



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

To,

The Executive Engineer  
GWALIOR DEVELOPMENT AUTHORITY  
Vikash Bhavan, Ravi Nagar, 1 Gwalior (M. P.) -474002

**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/70875/2022 dated 04 May 2022. The particulars of the environmental clearance granted to the project are as below.

- |  |   |
|--|---|
| 1. EC Identification No.                   | EC22B039MP152702  |
| 2. File No.                                | 9004/2022   |
| 3. Project Type                            | New   |
| 4. Category                                | B1  |
| 5. Project/Activity including Schedule No. | 8(b) Townships and Area Development projects.   |
| 6. Name of Project                         | Proposed Township project "Maharajapura Residential Scheme Phase - 4 (Shatabdipuram Phase-4)" at Village- Mau and Vikrampur, Gird Tehsil Gwalior, Madhya Pradesh. |
| 7. Name of Company/Organization            | GWALIOR DEVELOPMENT AUTHORITY   |
| 8. Location of Project                     | Madhya Pradesh  |
| 9. TOR Date                                | 17 Mar 2022   |

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

Date: 14/06/2022

(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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PARIVESH

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and Virtuous Environmental Single-Window Hub)



**Ref: Proposal No. SIA/MP/MIS/70875/2022, Case No 9004/2022:** Prior Environment Clearance for Township Project "Maharajpura Residential Scheme Phase-4 (Shatabdipuram Phase-4)" in Village - Mau and Vikrampura, Tehsil - Grid, Dist. Gwalior, (MP) Total Project Influenced Area-19,25,380.68 sq.m. Area for Plotted Development- 6,70,131.40 sq.m., Total no. of Residential Units – 5057, Total Shops – 54 by Gwalior Development Authority, Executive Engineer, Vikash Bhavan, Gwalior, MP. Email: sudhakarkhedkar.construction@gmail.com Env. Consultant M/s. ENV Developmental Assistance Systems Pvt. Ltd, Lucknow (U.P.).

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. The proposed Township project "Maharajpura Residential Scheme Phase-4 (Shatabdipuram Phase-4)" at Village- Mau and Vikrampur, Gird Tehsil Gwalior, Madhya Pradesh.
- ii. The project site is under Gwalior Development Authority has got the responsibility for plotted development and developing infrastructure like drainage, sewage system, road, light and Park. The project will be fully operative in next 4-5 years. This is a part of project planned in 1995 and being executed now Development of proposed project will be done as per applicable norms/bye laws.
- iii. This project is offering the development of Residential, Commercial, Community Centre, Schools & Health Centre etc. Component wise Area Statement is given below:-

S.NO	Description	Area(m <sup>2</sup> )	Percentage
1.	Scheme Boundary Area	19,25,380.68 m <sup>2</sup>	
2.	<b>Deductible Area</b>	<b>5,83,411.64 m<sup>2</sup></b>	
	• Area under Mines	1,41,319.36 m <sup>2</sup>	
	• Area under Abadi	38,839.20 m <sup>2</sup>	
	• Area under Green Belt	10,241.08 m <sup>2</sup>	
	• Area under Forest	3,93,012.00 m <sup>2</sup>	
3.	Remaining Area (Plot Area- Deductible Area) (1925380.68-583411.64)	13,41,969.04 m <sup>2</sup>	100
4.	Area for Plotted Development	6,70,131.40 m <sup>2</sup>	49.94
5.	<b>Appurtenant Area/Support Work</b>	<b>671837.64m<sup>2</sup></b>	<b>50.06</b>
	• Commercial Area	18,417.16 m <sup>2</sup>	01.37
	• Road Area	4,91,828.04 m <sup>2</sup>	36.65
	• Open Area (Park Area)	1,41,609.52 m <sup>2</sup>	10.55
	• Parking Area	5,313.68 m <sup>2</sup>	00.40
	• Community Centre	3,247.92 m <sup>2</sup>	00.24
	• Health Centre	2,154.60 m <sup>2</sup>	00.16
	• School Area	5,708.04 m <sup>2</sup>	00.42
	• Convenient Shopping Area	3,558.68 m <sup>2</sup>	0.27
10	Total Green Area (Area under Green Belt+ Park Area+ Forest Area) 10,241.08 + 1,41,609.52 + 3,93,012.00 =5,44,862 .6 m <sup>2</sup>	5,44,862 .6 m <sup>2</sup>	
11	Total shops	54	
12	Total no. of residential Units	5057	



- iv. The total land area is 19,25,380.68 sq.m. (192.53 ha). The project comes under 8(b) category (B) of schedule of EIA Notification, 2006 because total land area is more than 50 ha.
- v. The ToR has been issued vide letter no. 3883/SEIAA/2022 dated 17 March 2022.
- vi. The case was discussed in SEAC meetings 572<sup>nd</sup> meeting dated 19.05.2022, and is recommended for grant of prior EC subject special conditions.
- vii. **Salient features** of the project:

Items	Details
Location	Village- Mau and Vikrampur, Gird Tehsil, Gwalior, MP
Geological Location	Latitude 26°15'25.04"N Longitude 78°11'11.15"E
Site Elevation (m)	200 m
Net Plot Area	6,70,131.40m <sup>2</sup>
Category	B, Type- 8(b), Township & Area Development Project
Land Use	The present land use is residential as per Master plan of Gwalior. The Project itself is proposed by Gwalior Development Authority. Land has been acquired by the GDA.
Type of facilities	<ol style="list-style-type: none"> <li>1. Residential Plots of different size</li> <li>2. Commercial Area</li> <li>3. Road Area</li> <li>4. Open Area (Park Area)</li> <li>5. Parking Area</li> <li>6. Community Centre</li> <li>7. Health Centre</li> <li>8. School Area</li> </ol>
Nearest Highway	Asian Highway Network 47--4.64 KM(W) National Highway 44-5.23 KM(N) National Highway 719-7.81 KM(NE)
Nearest railway station	Birla Nagar Junction 2.51 KM (S)
Nearest airport	Gwalior Airport- 2.5 Km (NE)
Protected areas as per Wildlife Protection Act, 1972 (Tiger reserve, Elephant reserve, Biospheres, National parks, Wildlife sanctuaries)	There is no Environment Sensitive area near the project site like Wildlife Sanctuary/National Park/Biosphere Reserve. The nearest water body is SwarnRekha River-2.26 KM (W) Morar River-3.00 KM (SE) at a distance of 3.0 km.
Archaeological important places	Gwalior Fort-3.56 KM (SW)
Seismic zone	Zone-II (Least Active)
Defence installations	Defence Research & Development Establishment (DRDE)= 5.10 KM (S)
Water requirement	The source of water supply during operation phase is municipal water. The total water requirement for the project is 3237 KLD. Out of the total fresh water requirement is 1846 KLD (Residential & Others)+29 KLD (Health Centre) and flushing water requirement is 619 KLD(Residential & Others)+13 KLD (Health Centre).
Waste water generation	The waste water of 1982 KLD will be generated, which will be treated in combined STP of capacity 145 MLD situated at 2.00 KM (Aerial distance) in South West direction near Jalapur Village. The 42 KLD of waste water (@80% of total Water i.e 33.6 KLD) will



Items	Details
	be generated from the Health Centre and will be discharged in the combined STP of Jalalpur (after Primary treatment)
Solid Waste Generation Disposal:	The solid waste generated from the project after full occupancy will be mainly domestic waste. Approx. 14180.3 Kg/day solid waste, 561.84 Kg/Day Horticulture waste and 10 Kg/Day of E waste will be generated. The solid waste so generated shall be first segregated as plastic, glass, paper and other waste separately. The recyclable inorganic waste will be sold to registered buyers. The bio-degradable wastes will be transferred into a designated collection point for treatment through organic waste converter.
Biomedical Waste Generation:	The biomedical waste generation for Hospital will be around 27.7kg/day and total solid waste generated from the health centre is 267.5 kg/day. This waste shall be disposed of through MPPCB approved recycler
Power Supply & Backup	Total power requirement of the Project is 26 MVA (Approximately) for residential unit only which will be supplied from Madhya Pradesh Transmission Company Limited. DG set proposed in Hospitals and Commercial space as source of backup power. Suitable energy optimization will be adopted during the calculation of energy load of the proposed project. Light Emitting Diode (LEDs) will be used in place of incandescent and halogen lamps in all common areas. <ul style="list-style-type: none"> <li>• Maximum utilization of natural light.</li> <li>• LEDs in the common areas</li> <li>• Use of solar lights partly in open areas and landscaped area.</li> </ul>
Rain Water Harvesting:	The rain water will be harvested in the mined out area present at the project site. Area under mines will act as recharge pits and 6,51,303.0 m <sup>3</sup> of rainwater will be harvested in the mined out area.
Fire Fighting Services	The provisions will be made like Automatic Fire Alarm and detection system, Manual fire Alarm, Sprinkler System etc. As per the National Building Code (NBC-2016, part IV), the basic minimum requirement for Fire Fighting Installation shall be provided for the proposed Project.
Parking	Individual parking will be provided in each plot. Parking in School, Commercial area, health centre will be provided as per norms
EMP Cost	Environment Management Plan PP has proposed Rs.130.0 Lakhs as capital and Rs.30.0 Lakhs as recurring cost for this project.
CER	PP has proposed Rs. 270.0 Lakhs (@90.0 Lakh/year) as Corporate Environment Responsibility (CER) in different activities including adoption of an animal from Van Vihar National Park, Bhopal.
Green belt development	Total 11,750 trees shall be planted in the area of 9, 39,890.20 sq.m. which is developed as greenbelt development by CCF, Social Forestry or by DFO, Gwalior. It is proposed to develop a 30 m wide green belt surrounded by gated fence encompassing the mines and additional landscaping.

- viii. This project is peculiar in its location, as Gwalior Airport is situated at 2 km away in NE direction and Gwalior Fort is situated at 3 Km away in South Direction. Being a plotted development and as no high rise building is proposed in Shatabdipuram-phase-4, the location of project will not affect Airport and Fort. As the project location does not intersect the runway approach funnel, no AAI NOC regarding building height is required.
- ix. Another Important feature of this project is presence of abandoned mines within the scheme boundary area. PP has proposed to develop a 30 m wide green



belt surrounded by gated fence encompassing the mines and additional landscaping. The abandoned mine pit will act as water harvesting pit/ water retention structure and surface drainage will be planned accordingly.

- x. To avoid health hazard from mined out pits, PP has proposed double metallic barricading all around the pits with 30 meters green belt. Committee suggested that proper precaution and structures shall be made for safety of humans and animals from these pits which have depth of approx. 30 meters.

Based on the information submitted at Para i to X above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 728<sup>th</sup> meeting held on 27.05.2022 and decided to accept the recommendations of 572<sup>nd</sup> SEAC meeting held on dated 19.05.2022.

Hence, Prior Environmental Clearance is accorded under the provisions of EIA Notification dtd. 14<sup>th</sup> September 2006 & its amendments to the proposed "Township Project "Maharajpura Residential Scheme Phase-4 (Shatabdipuram Phase-4)" in Village - Mau and Vikrampura, Tehsil - Grid, Dist. Gwalior, (MP) Total Project Influenced Area-19,25,380.68 sq.m. Area for Plotted Development- 6,70,131.40 sq.m., Total no. of Residential Units – 5057, Total Shops – 54 by Gwalior Development Authority, Executive Engineer, Vikash Bhavan, Gwalior, MP 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. कार्य स्थल पर मौजूद खनिज गड्ढों को लेकर चर्चा की गई। इनके कारण कोई दुर्घटना घटित न हो इस पर विचार किया गया। परियोजना प्रस्तावक के प्रस्ताव एवं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति के अनुशंसानुसार परियोजना प्रस्तावक द्वारा गड्ढों के चारों ओर दो स्तरीय स्टील की बैरिकेड लगाई जावेगी उस के चारों ओर वृक्षारोपण कर ग्रीन बेल्ट बना कर सुरक्षित किया जावेगा। इस पर प्राधिकरण द्वारा भी परियोजना प्रस्तावक को योजना के संचालन के दौरान समुचित सुरक्षा के उपायों एवं प्रावधानों का परिपालन किए जाने की शर्त अधिरोपित की जाती है।
2. यह प्रस्तावित स्थल एयर पोर्ट से 2 किलोमीटर दूर पर स्थापित है इस कारण इस क्षेत्र में कोई उच्च स्तरीय भवन का निर्माण एवं बहुत बड़ा कोई स्टील स्ट्रक्चर का निर्माण न किया जावे ताकि एयर पोर्ट की रैडार की कार्य प्रणाली में व्यवधान पैदा हो।
3. सिविल निर्माण में रेड ब्रिक का उपयोग न किया जावे, साथ ही सीमेंट के साथ क्युरिंग कंपाउंड का प्रयोग कर पानी की बचत की जावे।
4. The fresh water supply arrangement should be met through Municipal Corporation Gwalior and there should no extraction of ground water.
5. PP should ensure linkage with municipal sewer line for disposal of extra treated waste water.
6. 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
7. In the dedicated forest area (approx. 36.00 ha) walking pathway and kids play area shall be developed as Eco park with common facilities like toilets etc.
8. PP should ensure road width, front MOS and side / rear as per MPBVR 2012.



9. Individual parking for individual plots should be provided. Separate parking provision should be made for School, Commercial area & health centre.
10. 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.
11. **For firefighting:-**
  - a. PP should ensure distance of fire station approachable from the project site. All the required 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
12. Provide solar lights for common amenities like Street lighting & Garden lighting.
13. Electrical charging points for E-Vehicles shall be provided to promote clean energy.
14. 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. DG set proposed in Hospitals and Commercial space 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. 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 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. Plotting 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 3237 KLD out of which 1846 KLD is fresh water requirement. All the waste water generated within the project will be treated in combined STP of capacity 145 MLD situated at 2.00 KM (Aerial distance) in South West direction near Jalapur Village.
- 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. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- viii. 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.
- ix. All recharge should be limited to shallow aquifer.
- x. No ground water shall be used during construction phase of the project.
- xi. 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.
- xii. The quality of fresh water usage 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.
- xiii. Sewage shall be treated in the combined STP (Capacity - 145 MLD) operated and maintained by PHED Project Division Gwalior.
- xiv. The waste water generated from the project shall be treated in combined STP of 145MLD capacity and thereafter discharged. No water body or drainage channels are getting affected in the study area because of this project.
- xv. No sewage or untreated effluent water would be discharged through storm water drains.

#### **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. 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.

#### **VI Waste Management**

- i. Total waste 1.418 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 (1.418 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 25<sup>th</sup> 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 11,750 trees shall be planted in the area of 9, 39,890.20 m<sup>2</sup> which is developed as greenbelt development by CCF, Social Forestry or by DFO, Gwalior with following species.

S. No.	Common Name	Numbers
1.	Kiegellia Pinnata	250
2	Putranjiva	800
3	SafedSirish	750
4	Chitwan	550
6	Kachnar	750
7	Molshree	650
8	Khirmi	600
9	Ficus	250
10	Gulmohar	850
11	Neem	900
12	Karanj	550
13	Ashok Pendula	750
14	Shisham	850
15	Pipal	500
16	Awala	850
17	Areca Palm	550
18	St. Marks yelloweyed grass	750
19	Amaltas	600

- ii. PP shall explore the possibility of using mine water for green belt irrigation by developing future utility plan to reduce load on fresh water.
- iii. In the dedicated forest area (approx. 36.00 ha) walking pathway and kids play area shall be developed as Eco park with common facilities like toilets etc.
- iv. Not tree can be felled/transplant.



- v. 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.
- vi. 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 vegetation 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 area 5,313.68 m<sup>2</sup> is specified for parking of vehicles.
- 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.
- vii. To avoid health hazard form mined out pits, PP has proposed double metallic barricading all around the pits with 30 meters green belt. Committee suggested that propoer precaution and structures shall be made for safety of humans and animals from these pits which have depth of approx. 30 meters.

#### **X EMP & Corporation Environment Responsibility**

- i. For Environment Management Plan PP has proposed Rs.130.0 Lakhs as capital and Rs.30.0 Lakhs as recurring cost for this project.
- ii. For this project PP has proposed Rs. 270.0 Lakhs (@90.0 Lakh/year) as Corporate Environment Responsibility (CER) for remaining project component which is also include for adoption of an animal from Van Vihar National Park, Bhopal.



S.no.	Activities	2022	2023	2024
1.	Provide Sewer Lines in (Mau & Vikrampur Village)	40 lacs	40 lacs	40 lacs
2.	Providing solar cookers & LPG gas cylinders under "Ujjwala Yojna" to Villagers of Chandupura	20 lacs	20 lacs	20 lacs
3.	Water supply facilities in Jamhar Village	10 lacs	20 lacs	20 lacs
4.	Solar panels in schools of near -by villages.	20 lacs	10 lacs	10 lacs
<b>Total</b>		<b>90 lacs</b>	<b>90 lacs</b>	<b>90 lacs</b>

- 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 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. 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.
- iv. 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).
- 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, GoI, Bhopal and MPPCB shall monitor compliance of the stipulated conditions. A complete set of documents including Environment Impact Assessment Report, Environmental Management Plan and other documents information should be given to Regional Office of the MoEF, GoI at Bhopal and MPPCB.
9. The Project Proponent shall inform to the Regional Office, MoEF, GoI, Bhopal and MP PCB regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
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 Environmental (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.

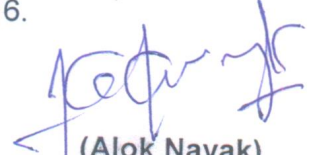
  
(Shriman Shukla)  
Member Secretary

Copy, 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- Gwalior -M.P.
- (5). The Commissioner, Municipal Corporation, Gwalior, MP
- (6). The Jt. Director, Town & Country Planning, GDA Building Ravi Nagar, Gwalior (M.P.)
- (7). Director, I.A. Division, Monitoring Cell, MoEF, GoI, 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