



Government of India  
Ministry of Environment, Forest and Climate Change  
(Issued by the State Environment Impact Assessment  
Authority(SEIAA), Madhya Pradesh)

To,

The Director  
SAGAR SERVICES AND RESOURCES PVT. LTD.  
E-2/4, Arera Colony, Bhopal M.P. -462016

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/MP/MIS/236429/2021 dated 29 Oct 2021. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	EC22B038MP142484
2. File No.	8780/2021
3. Project Type	New
4. Category	B2
5. Project/Activity including Schedule No.	8(a) Building and Construction projects
6. Name of Project	300bedded Hospital Project
7. Name of Company/Organization	SAGAR SERVICES AND RESOURCES PVT. LTD.
8. Location of Project	Madhya Pradesh
9. TOR Date	N/A

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 12/01/2022

(e-signed)  
Shriman Shukla  
Member Secretary  
SEIAA - (Madhya Pradesh)

*Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.*

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**Ref: Proposal No. SIA/MP/MIS/236429/2021, Case No 8780/2021:** Prior Environment Clearance for Construction of 300 Bedded Sagar Multispecialty Hospital Project at Khasra no. 328/2/2/2, 330, 331, 332, 328/2/4, 330, 331, 332, 328/2/5, 330, 331, 328/330/331/2/3, at Village - BawadiaKalan, Tehsil - Huzur, Dist. Bhopal (MP) Total Land Area - 5377.620 sq. m Total Proposed Built Up area- 25539.6 sq m by M/s Sagar Services and Resources Pvt. Ltd, Shri Siddharth Agrawal, Director, E-2/4, Arera Colony, Dist. Bhopal, MP - 462016., Ph- 755-2460107 Email: [ssr.project@thesagar.in](mailto:ssr.project@thesagar.in). Env't. Consultant: Creative Enviro Services, Bhopal (MP)

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 -2, Form IA, Conceptual Plan, drawings and subsequently submission of EMP report, 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. This is a case of Prior Environment Clearance for Construction of 300 Bedded Sagar Multispecialty Hospital Project at Village - BawadiaKalan, Tehsil - Huzur, Dist. Bhopal (MP). It is a multispecialty hospital project with provision of green features like solar power plant ( 20 KW), MBBR technology based STP ( 220 KLD) and ETP of 40 KLD, MSW management, energy conservation measures, rain water harvesting system etc.
- ii. As per the T & CP Bhopal (vide letter dtd13.09.2021) the land area of the project is 5377.620 sq. m. The total built up area proposed by PP is 25539.6sq.m. The project comes under 8 (a) category (B) of schedule of EIA Notification, 2006 because total construction is between 20,000 sqmt.& 1,50,000 sqmt. and plot area is less than 50 ha.
- iii. The case was discussed in SEAC meeting 529<sup>th</sup> dtd.24.11.21 and is recommended for grant of prior EC subject to specific conditions.
- iv. Regarding land documents PP has submitted KhasraPanchsala 2021-22. As per the Khasra Panchsala. The landownership is the name of Sagar Services and Resources Pvt. Ltd, through Director, Shri Siddharth Agrawal.
- v. **Summary of the project:**

S.No.	Item	Details
1.	Name & Location of the project	300 Beds Multispecialty Hospital 328/2/2/2,330,331,332,328/2/4,330,331,332,328/2/5,330,331,328/330/331/2/3, Hoshangabad Road, Bhopal (MP)
2.	Geological Location	Latitude: 23°10'16.85"N and Longitude : 77°27'40.61"E
3.	Site Feature	(a) East -60 m wide Hoshangabad Road (b) West - Shree Ram Colony (c) North- Vasundhara Marriage Garden (d) South- Shankar Sevani and Colony Road
	Railway Station	Rani Kamplapati-4.5 km
	Airport	Bhopal -21 km
	Topography	Plain
	Land use pattern	Residential & Commercial
	Total Plot Area	5377.620 sqmt
	Total Built up area	25539.6 sqmt

	Covered Area (F.A.R)	10668.430 sqmt
	Height of Buildings	27.4M
4.	There are 6 <sup>th</sup> floor constructed at the project site comprising	<p><b>Ground floor</b> - Emergency, OPD'S, OPD registration</p> <p><b>First floor</b>- OPD'S (Consultation rooms), EMG/EEG, IVF dept., Endoscopy And dialysis</p> <p><b>Second floor</b>- Baby delivery, PICU, NICU, ICU, Blood bank, Patient relative wait</p> <p><b>Third floor</b>- CCU, Cath-Lab, ICU, OT, Patient relative wait, Pre&amp; Post beds</p> <p><b>Fourth floor</b> - General wards(5bedded), Single rooms, Double rooms</p> <p><b>5th&amp;6th floor</b> - Suite, Single Rooms &amp; Double rooms</p>
<b>Environment Impact and Its Management</b>		
5	Water Requirement	<p>Total 271 KLD</p> <p>Net fresh water requirement- 200KLD The Source of water supply is Municipal Corporation Bhopal. PP has obtained NOC (dtd. 27.09.20) from BMC for water supply.</p>
6	Total Sewage Waste Water Generation & Effluent utilization	<p>217 KLD ( 180 KLD+ 37KLD)</p> <p>The Sewage treatment will be done in the STP of capacity 220 KLD and ETP of 40 KLD capacity. Proponent will provide the STP to treat the discharge up to tertiary level and the ETP to treat Hospital effluent from O&amp;T and Pathology. Total treated water available: 188 KLD from STP &amp; ETP. The Treated water will be used for flushing (65 KLD), green area (20 KLD)HVAC &amp; DG Cooling Tower) -80 KLD and remaining 23 KLD will be disposed of to the sewer line.</p>
7	Rainwater harvesting	2 number of rainwater harvesting pits provided at the site for ground water recharging as per the CGWB norms.
8	Air pollution control	<p>Impact- Emissions of SPM, SO<sub>2</sub>, NO<sub>2</sub> and CO Running D.G. sets</p> <p>Regular monitoring of emissions and control measures will be taken to reduce the emission levels.</p>
9	Solid Waste Generation	<p>About 500kg/day solid waste will be generated in the project. The biodegradable waste will be converted into manure by mechanical composter and the non biodegradable waste generated will be handed over to the common municipal waste landfill site. PP has submitted letter dtd.27.09.21 issued by BMC for disposal of solid waste. The STP sludge &amp; ETP sludge shall be used as manure for the development of green belt whereas the ETP sludge shall be disposed off at the common bio medical waste treatment facility Mandideep for incineration along with other biomedical waste of the hospital.</p> <p>The excavated soil of 5200 cum shall also be disposed off over 2 acres of land as given by BDA in Misrod Phase-I scheme.</p>

10	Bio Medical Waste Generation	150 Kg per day BMW is collected as per colour codes and being given to M/s. Bhopal Incinerator Pvt. Ltd. for treatment and disposal.
11	Energy Requirements & Saving	The total power requirement will be 1763 KW (approx) which will be met by Madhya Pradesh PaschimKshetraVidyutVitrان Company Ltd .DG set of 3X1010 KVA will be installed as stand-by arrangements. For energy conservation use of energy efficient devices like light sources such as true-lie fluorescent lamps& LED, use of insulation on roof top to reduce air-conditioning load, high efficiency CFL lighting proposed in all public areas and stand alone external solar photovoltaic lighting is also prosed. Total Energy Saving (Kwh / Year)Using Led Lamps And Solar Power Plant - 973309.81
12	Area of parking	Parking's for 364 Nos over area of 4282.7SqMtrs inclusive of Basement 2, Basement 3& Ground floor.
13	Proposed Green Area	The 750 sq. meters (14%) of total area shall be provided for green belt development.
14	Fire Fighting Measures	<ul style="list-style-type: none"> <li>• PP has proposed to provide External Wet riser system, Internal fire hydrants strategically located to cover maximum area, Fire pump, Sprinkler pump, Jockey pump, Sprinklers system, Two-way communication system, External yard hydrants, Portable fire extinguishers CO<sup>2</sup> type fire extinguishers 4.5 Kg capacity.</li> <li>• Dry Chemical Powder type fire extinguishers (Stored Pressure Type) 5 Kg capacity each</li> <li>• Fire bucket with stand (For sand / water) Fire Alarm system. etc. as per NBC 2005.PP has obtained fire fighting NOC dtd 08.06.21 from Municipal Corporation Bhopal.</li> </ul>
15	PROPOSED CER BUDGET AND ACTIVITY	<p><b>Rs 40 Lacs</b> shall be provided for execution of need base CER activities.</p> <ul style="list-style-type: none"> <li>• Adaptation of Tiger At Van ViahR Bhopal</li> <li>• Health awareness progarmme twice in year ( Rs 50,000/-) for each village for one time Generation of employment for food court , maintenance staff etc. In 10 villages surrounding to Bhopal</li> <li>• Adaptation of school with provision of furniture ( 50 table and chairs in each class room ) , Fans at each rooms, Library, Up gradation of toilets ( 4 for girls and 04 for boys ) , Drinking water facility ( RO )- 04 numbers), sport ground, and boundary wall. School of village dist Bhopal (MP)</li> </ul>
16	EMP cost of the project	PP has proposed Rs. 290 lakh as capital cost and Rs. 38 lakh/year for recurring expenses in the operation phase.

Based on the information submitted at Para i to v above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 697<sup>th</sup> meeting held on 27.12.2021 and decided to accept the recommendations of 529<sup>th</sup> SEAC meeting held on dated 24.11.2021.

Hence, Prior Environmental Clearance is accorded under the provisions of EIA Notification dtd. 14<sup>th</sup> September 2006 & its amendments to the proposed Construction of 300 Bedded Sagar Multispecialty Hospital Project at Khasra no. 328/2/2/2, 330, 331, 332, 328/2/4, 330, 331, 332, 328/2/5, 330, 331, 328/330/331/2/3, at Village – Bawadia Kalan, Tehsil - Huzur, Dist. Bhopal (MP) Total Land Area - 5377.620 sq. m Total Proposed Built Up area- 25539.6 sq m by M/s Sagar Services and Resources Pvt. Ltd, Shri Siddharth Agrawal, Director, E-2/4, Arera Colony, Dist. Bhopal, MP – 462016 subject to the compliance of the Standard Conditions 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 and there should 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. Sewage shall be treated in the STP based on MBBR Technology with tertiary treatment i.e. Ultra Filtration. The Treated effluent from STP shall be recycled /reused for flushing, DG cooling, Gardening and HVAC.
  - b. PP should ensure linkage with municipal sewer line for disposal of extra treated waste water.
  - c. Zero discharge should be maintained for lab waste water generation to ETP.
4. **Solid & Bio-medical 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. Wet Garbage shall be composted in Organic waste convertor. Adequate area shall be provided for solid waste management within the premises which will include area for segregation, composting. The Inert waste from the project will be sent to dumping site.
  - d. Ensure linkage with Municipal Corporation for final disposal of MSW.
  - e. Bio-medical waste should not be mixed with MSW. ETP sludge shall be disposed at approved TSDF and MoU made in this regard shall be submitted to the MPSEIAA prior to the commencement.
  - f. Separate space should be provided for collection & storage Bio-medical waste.
  - g. Transportation and handling of Bio-medical Wastes shall be as per the Biomedical Wastes (Management and Handling) Rules, 2000 including the section 129 to 137 of Central Motor Vehicle Rules, 1989.
5. PP should ensure road width, front MOS and side / rear as per MPBVR 2012.
6. **For firefighting:-**
  - a. PP should ensure distance of fire station approachable from the project site.
  - b. 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.

**7. For Rain Water Harvesting, and Ground water recharge:-**

- a. PP should ensure the rain water harvesting with 02 no. of recharging pits and these pits should be connected laterally to consume the surplus runoff. In addition, PP should provide recharging trenches. The base of the trenches should be Kachha with pebbles.
- b. The storm water from roof – top, paved surfaces and landscaped surfaces should be properly channelized to the rain water harvesting sumps through efficient storm water network as proposed. The budget should be included in EMP plan for storm water management.

8. PP should ensure to provide car parking total- 364 ECS inclusive of Basement 2, Basement 3 & Ground floor and explore the possibility to increase the parking space.

**9. For Energy Conservation PP should Ensure :-**

- a. Energy Saving by Using Led Lamps And Solar Power Plant as proposed.
- b. Use of LED lights in the common areas, landscape areas, signage's, entry gates and boundary compound walls etc.
- c. Solar lights provide for common amenities like Street lighting & Garden lighting.
- d. PP should ensure installation of photovoltaic cells (solar energy) for lighting in common areas, LED light fixtures, and other energy efficient equipments.

**10. Green belt :-**

- a. PP should ensure plantation in an area of 750 sq. meters (14%) of total plot area with 350 numbers of trees at site along the road, around open space area, parking area and other amenities. Trees of indigenous local varieties like Neem, Peepal, Kadam, Karanj, Kachnaar, Saltree, Gulmohar etc. should be planted.
- b. 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.

11. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated: 1st May 2018, as applicable, regarding Corporate Environment Responsibility.

12. PP should ensure to submit half yearly compliance report with photographs of plantation in MP-SEIAA. If PP is failed to upload or submit two consecutive half yearly compliance reports of EC conditions to concerned authority (SEIAA and Regional Office, MoEF&CC, Gol, Bhopal) than prior environmental clearance issued to PP will automatically be treated as cancelled/ revoked as per OM No. 930/SEIAA/2019 dated 30.05.2019 issued by MPSEIAA.

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

**I Statutory Compliance**

- i. The project proponent shall obtain all necessary clearance/permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.

- ii. The approval of the Competent Authority shall be obtained for structural safety of building due to earthquakes, adequacy of firefighting equipment etc as per National Building code including protection measures from lightening etc.
- iii. The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/Committee.
- iv. The project proponent shall obtain the necessary permission for drawl of ground water/surface water required for the project from the competent authority.
- v. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- vi. All other statutory clearances such as the approvals for storage of diesel from Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- vii. The provisions for the solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016 and the Plastics Waste (Management) Rules, 2016 shall be followed.
- viii. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power Strictly.

## **II. Air quality monitoring and preservation**

- i. Notification GSR 94(E) dated: 25/1/2018 MoEF & CC regarding Mandatory implementation of Dust Mitigation Measures for Construction and Demolition Activities for project requiring Environmental Clearance shall be complied with.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released covering upwind and downwind directions during the construction period.
- iv. Total Power Requirement for the proposed project is 163 KVA
- v. Diesel power generating sets proposed (Capacity – 1010 KVA X 3) as source of backup power 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 shall be used on DG Sets. The location of the DG sets may be decided with-in consultation with MP Pollution Control Board.
- vi. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking wills all around the site plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, Murram and other construction materials prone to causing dust polluting at the site as well as taking out debris from the site.
- vii. Sand, Murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- viii. Wet jet shall be provided for grinding and stone cutting.
- ix. Unpaved surface and loose soil shall be adequately sprinkled with water to suppress dust.
- x. All construction and demolition debris shall be stored at the site (are not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016.
- xi. The gaseous emission from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xii. For indoor air quality, the ventilation provisions as per National Building Code of India shall be provided.

### III Water quality monitoring and preservation

- i. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iii. Total fresh water use shall not exceed 200 KLD, and treated water available for reuse will be 188 KLD.
- iv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be monitor and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF& CC along with six monthly Monitoring reports.
- v. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for separately for ground water and surface water sources, ensuring that there is no impact on other users.
- vi. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
- vii. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
- viii. PP should explore the possibility of providing water saving devices/fixtures (Viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation.
- ix. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
- x. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xi. Rain water harvesting recharge pits 2 nos. shall be provided for ground water recharging as per the CGWB norms.
- xii. All recharge should be limited to shallow aquifer.
- xiii. No ground water shall be used during construction phase of the project.
- xiv. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering, if any.
- xv. Sewage shall be treated in the STP 220 KLD with tertiary treatment whereas effluent from Laundry, OPD, OT, Pathology labs shall be treated in the ETP of 40 KLD. The treated effluent from STP of 188 KLD from STP shall be recycled/re-used for flushing and gardening. The 23 KLD treated surplus water and treated effluent from ETP shall only be disposed in to municipal drain after having approval from the competent authority.
- xvi. No sewage or untreated effluent water would be discharged through storm water drains.
- xvii. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odor problems from STP.
- xviii. Sludge from the onsite sewage treatment including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Control Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.
- xix. The sludge from the ETP and other biomedical waste shall be disposed off common bio medical waste treatment facility, Mandideep dist Raisen (MP)



#### IV Noise monitoring and prevention

- i. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitoring during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/SPCB.
- ii. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- iii. Acoustic enclosures for DG sets (Capacity- 3X1010 KVA), noise barriers for ground run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

#### V Energy Conservation measures

- i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Building in the State which have notified their own ECBC, shall comply with the State ECBC.
- ii. Outdoor and common area lighting shall be LED.
- iii. Energy conservation measures like installation of LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
- iv. Solar, wind or other Renewable Energy shall be installed in meet electricity generation equivalent to 1% of the demand load or as per the state level/local building bye-law's requirement, whichever is higher.
- v. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power.

#### VI Waste Management

- i. Disposal of muck during construction phase shall not create any adverse effect on the neighboring 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.
- ii. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste (500 KGD) shall be segregated into wet garbage and inert materials.
- iii. Separate coloured bins shall be provided for collection and storage of biomedical waste ( 150 kg per day) as per Bio MedcialWsate Treatment Act 2016 and shall be disposed off at common bio medical waste treatment facility, MandideepDistRaisen (MP)
- iv. E-waste (100 Kg/Year) should properly dispose of through authorized vendors.
- v. All non-biodegradable waste shall be handed over the authorized recyclers for which a written lie up must be done with the authorized recyclers.
- vi. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the MP Pollution Control Board.
- vii. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction materials quantity. These include fly ash brick, hollow bricks AACs, Fly Ash Lime Gypsum block, compressed earth blocks and other environmental friendly materials.
- viii. 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 27th August, 2003 and 25th January, 2016 Ready mixed concrete must be used in building construction.
- ix. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the construction and Demolition Rules, 2016.

- x. Used CFLs, TFLs and other e-waste should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid contamination.

#### **VII Green Cover**

- i. Not tree can be felled/transplant unless exigencies demand. Where absolute necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department.
- ii. Peripheral plantation of broad leaves 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 plantation scheme minimum of 350no's of trees to be planted. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
- iii. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
- iv. As proposed, the green belt development / plantation activities should be completed within the first three years of the project and the proposed species should also be planted in consultation with the forest department.
- v. Topsoil should be stripped to depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stack plied appropriately in designated areas and reapplied during plantation of the proposed vegetations on site.

#### **VIII Transport**

- i. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public and private network. Road should be designed with due consideration for environment and safety of users. The road system can be designed with these basic criteria.
  - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic
  - b. Traffic calming measures.
  - c. Proper design of entry and exit points
  - d. Parking norms as per local regulation
- ii. 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 be operated only during non-peak hours.
- iii. A detailed traffic management and traffic decongesting plan shall be drawn up to ensure that the current level of service of the road within a 05 Kms radius of the project as maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of the development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management and the PWD/competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

#### **IX Human health issues**

- i. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- ii. For indoor air quality the ventilation provisions as per National Building Code of India.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implementation.

- iv. 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, 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.
- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

**X EMP & Corporation Environment Responsibility**

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated: 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. In the EMP PP has proposed Rs. 290 lakh as capital cost and Rs. 38 lakh/year for recurring expenses in the operation phase.
- iii. Under CER different activities the PP has proposed Rs, 40 Lakh.

SN	Plan	Area of Activity	Budgetary provisions (Rs in lacs)
1	Adaptation of Tiger	At Van Viah-Bhopal	Rs 5 Lacs
2	Health awareness progarmme twice in year ( Rs 50,000/-) for each village for one time	In 10 villages surrounding to Bhopal	Rs 10 Lacs
3	Adaptation of school with provision of furniture ( 50 table and chairs in each class room ) , Fans at each rooms, Library, Up gradation of toilets ( 4 for girls and 04 for boys ) , Drinking water facility ( RO )- 04 numbers), sport ground, and boundary wall	School of village dist Bhopal (MP)	Rs 25 Lacs
<b>Total</b>			<b>40 Lacs</b>

- iv. The company shall have a well laid down environmental policy duly approved by the Board of Directors, The Environmental policy should prescribe for standard operating procedures to have proper checks and balance and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the Environmental/forest/wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six monthly reports.
- v. A separate Environmental Cell both at the project and company head quarter with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- vi. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

**XI Miscellaneous**


- i. The project authorities must strictly adhere to the stipulation made by the MP Pollution Control Board and the State Government.
- ii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the State Expert Appraisal Committee (SEAC)

- iii. No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- iv. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- v. The above conditions shall 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, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon<sup>ble</sup> Supreme Court of India/High Courts and any other Court of Law relating to the subject matter.

**Standard Conditions:**

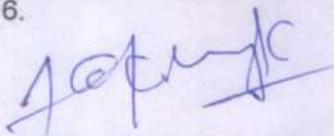
1. All activities / mitigative measures proposed by PP in Environmental Impact Assessment (if applicable) and approved by SEAC must be ensured.
2. All activities / mitigative measures proposed by PP in Environmental Management Plan and approved by SEAC must be ensured.
3. Project Proponent has to strictly follow the direction/guidelines issued by MoEF, CPCB and other Govt. agencies from time to time.
4. The Ministry or any other competent authority may alter/modify the conditions or stipulate any further condition in the interest of environment protection.
5. The Environmental Clearance shall be valid for a period of seven years from the date of issue of this letter.
6. The Project Proponent has to upload soft copy of half yearly compliance report of the stipulated prior environmental clearance terms and conditions on 1st June and 1st December of each calendar year on MoEF & CC web portal - <http://www.environmentclearance.nic.in/> or <http://www.efclearance.nic.in/> and submit hard copy of compliance report of the stipulated prior environmental clearance terms and conditions to the Regulatory Authority also
7. 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.
8. 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.
9. 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.
10. 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 Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.

11. 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.
12. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF.
13. 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.
14. 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.
15. 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.

  
(Shriman Shukla)  
Member Secretary

Copy to:-

- (1). Principal Secretary, Department of Environment., Government of MP, Mantralaya Vallabh Bhawan, Bhopal.
- (2). Member 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.

  
(Alok Nayak)  
Officer-in-Charge