped with all the necessary equipments and gadgets required for high rise buildings. PP should also contribute to Nagar Nigam Bhopal to make the fire station fully equipped to handle cases in the event of any adversary.

**(7) For Storm Water Management:-**

- (a) The storm water from roof – top, paved surfaces and landscaped surfaces should be properly channelized through efficient storm water network.
- (8) PP should ensure to provide car parking as proposed 1496 ECS ( Multi level parking (covered) - 1004 ECS & open- 492 ECS. ) for hospital buildings and residential facilities hostels
- (9) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Necessary signage including continuous display of status of parking availability at entry, exit and all other appropriate places shall be provided which should have appropriate size of

letters and shall be visible from the at least 50 meter distance from the adjacent road. No public space shall be used or blocked for the parking and the trained staff shall be deployed to guide the visitors for parking and helping the senior citizens and physically challenged people.

**(10) For Energy Conservation PP should Ensure :-**

- (a) The premises should be energy efficient by adapting ECBC guidelines where ever possible.
- (b) Use of LED lights in the common areas, landscape areas, signage's, entry gates and boundary compound walls etc.
- (c) provision of Solar energy for solar lighting and solar water heater,
- (d) PP should also ensure to adopt energy conservation measure as per the State Govt. Policy.

**(11) Air Quality and Noise:-**

- (a) Dust, smoke & debris prevention measures such as wheel washing, screens, barricading & debris chute shall be installed at the site during construction including plastic/tarpaulin sheet covers for trucks bringing in sand & material at the site.
- (b) Air monitoring shall be carried out periodically as per the directions of MPPCB.

**(12) Green belt :-**

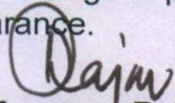
- (a) PP should ensure plantation in an area of 90,000 sq.m. by planting 1513 trees and retaining 261 nos. of existing trees of peripheral plantation. Trees of indigenous local varieties like Neem, Peepal, Kadam, Karanj, Kachnaar, Saptparni, Saltree, Gulmohar etc. etc. should be planted.
  - (b) PP should to provide additional green area outside of the premises with three rows plantation.
  - (c) Every effort should be made to protect the existing trees on the plot and if any existing trees are proposed to be cut then compensatory plantation should be taken up within the hospital premises and in addition to 1513 trees being planted by the PP.
  - (d) Green belt may be developed at an elevated level by raising the ground level by around two feet and sloping inwardly from western boundary (facing the VIP road / lake.) such that no over-flows can reach the VIP road through slopes.
  - (e) The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.
- (13) PP should ensure demolished all the existing structures proposed in the project site.
- (14) In the case of future expansion in the scope or any changes(s) in the scope of the project shall again require Prior Environmental Clearance as per EIA notification, 2006.

- (15) The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA/SEAC along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
- (16) The huge expansion of the hospital within a highly and densely populated area of old town calls for re designing of the existing external road network. It is for the consideration of the PP to plan and alternative elevated and dedicated road from VIP road to the hospital. This will definitely de-congest the already overloaded sultania road and fatehgarh road.

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

- (17) Fresh water requirement for the project shall not exceed 1170 KLD.
- (18) The excess treated water will be used for watering of municipal road side green area or efforts shall be made to supply this water to the construction sites for use in the construction works.
- (19) Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum 1513 no of trees will be planned in area marked as green belt. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
- (20) Total number of 228 trees are proposed to be uprooted for which permission of competent authority should be obtained and compensatory plantation activities be taken up as per the approval of the competent authority excluding 1513 trees proposed in the EMP.
- (21) Tire washing apron should also be provided for any vehicle entering the hospital campus including ambulances to control fugitive emissions.
- (22) Zero liquid discharge shall be observed and no treated waste water should be discharged outside the premises. PP should also install Internet Protocol PTZ camera with night vision facility along with minimum 05X zoom and data connectivity must be provided to the MPPCB's server for remote operations.
- (23) STP sludge shall be filter-pressed and the de-watered sludge shall be disposed off with the MSW.
- (24) Necessary permissions under Water Act, 1974, Air Act, 1981, Bio-medical Waste, 2016 and Haz. Waste, 2016 etc should be obtained from the MP Pollution Control Board.
- (25) Log-books shall be maintained for disposal of all types Bio-medical & hazardous wastes and shall be submitted with the compliance report. PP should comply with the various provisions of Bio-Medical Waste Management Rules, 2016 and time to time guidelines published by Central Pollution Control Board, Delhi.
- (26) Power back-up for un-interrupted operations of STP shall be ensured.
- (27) CFL/LED should be preferred over of tube lights.
- (28) Fund should be exclusively earmarked for the implementation of EMP.
- (29) MSW storage area should have 48 hours storage capacity.

- (30) Dual plumbing should be provided.
- (31) Ultrasonic/Magnetic flow/Digital meters shall be provided at the inlet and outlet of the proposed ETP & all water abstraction points and records for the same shall be maintained regularly.
- (32) Well designed acoustic enclosures for the DG sets and noise emitting equipments to achieve the desirable insertion loss viz. 25 dB(A) should be provided.
- (33) Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.
- (34) Provisions shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after completion of the period.
- (35) PP will obtain other necessary clearances/NOC from respective authorities.
- (36) The grant of Environmental Clearance should be subject to necessary Wild Life Clearance from NBWL to be obtained by PP.
- (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 unit shall require a fresh Environment Clearance.

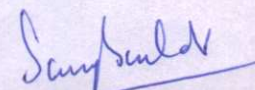
  
 (Anupam Rajan)  
 Member Secretary

957  
 Endt No. / SEIAA/ 2017

Dated 29.6.12

Copy to:-

- (i). Principal Secretary, Urban Development & Environment Deptt. 3<sup>rd</sup> Floor, Mantralaya Vallabh Bhawan, Bhopal.
- (ii). Secretary, SEAC, Research and Development Wing Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony Bhopal-462016.
- (iii). Member Secretary, Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016.
- (iv). The Collector, Distt- Bhopal -M.P.
- (v). The Commissioner, Municipal Corporation, Bhopal, MP
- (vi). The Jt. Director, Town & Country Planning, Paryavaran Parisar, E-5, Arera Colony, Bhopal (M.P.)
- (vii). Director, I.A. Division, Monitoring Cell, MoEF, GoI, Ministry of Environment & Forest Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi – 110 003
- (viii). Director (S), Regional office of the MOEF, (Western Region), Kendriya Paryavaran Bhawan, Link Road No. 3, Ravi Shankar Nagar, Bhopal-462016.
- (ix). Guard file.

  
 (Dr. Sanjeev Sachdev)  
 Officer-in-Charge

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

Case No. 5507/2017

Issued vide letter no. 950 57 dated 29.6.12

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



State Environment Impact Assessment Authority, M.P.

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Research and Development Wing, Madhya Pradesh Pollution Control Board,  
Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016

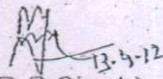
Annex-I

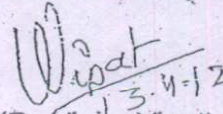
Standard Conditions related to under item 8 (a) & 8 (b) of the schedule of EIA  
notification, 2006

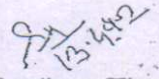
(Building/ construction projects / area development projects & township)

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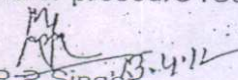
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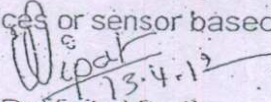
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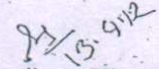
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Research and Development Wing, Madhya Pradesh Pollution Control Board,  
Paryayaran Parisar, E-5, Arera Colony, Bhopal-4620 16

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)  
Officer-in-Charge

  
(Dr Sadhna Tiwari)  
Officer-in-Charge

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State Environment Impact Assessment Authority, P.H.

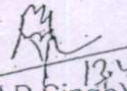
(Government of India, Ministry of Environment & Forests)

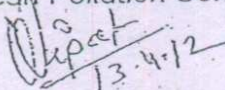
Research and Development Wing, Madhya Pradesh Pollution Control Board,  
Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016

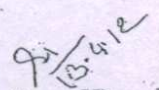
28. Wherever possible, the area around the STP / ETP should be surrounded with dense green belt.
29. To reduce the electricity consumption and load on air conditioning, high quality double glass with special reflective coating in windows should be promoted.
30. Roof should meet prescriptive requirement 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 lightning 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 conform 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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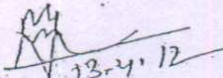
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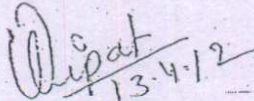
State Environment Impact Assessment Authority, M.P.

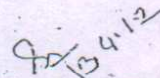
(Government of India, Ministry of Environment & Forests)

Research and Development Wing, Madhya Pradesh Pollution Control Board,  
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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, Govt. 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.

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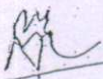
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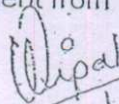
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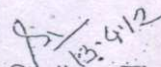
State Environment Impact Assessment Authority, M.P.  
(Government of India, Ministry of Environment & Forests)  
Research and Development Wing, Madhya Pradesh Pollution Control Board,  
Paryavaran Parisar, E-5, Arera Colony, Bhopal-4620 16

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, CPCE 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, GoI, 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, GoI, 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, GoI at Bhopal and MPPCB.
10. The Project Proponent shall inform to the Regional Office, MoEF, GoI, 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.

  
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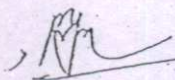
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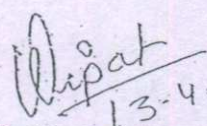
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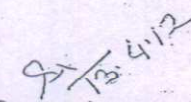
State Environment Impact Assessment Authority, M.P.

(Government of India; Ministry of Environment & Forests)  
Research and Development Wing, Madhya Pradesh Pollution Control Board,  
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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>, 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 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, GoI, 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.

  
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