



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

To,

The Partner  
PADMANABH DEVELOPERS

Office No. 01 at adjoining Gujrati Colony, behind Tilak Nagar Colony,  
Bawadia Kalan, Tehsil - Huzur, District - Bhopal and State - Madhya  
Pradesh -462042

**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/252103/2022 dated 18 Jan 2022. The particulars of the environmental  
clearance granted to the project are as below.

- |   |  |
|---|--|
| 1. EC Identification No.                      | EC22B038MP122516   |
| 2. File No.                                   | 8941/2022  |
| 3. Project Type                               | New  |
| 4. Category                                   | B2   |
| 5. Project/Activity including<br>Schedule No. | 8(a) Building and Construction projects                                  |
| 6. Name of Project                            | Proposed "18th Avenue" High Rise<br>Residential and Commercial Apartment |
| 7. Name of Company/Organization               | PADMANABH DEVELOPERS   |
| 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: 09/04/2022

(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.*

*This is a computer generated cover page.*

PARIVESH

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and Virtuous Environmental Single-Window Hub)



**Ref: Proposal No. SIA/MP/MIS/252103/2022, Case No 8941/2022:** Prior Environment Clearance for Proposed "18<sup>th</sup> Avenue" High Rise Residential and Commercial Apartment at Village - Bawadia Kalan, Tehsil - Huzur, Dist. Bhopal (MP) Plot area- 36,380 sq.m (3.638 ha). Built-up area- 26,623.84 sq.m. by M/s Padmanabh Developers, Shri Rajesh Patidar, Partner, Office No. 01 at adjoining Gujrati Colony, Behind Tilak Nagar Colony, Bawadia Kalan, Tehsil - Huzur, Dist. Bhopal, MP - 462042 Email: [padmanabhdevelopers18@gmail.com](mailto:padmanabhdevelopers18@gmail.com). Env't. Consultant: Global Management and Engineering Consultants International, Jaipur

With reference to above the proposal has been appraised as per prescribed procedure & provisions under the EIA notification issued by the Ministry of Environment & Forests vide S.O. 1533 (E), dated 14th September 2006 and its 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. The proposed project "18th Avenue" Residential and Commercial Apartment by M/s Padmanabh Developers which is to be developed at Village – BawadiaKalan – Fanda, Tehsil – Huzur & District – Bhopal and State – Madhya Pradesh. The total plot size for the project is 36,380 sq.m. (3.638 Ha).The Proposed project consists of Multiunit Residential and Commercial Apartments, Plots & Shops.
- ii. The total plot area for Multiunit Residential/Convenient Shop Development purpose is 15,718.34 sq.m. and for Plotted Residential Development purpose is 14,675.54 sq.m.
- iii. As per the T & CP Bhopal (vide letter dtd 25.10.2021) the land area of the project is 36,380 sq.m (3.638 ha).The total built up area proposed by PP is 26,623.84sq.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 sq.mt. and plot area is less than 50 ha.
- iv. The case was discussed in SEAC meeting 548<sup>th</sup> dtd.10.02.22 and is recommended for grant of prior EC subject to specific conditions.
- v. Regarding land documents PP has submitted Registration certificated dated 16.01.2020. As per the land documents the landownership is the name of M/s Padmanabh Developers, through Partner Shri Rajesh Patidar.
- vi. **Summary of the project:**

Sr. No.	Item	Details
1.	Geological Location	Latitude : 23°11'05.13"N and Longitude : 77°26'18.84"E
	a) Railway Station	Bhopal Railway station -24.7 km
	b) Airport	Bhopal -20.50 km
	c) NH-46	7.22
	d) Van vihar national park:	15.2 km (SE)
	e) Land use pattern	Residential & Commercial
2.	Total land Area	36,380 Sq m(3.638 Ha)
3	Built-up Area	26,623.84 sq.m.
4	Road Area Surrendered	5,986.12 Sq m
5	Net plot Area	30,398.88 Sq m
6	Height of Buildings	Basement + stilt parking+ 24m
7	Front MOS	9.0
8	All Side/rear	6.0
9	Project components	Residential Unit-209 Nos. EWS Units-19 Nos. LIG Units-13 Nos. Shops-204 Nos.

10	Environment Impact and Its Mangement	
i.	Water Requirement	The total water requirement during operation phase is 220.27 KLD out of which 125.96 KLD is fresh water requirement. The Source of water supply is Municipal Corporation Bhopal. PP has obtained NOC (dtd. 03.01.22) from BMC for water supply.
ii.	Total Sewage Waste Water Generation & Effluent utilization	Total 176.17 KLD waste water will be generated from the project area. The MBBR based STP will be provided 200 KLD, out of which 69.10 KLD recycled water will be used for flushing, 25.19 KLD water will be used for horticulture and 64.71 KLD water will drain.
iii.	Drainage	<ul style="list-style-type: none"> <li>• Currently the project site is almost a flat land.</li> <li>• No water body or drains passes through the project site.</li> <li>• Leveling of the site is so done to maintain the natural gradient.</li> <li>• It will not have any adverse effect on the surrounding of the project site.</li> </ul>
iv.	Rainwater harvesting	<ul style="list-style-type: none"> <li>• During operation phase, ground water will be extracted to meet the water demand of the occupants.</li> <li>• The Ground water level will be maintained by constructing 03 number of Rain Water Harvesting at project site as per the CGWB norms.</li> </ul>
v.	Air pollution control	<ul style="list-style-type: none"> <li>• Source of air pollution: Vehicular movement and DG sets</li> <li>• To combat air pollution (PM2.5, PM10, SO2, CO and NO2), development of green belt has been proposed and proper traffic management would be ensured.</li> <li>• Stack height of 32 m above the ground level is proposed to be provided as per CPCB guidelines.</li> </ul>
vi.	Solid Waste Generation	About 0.92 TPD 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.31.12.21 issued by BMC for disposal of solid waste. The STP sludge shall be used as manure for the development of green belt.
vii.	E-Waste	E- waste managed as per E- waste management & Handling rules 2011. It will be handed over to CPCB approved vendors.
viii.	Energy Requirements & Saving	<p>The total power requirement will be 1435 KW which will be met by Madhya Pradesh Paschim Kshetra Vidyut Vitran Company Ltd .DG set of 192 KVA (1 x 64 kVA &amp; 1 x 128 kVA) will be installed as stand-by arrangements. For energy conservation Maximum use of natural lighting through architectural design.</p> <ul style="list-style-type: none"> <li>❖ All common spaces including street lights (where there is no use of light for reading purposes), will be of "LED. All internal lighting will be BEE star rated and solar lit, at least to an extent of 25%.</li> <li>❖ Integration of automated system to operate electrical equipment as per load requirement to save energy</li> <li>❖ Use of solar energy for street lighting.</li> <li>❖ Appropriate Design to shut out excess heat and gain loss.</li> </ul>
ix.	No. of parking	266 ECS (Basement-206 ECS Stilt-60 ECS )
x.	Proposed Green Area	<ul style="list-style-type: none"> <li>• For the project, Greenery will be provided in 1729.01 sq.m (@ 11% of the plot area), which will enhance the beauty of the site and help combat air and noise</li> </ul>

		<p>pollution.</p> <ul style="list-style-type: none"> <li>• A diverse variety of indigenous evergreen and ornamental trees would be planted.</li> <li>• The plant species will be selected on the basis of Urban Standard Plantation norms and CPCB guidelines.</li> </ul>
xi.	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>• The entire complex has been provided with fire fighting arrangements as per NBC, 2005. There will be adequate location of fire hydrant with Hose Reel proposed to be installed in all blocks.</li> <li>• Firewater inlet &amp; outlet connections has been provided to the water storage tanks;</li> <li>• Fire Fighting lines with Fire hydrants and sprinkler system are proposed as per the National Building code</li> <li>• Minimum 7.5 meters wide black top road proposed for traffic movement.</li> </ul>
xii.	<b>PROPOSED CER BUDGET AND ACTIVITY</b>	<p>Rs10 Lacs shall be provided for execution of need base CER activities.</p> <ul style="list-style-type: none"> <li>• adoption of an animal from Van Vihar National Park, Bhopal -2 lakh</li> <li>• Organising Medical and Blood Donation Camp in nearby villages -2 lakh</li> <li>• Upgradation of classrooms in school or providing to education aid to economically weaker children or Provision of aid in health centres or providing aid to armed forces families , -6 lakh</li> </ul>
xiii.	EMP cost of the project	PP has proposed Rs. 228.30 Lakhs as capital and Rs. 20.56Lakhs as recurring cost for this project.

Based on the information submitted at Para i to vi above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 714<sup>th</sup> meeting held on 24.03.2022 and decided to accept the recommendations of 548<sup>th</sup> SEAC meeting held on dated 10.02.2022.

Hence, Prior Environmental Clearance is accorded under the provisions of EIA Notification dtd. 14<sup>th</sup> September 2006 & its amendments to the proposed "18<sup>th</sup> Avenue" High Rise Residential and Commercial Apartment at Village - Bawadia Kalan, Tehsil - Huzur, Dist. Bhopal (MP) Plot area-36,380 sq.m (3.638 ha). Built-up area- 26,623.84 sq.m. by M/s Padmanabh Developers, Shri Rajesh Patidar, Partner, Office No. 01 at adjoining Gujrati Colony, Behind Tilak Nagar Colony, Bawadia Kalan, Tehsil - Huzur, Dist. Bhopal, MP - 462042 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, and Gardening
- b. PP should ensure linkage with municipal sewer line for disposal of extra treated waste water.

4. **Solid 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.
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 firefighting 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 firefighting measures are physically in place.

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

- a. PP should ensure the rain water harvesting with 03 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.
- c. Additional soil for leveling of the proposed site should be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved

8. PP should ensure to provide car parking total- 266 ECS (Basement-206 ECS Stilt-60 ECS )

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

- a. Solar lights provide for common amenities like Street lighting & Garden lighting.
- b. PP should ensure installation of photovoltaic cells (solar energy) for lighting in common areas, LED light fixtures, and other energy efficient equipments.
- c. Electrical charging points for E-Vehicles shall be provided to promote clean energy

10. **Green belt :-**

- a. PP should ensure plantation in an area of 1729.01 sq.m 11% of the plot area of total plot area 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. PP should explore the possibility to increase the green area on the project site.
- c. 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. Under CER different activities the PP has proposed Rs. 10.00 Lakh for following activities .
- adoption of an animal from Van Vihar National Park, Bhopal -2 lakh
  - Need base activities should be done in in nearby villages consultation with district administration/village panchayat -2 lakh
  - Upgradation of classrooms in school or providing to education aid to conomically weaker children or Provision of aid in health centres or providing aid to armed forces families, adoption of an animal from Van Vihar National Park, Bhopal-6 lakh
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 Chief Controller of Explosives, 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.
- ix. The project area shall be secure through boundary wall and excavated top soil shall not be used in filling of low lying area. The top soil shall be used for greenery development.

**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. 02 Diesel power generating sets (1 x 64) & (1 x 128) proposed 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. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- v. 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 walls 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.

- vi. Sand, Murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vii. Wet jet shall be provided for grinding and stone cutting.
- viii. Unpaved surface and loose soil shall be adequately sprinkled with water to suppress dust.
- ix. 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.
- x. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- xi. The gaseous emission from DG sets (1 x 64) & (1 x 128) 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. The total water requirement during operation phase is 220.27 KLD out of which 125.96 KLD is fresh water requirement and 176.17 KLD will be the total recycled water generated, out of which 69.10 KLD recycled water will be used for flushing, 25.19 KLD water will be used for horticulture and 64.71 KLD water will drain.
- iv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured 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 11% of the open spaces as required by the local building bye-laws shall be previous. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as previous 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. All recharge should be limited to shallow aquifer.
  - xii. No ground water shall be used during construction phase of the project.
  - xiii. The quality of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The recorded shall be submitted to the Regional Office, MoEF & CC along with six monthly Monitoring report.
  - xiv. Sewage shall be treated in the MBBR based STP (Capacity - 200 KLD). The treated effluent from STP shall be recycled/re-used for flushing. AC makes up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
  - xv. The waste water generated from the project shall be treated in STP of 200 KLD capacity (based on MBBR based technology) and then reused for various purposes. No water body or drainage channels are getting affected in the study area because of this project.
  - 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 odour 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.

#### **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, 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. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
- iv. Energy Conservation measures like installation of CFIs/LED's for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
- v. Solar, wind or other renewable energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level /local building bye-laws requirement, which is higher.
- vi. 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. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional



building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

#### **VI Waste Management**

- i. Total waste 0.92 TPD, and these all type of waste shall be treated/ disposed off as per provision made in the MSW Rules 2016.
- ii. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the MSW generated from project shall be obtained.
- iii. 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.
- iv. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste (0.4 ton/day) shall be segregated into wet garbage and inert materials.
- 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 State 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 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.

#### **VII Green Cover**

- i. Total 310 trees shall be planted in the area of 1729.01 m<sup>2</sup> (11 % of total plot area) which is developed as greenbelt development.
- ii. 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. Plantations to be ensured species (cut) to species (Planted).
- iii. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should included plantation of native species. 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. Where the trees need to be cut with prior permission from the concerned local Authority, Compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
- 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 stock piled 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. For Environment Management Plan PP has proposed Rs. 228.30 Lakhs as capital and Rs. 20.56 Lakhs as recurring cost for this project.
- ii. For this project PP has proposed Rs. 10.00 Lakhs as Corporate Environment Responsibility (CER) for remaining project component which is also include for adoption of an animal from Van Vihar National Park, Bhopal .
- iii. 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.
- iv. 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.
- v. 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 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)
- ii. 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).
- iii. 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:**

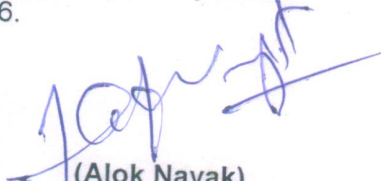
1. All activities / mitigative measures proposed by PP in Environmental Impact Assessment (if applicable) and approved by SEAC must be ensured.
2. All activities / mitigative measures proposed by PP in Environmental Management Plan and approved by SEAC must be ensured.
3. Project Proponent has to strictly 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. 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.
7. 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
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
  14. 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.
  15. 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.
  16. 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, Paryavaran Parisar, E-5, Arera Colony, Bhopal, MP
- (7). Director (S), Regional office of the MOEF, (Western Region), Kendriya Paryavaran Bhawan, Link Road No. 3, Ravi Shankar Nagar, Bhopal-462016.
- (8). Guard file.

  
(Alok Nayak)  
Officer-in-Charge