



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

To,

The Owner  
KAMAL PARMANI  
H.I.G 441/E-7 Arera Colony Bhopal (M.P) -462001

**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/INFRA2/405951/2022 dated 08 Dec 2022. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	EC23B000MP148812
2. File No.	9521/2022
3. Project Type	New
4. Category	B
5. Project/Activity including Schedule No.	N/A
6. Name of Project	"The Hub" Development of Local Shopping Center
7. Name of Company/Organization	KAMAL PARMANI
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: 01/02/2023

(e-signed)  
Shri,Mujeebur Rehman Khan  
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

(Pro-Active and Responsive Facilitation by Interactive,  
and Virtuous Environmental Single-Window Hub)



**Ref:Proposal No. SIA/MP/INFRA2/405951/2022, Case No 9521/2022:** Prior Environment Clearance for Construction of Local Shopping Center Project "The Hub" at Khasra No. 98/1/2, 98/1/1/1/1, 99, 100, 101, 102/1, 495/98, 107, Village-Bawadiya Kalan, Tehsil-Kolar/Huzur Dist. Bhopal (MP) total plot size of the project :11,635.00 sq.m. (2.875 acre) and total proposed built Up Area: 35,870.01 sq.m by Smt. Kamal Parmani, Smt. Paragini Parmani, M/s Paras Housing (India) Pvt. Ltd., HIG-441 E-7, Arera Colony, Bhopal (MP)-462016 Email: [parashousing0.5@gmail.com](mailto:parashousing0.5@gmail.com) Env. Amaltas Enviro Industrial Consultant LLP, Gurugram (Haryana)

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 Local Shopping Center Project "The Hub" at Khasra No. 98/1/2, 98/1/1/1/1, 99, 100, 101, 102/1, 495/98, 107, Village-Bawadiya Kalan, Tehsil-Kolar/Huzur Dist. Bhopal M.P.
- ii. As per the T & CP Bhopal (BPLLP – 6072/L.P.180/29(1)/Nagrani/Zika./2020, Bhopal, dated Nov. 2020 ) the land area of the project is 11295.0 sq.m (1.129 ha).The total built up area proposed by PP is 35,870.01 sq.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 proposed project is "The Hub" Development of Local Shopping Center by Smt. Kamal Parmani, Smt. Paragini Parmani & M/s Paras housing (India) Pvt. Ltd. which is to be developed at Khasra No.-: 98/1/1.99, 100, 101, 102/1, 495/98, 107, Village – Bawadiyakalan, Tehsil – Kolar/ Huzur, District – Bhopal, & State – M.P. The total plot size of the project is 11,635.00 sq.m. (2.875 acre) and total proposed built Up Area is 35,870.01 sq.m
- iv. प्रस्तावित प्रोजेक्ट में फ्लोर व दुकानें, बैंक्वेट हॉल, रूम स्टॉल व गेस्ट रूम, मल्टीप्लेक्स आदि शामिल हैं।
- v. परियोजना प्रस्तावक द्वारा जमा किये गये भूमि संबंधी दस्तावेजों के अनुसार भूस्वामित्व Smt. Kamal Parmani, Smt. Paragini Parmani, M/s Paras Housing (India) Pvt. Ltd. के नाम पर दर्ज है।
- vi. राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की 616वीं बैठक दिनांक 02.01.2023 की कार्यवाही विवरण में पृष्ठ क्र. 25 से 36 पर अंकित करते हुए पूर्व पर्यावरण स्वीकृति अनुशंसित की है।
- vii. परियोजना का विवरण निम्नानुसार है:-

(a) Area Statement :

S. No	Particulars	Total (m <sup>2</sup> )/Nos.
1.	Total Land	11,635 (2.875 Acres)
2.	Area Under 60 M Road	3890.00 Sqm
3.	Planning Area	7,405.00
4.	Ground Coverage Area (30 %)	2,221.50
5.	Permissible FAR	7,405.00
6.	Additional FAR Road Widening	7,780.00
7.	Total Permissible FAR	15,185.00
8.	Total Proposed FAR	13,090.50
9.	Total Proposed NON FAR	22,779.51

10.	<b>Total Built Up Area (FAR + NON FAR)</b>	<b>35,870.01</b>
11.	Basement Area	4,670.60
12.	Green Area	740.50
13.	Service Apartment	22.00
14.	No. of Commercial Shops	82
15.	Banquet Hall	2
16.	Hotel (Guest Room)	48
17.	Parking Proposed	330

(b) Project detail :

S.No	Item	Details
1.	Geological Location	Latitude 23 <sup>o</sup> 10'35.78" N to 23 <sup>o</sup> 10'39.51" Longitude 77 <sup>o</sup> 26'27.28 "E to 77 <sup>o</sup> 26'26.67"
4	Nearest Railway Station	Rani Kamlapati Station 4.08 N
	Nearest Airport	Raja Bhoj International Airport, Bhopal 16.29 WNW
5	Land use pattern	Residential
7	Dwelling Units	प्रस्तावित प्रोजेक्ट में प्लोर व दुकानें, बैंक्वेट हॉल, रूम स्टॉल व गेस्ट रूम, मल्टीप्लेक्स आदि शामिल हैं।
8	Height of buildings	T&CP के स्वीकृति के अनुसार भवन की अधिकतम ऊंचाई 24.0 m Front M O S & 9.0 m side / rear – 6-0 m है।
12	<b>Environment Impact and Its Mangement</b>	
13	Water Requirement	<b>Operational Phase</b> : 159 KLD (Fresh Water Requirement = 98.725 KLD) (Agency: Municipal corporation)  पानी की आवश्यकता नगर निगम के जलापूर्ति से पूरी की जाएगी। Operational Phase के लिए कुल पानी की आवश्यकता लगभग 155 केएलडी है। Fresh water की आवश्यकता लगभग 98.725 केएलडी है। परियोजना प्रस्तावक ने नगर निगम से (No. 484 dated 19.10.2022) जलापूर्ति हेतु अनुमति प्राप्त कर ली है।
14	<b>Total Estimated Wastewater Generation</b> Construction Phase Operation Phase	5.4 KLD (temporary soak pit) 139 KLD (Proposed 150KLD STP MBBR Technology)  सीवेज का उपचार एमबीबीआर आधारित एसटीपी (क्षमता-150 केएलडी) में किया जाएगा। एसटीपी से उपचारित बहिस्त्राव को प्लशिंग और बागवानी के लिए पुनर्चक्रित/पुनः उपयोग किया जाएगा। extra उपचारित waste water को नगर निगम के सीवर लाइन में छोड़ा जायेगा, जिसके लिए परियोजना प्रस्तावक ने नगर निगम से (No. 43/S.Y. (Sewage) Prko./N.Ni. Bhopal, Dated 19.10.2022) अनुमति प्राप्त कर ली है।
15	Rainwater harvesting	परियोजना स्थल पर 3 नग वर्षा जल संचयन टैंक का निर्माण कर भू-जल स्तर को बनाए रखा जाएगा।
16	<b>Power Demand Power Back-up DG Set</b>	1500 KW 250 kVA (1 x 250 kVA)

17	<b>Source of Power</b>	Madhya Pradesh Central Zone Electricity Distribution Company.
18	<b>Solid Waste Generation</b>	परियोजना से उत्पन्न ठोस अपशिष्ट मुख्य रूप से घरेलू कचरा है और कचरे की अनुमानित मात्रा 798.44 किग्रा/दिन है Municipal Solid Wastes (Management and Handling) Rules, 2016 के अनुसार स्थल पर ठोस अपशिष्ट निष्पादन की व्यवस्थाएं की जायें।
19	<b>Parking Facilities Proposed</b>	कुल प्रस्तावित पार्किंग व्यवस्था 330 ECS है जिसमें 156 ईसीएस बेसमेंट पार्किंग के लिए, 124 ईसीएस सेकंड फ्लोर पार्किंग के लिए और 50 ओपन पार्किंग के लिए है।
20	<b>Fighting Fire System</b>	नेशनल बिल्डिंग कोड के अनुसार फायर हाइड्रेंट और स्प्रिंकलर सिस्टम के साथ फायर फाइटिंग लाइनें प्रस्तावित हैं।
21	<b>Green Belt Development</b>	740.50 वर्ग मीटर (कुल भूखंड क्षेत्र का 10.00%) के क्षेत्र में लगाए जाएंगे, जिसे ग्रीनबेल्ट विकास के रूप में विकसित किया जाएगा।
22	<b>Project Cost</b>	<b>Rs. 48.00 Crores</b>

Based on the information submitted at Para i to VII above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 767<sup>th</sup> meeting held on 12.01.2023 and decided to accept the recommendations of 616<sup>th</sup> SEAC meeting held on dated 02.01.2023.

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 Local Shopping Center Project "The Hub" at Khasra No. 98/1/2, 98/1/1/1/1, 99, 100, 101, 102/1, 495/98, 107, Village-Bawadiya Kalan, Tehsil-Kolar/Huzur Dist. Bhopal (MP) total plot size of the project :11,635.00 sq.m. (2.875 acre) and total proposed built Up Area: 35,870.01 sq.m by Smt. Kamal Parmani, Smt. Paragini Parmani, M/s Paras Housing (India) Pvt. Ltd., HIG-441 E-7, Arera Colony, 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. स्वच्छ जल आपूर्ति की व्यवस्था नगर निगम के माध्यम से ही किया जाना सुनिश्चित करें।
2. परियोजना प्रस्तावक को अतिरिक्त उपचारित अपशिष्ट जल के निपटान के लिए नगर निगम की सीवर लाइन के साथ लिंकेज सुनिश्चित करें।
3. प्लशिंग और अन्य उद्देश्यों के लिए उपचारित बहिस्राव के पुनः उपयोग के लिए दोहरी प्लंबिंग प्रणाली अनिवार्य रूप से अपनाई जाये।
4. परियोजना से निष्क्रिय अपशिष्ट को डंपिंग साइट पर भेजा जाये एवं परियोजना प्रस्तावक को नगर निगम से MSW के निष्पादन हेतु अनिवार्यरूप से अनुमति प्राप्त की जाना चाहिये।
5. The fresh water supply arrangement should be met through Municipal Corporation and there should no extraction of ground water.
6. PP should ensure linkage with municipal sewer line for disposal of extra treated waste water.

7. Dual plumbing system to be provided for reuse of the treated effluent for flushing and other purposes.
8. Rain water will be harvested in the mined out area present at the project site. 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.
9. PP should ensure road width, front MOS and side / rear as per MPBVR 2012.
10. Compliance with earth quake resistance and resisting. The building shall be designed for compliance with other natural hazardous.
11. The height, Construction built up area of proposed construction shall be in accordance with the existing FSI/FAR norms of the urban local body & it should ensure the same along with survey number before approving layout plan & before according commencement certificate to proposed work.
12. 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.
13. **For firefighting:-**
  - a. PP should ensure distance of fire station approachable from the project site. All the fire fighting arrangement should be made available on the project site as per NBC .2016
  - b. The occupancy permit shall be issued by Municipal Corporation only after ensuring that all fire fighting measures are physically in place.
  - c. Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises
14. Provide solar lights for common amenities like Street lighting & Garden lighting.
15. Electrical charging points for E-Vehicles shall be provided to promote clean energy.
16. The proponent shall develop green belt in an area not less than 10% of plot area in addition to green belt in setback areas. The landscape planning should include plantation of native species. The existing trees counting for this purpose. Plantations to be ensured species (cut) to species (planted). 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

**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. 1 Diesel power generating set 250 kVA 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 proposed DG set. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- iv. 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.
- v. Sand, Murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vi. Wet jet shall be provided for grinding and stone cutting.
- vii. Unpaved surface and loose soil shall be adequately sprinkled with water to suppress dust.
- viii. 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.
- ix. 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.
- x. The gaseous emission from DG sets 250 kVA 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.
- xi. For indoor air quality, the ventilation provisions as per National Building Code of India.

## 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. Building 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 159 KLD out of which 98.725 KLD is fresh water requirement and 125.1 KLD will be the total recycled water generated, out of which 60 KLD recycled water will be used for flushing and 02 KLD water will be used for horticulture.
- 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 20% 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. Use of water saving devices/fixtures (Viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
- 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. The local bye-law construction on rain water harvesting should be followed. If local by-law provision is not available, adequate provisions for storage and recharge should be followed as per the Ministry of Urban Development Model Building bylaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
- xii. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meter of built up area and storage capacity of minimum one day of total fires water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
- xiii. For rainwater harvesting, 3 recharge pits will be constructed for harvesting rain water. The total recharge capacity of these pits about 257.03 m<sup>3</sup>/hr . Mesh will be provided at the roof so that leaves or any other solid waste/debris will be prevented from entering the pit.
- xiv. The RWH will be initially done only from the roof top. Runoff from green and other open areas will be done only after permission from CGWB.
- xv. All recharge should be limited to shallow aquifer.
- xvi. No ground water shall be used during construction phase of the project.
- xvii. 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.
- xviii. 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.
- xix. Sewage shall be treated in the MBBR based STP (Capacity – 150 KLD). The treated effluent from STP shall be recycled/re-used for flushing and gardening. As proposed, no treated water shall be disposed in to municipal drain.

- xx. The waste water generated from the project shall be treated in STP of 150 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.
- xxi. No sewage or untreated effluent water would be discharged through storm water drains.
- xxii. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problems from STP.
- xxiii. 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 sixmonthly 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 CFLs/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 798.44 Kg/day, this consist all types of wastes (as Organic waste 359.28 Kg/day and non- organic waste 439.12 Kg/day), E- waste 509.7 Kg/Annum , 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 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 210 Big Trees, 100 Ornamental Plants shall be planted in the area of 740.50 m<sup>2</sup> (10.00 % of total plot area) which shall be developed as greenbelt development :

S. No.	Species	Nos.
1.	Shade Loving (Heucshera)	70
2.	Golden Ficus	10
3.	Dwarf Champa	20
4.	Bottle Palm	10
5.	Areca Palm	20
6.	Ashoka	20
7.	Neem	10
8.	Ornamental Bamboo	50
9.	Raj Grass	150 sqm
10.	Seasonal Flower bearing Plants	100
Total No. of Trees	210 Big Trees, 100 Ornamental Plants	

- ii. No 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 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. Total proposed Parking's arrangement for 330 ECS (in which 156 ECS for Basement parking , 124 for ECS for Second Floor parking and 50 for open parking).
- iv. 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. 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.
- iii. 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.
- iv. 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.
- v. For Environment Management Plan PP has proposed Rs. 228.30 Lakhs as capital and Rs. 202.65 Lakhs as recurring cost for this project (Both as Constructional Phase and Operational Phase).
- vi. For this project PP has proposed Rs 10.0 Lakhs as Corporate Environment Responsibility (CER) for remaining project component.

<b>CER BUDGET</b>		
1.	Jal Tarang Interpretation Centre, Bhopal	Rs. 5 Lakh
2.	For habitat development and staff welfare at Van Vihar National Park, Bhopal	Rs. 5 Lakhs
	Total	Rs. 10 lakhs

#### **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'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter.

**Standard Conditions:**

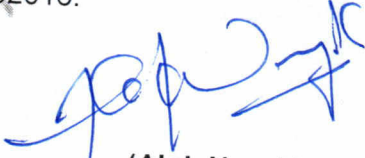
1. All activities / mitigative measures proposed by PP in Environmental Impact Assessment (if applicable) and approved by SEAC must be ensured.
2. All activities / mitigative measures proposed by PP in Environmental Management Plan and approved by SEAC must be ensured.
3. Project Proponent has to strictly 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, Gol, 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.

  
(Mujeebur Rehman Khan)  
Member Secretary

Copy, through email, for information and necessary action 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, 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