सत्यमेव जयते

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY PUNJAB
Ministry of Environment, Forest & Climate Change, Government of India
O/o Directorate of Environment & Climate Change
MGSIPA Complex, Sector 26,
Chandigarh-160019
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No. DECC/SEIAA/2020/ 1751 **REGISTERED** **Date:** 29/07/2020

To

Sh. Parshotam Singh Grewal, Director
M/s Orbit Apartment Construction Pvt. Ltd.
Chandigarh-Ambala Highway,
VIP Road, Zirakpur, SAS Nagar,
Punjab-140603
Contact No. 01762-519205

Subject: **Environmental Clearance under EIA notification dated 14.09.2006 for the establishment of Commercial project "Orbit Signature Walk" located at VIP Road, Zirakpur, Tehsil Derabassi, SAS Nagar (Punjab) by M/s Orbit Apartment Construction Pvt. Ltd. (Proposal No. SIA/PB/MIS/128629/2019).**

This is in reference to your online Proposal No. SIA/PB/MIS/128629/2019 for obtaining Environmental Clearance under the EIA notification dated 14.09.2006 for establishment of a Commercial Project "Orbit Signature Walk" located at VIP Road, Zirakpur, Tehsil Derabassi, SAS Nagar (Punjab). The proposal has been appraised as per procedure prescribed under the provisions of EIA Notification dated 14.09.2006 on the basis of the mandatory documents enclosed with the application viz., Form-1, 1-A, EMP and the additional clarifications furnished in response to the observations of the SEAC. The salient features of the project are as under: -

Sr. No.	Item	Details
1.	Name & Location of the project	Commercial project "Orbit Signature Walk" located at VIP Road, Zirakpur, SAS Nagar (Punjab)
2.	Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006	8(a) 'Building & Construction Project' Built-up area > 20000 m^2 and <150000 m^2

<table>
<tr><td>3.</td><td>Latitude & Longitude</td><td>
<table>
<tr><th>S. No.</th><th>Corner</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>Corner A</td><td>30°38'23.42"N</td><td>76°49'19.22"E</td></tr>
<tr><td>2</td><td>Corner B</td><td>30°38'22.74"N</td><td>76°49'19.29"E</td></tr>
<tr><td>3</td><td>Corner C</td><td>30°38'20.88"N</td><td>76°49'18.11"E</td></tr>
<tr><td>4</td><td>Corner D</td><td>30°38'21.06"N</td><td>76°49'17.52"E</td></tr>
<tr><td>5</td><td>Corner E</td><td>30°38'14.64"N</td><td>76°49'14.48"E</td></tr>
<tr><td>6</td><td>Corner F</td><td>30°38'15.58"N</td><td>76°49'12.32"E</td></tr>
<tr><td>7</td><td>Corner G</td><td>30°38'20.50"N</td><td>76°49'14.87"E</td></tr>
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</td></tr>
<tr><td>4.</td><td>Classification/Land use pattern as per Master Plan</td><td>The Project falls under Existing built-up area as per Master Plan of Zirakpur.</td></tr>
<tr><td>5.</td><td>Cost of the project</td><td>Rs. 55.59 Crores</td></tr>
<tr><td>6.</td><td>Environmental Clearance. Fee details</td><td>Rs 94770/- vide NEFT No. S1755369 dated 27.11.2019</td></tr>
<tr><td>7.</td><td>Total Plot Area, Built-up Area, and Green area</td><td>
<table>
<tr><th>Sr.No.</th><th>Description</th><th>Area</th></tr>
<tr><td>1.</td><td>Plot Area (Total scheme area)</td><td>15,381.27 sqm (i.e. 3.801 acres)</td></tr>
<tr><td>2.</td><td>Built-up area</td><td>47,380.76 m^2</td></tr>
<tr><td>3.</td><td>Green area</td><td>714.49 m^2</td></tr>
</table>
</td></tr>
<tr><td>8.</td><td>Population (when fully operational)</td><td>7,230 Persons.</td></tr>
<tr><td>9.</td><td>Water Requirements & source in Construction Phase</td><td>1. 50 KLD (Max) treated wastewater will be used for construction purposes depending upon the requirement and the same will be met from nearby STPs by using private water tankers.
2. Domestic demand for 50 workers during peak period @ 3 KLD (@ 45 lpcd) shall be met from the groundwater.</td></tr>
<tr><td>10.</td><td>Treatment & Disposal arrangements of Wastewater in construction phase in Construction Phase

Handling of waste material during the construction</td><td>Wastewater generated (2.4 KLD) will be treated in the septic tank and treated wastewater will be used for plantation purposes.

Waste Material handling will be carried out as per Construction and Demolition (C&D) Waste Management Rules, 2016. The site contractor will be responsible for the collection & storage of construction and demolition waste generated on the site.</td></tr>
</table>

<table>
<tr><td></td><td>phase</td><td></td></tr>
<tr><td>11.</td><td colspan="2">Breakup of Water Requirements & source in Operation Phase (Summer, Rainy, Winter)
<table>
<tr><th>S.No.</th><th>Season</th><th>Total water requirement</th><th>Flushing water Requirement</th><th>Freshwater requirement</th></tr>
<tr><td>1.</td><td>Summer</td><td>325 KLD</td><td>116</td><td>209</td></tr>
<tr><td>2.</td><td>Winter</td><td>325 KLD</td><td>116</td><td>209</td></tr>
<tr><td>3.</td><td>Rainy</td><td>325 KLD</td><td>116</td><td>209</td></tr>
</table></td></tr>
<tr><td>12.</td><td>Disposal Arrangement of Wastewater in Operation Phase</td><td>Total wastewater generation will be 260 KLD out of which black water will be 182 KLD and grey water will be 78 KLD and the same will be treated in STP of capacity 200 KLD based on MBBR technology and 78 KLD in WWTP of capacity 100 KLD respectively to be installed within the project premises. After evaporation & other losses, 255 KLD treated wastewater available at the STP &WWP. The details of the disposal of treated wastewater will be as under: -
<table>
<tr><th>Season</th><th>Flushing (KLD)</th><th>Green Area (KLD)</th><th>Sewer (KLD)</th></tr>
<tr><td>Summer</td><td>116</td><td>4.0</td><td>135</td></tr>
<tr><td>Winter</td><td>116</td><td>1.5</td><td>137.5</td></tr>
<tr><td>Monsoon</td><td>116</td><td>0.5</td><td>138.5</td></tr>
</table></td></tr>
<tr><td>13.</td><td>Rainwater recharging detail</td><td>218 m^3/hr of rainwater will be collected in 5 no. of Rainwater recharging pits with dual-bore.</td></tr>
<tr><td>14.</td><td>Solid waste generation and its disposal</td><td>a) 1,446 kg/day
b) Solid waste will be appropriately segregated (at source by providing bins) into recyclable, Bio- degradable Components and non-biodegradable.
c) 650 kg/day of Bio-degradable Solid Waste will be Converted into Manure using Mechanical Composters of size 500 & 150 kg and the same will be used for horticulture proposes within the project site.
d) 766 kg/day of Non-biodegradable or dry waste will be handed over to authorized waste pickers as per Solid Waste Management Rules, 2016.
e) 30 kg/day of Domestic hazardous waste such as Discarded paint drums, pesticide cans, CFL bulbs, tube lights, expired medicines, broken mercury thermometers, used batteries and contaminated gauge, etc. will be disposed off to authorized vendors as per Solid Waste Management Rules, 2016.</td></tr>
</table>

15.	Green Belt Development Plan including no. of trees to be planted & its species.	Total 200 no. of trees will be planted against the requirement of 192 no i.e. (1 tree @ 80 sqm of land area of 15,381.27 sqm).
16.	Hazardous Waste &E-Waste	Used oil from DG sets will be sold to registered recyclers and E-waste will be is disposed of as per the E-waste (Management) Amendment Rules 2018.
17.	Energy Requirements & Saving	a) 3,434 KW from PSPCL. b) 6 number of DG sets of capacity 750 kVA each equipped with canopy. Energy Saving measures: 120 KW energy will be generated by installation of Solar panels on 30% rooftop area i.e. 4,763.69 m^2 with a cost of Rs. 96 Lacs.
18.	Other Permissions	• MC, Zirakpur vide letter no. 3063 dated 25.11.2019 granted NOC for joining the project sewer to the MC sewer for discharging the treated wastewater with certain conditions. • MC, Zirakpur vide letter no. 3065 dated 25.11.2019 issued certificate to the effect that necessary arrangements for the lifting of waste material and garbage will be made for which expenditure shall be paid by the project proponent. • Competent Authority cum Dy. Director, Local Govt. Patiala vide letter no. 20134 dated 30.07.2019 has granted CLU for the Commercial Purpose to the promoter company.

The case was lastly considered by the SEAC in its 188th meeting held on 04.03.2020 wherein, the Committee observed that the project proponent has provided adequate and satisfactory clarifications to the observations raised by it. Therefore, the Committee awarded 'Silver Grading' to the project proposal and decided to forward the case to the SEIAA with the recommendation to grant environmental clearance to the project proponent under EIA notification dated 14.09.2006 for establishment of the project subject to certain conditions in addition to the proposed measures.

Thereafter, the case was considered by the SEIAA in its 164th meeting held on 12.06.2020. The SEIAA observed that the case stands recommended by SEAC and the Committee awarded 'Silver Grading' to the project proposal. The Authority

looked into all the aspects of the project proposal in detail and was satisfied with the same.

Therefore, the Authority decided to accept the recommendations of SEAC and grant Environmental Clearance for the establishment of the commercial project namely "Orbit Signature Walk" having a built-up area of 47380.76 sqm in a total land area of 15381.27 sqm located at VIP Road, Zirakpur, Tehsil Derabassi, Distt. SAS Nagar as per the details mentioned in the Form 1, 1A, EMP & subsequent presentation /clarifications made by the project proponent and his consultant, with proposed measures and conditions as recommended by SEAC & certain amendments therein & agreed by the Project proponent.

Accordingly, SEIAA, Punjab hereby accords necessary Environmental Clearance for the above project under the provisions of EIA Notification dated 14.09.2006 and its subsequent amendments, subject to proposed measures & strict compliance of terms and conditions as follows: -

I. Statutory compliance:

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

ii) The approval of the Competent Authority shall be obtained for the structural safety of buildings due to earthquakes, adequacy of firefighting equipment, etc. as per National Building Code including protection measures from lightning, etc.

iii) The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.

iv) The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.

v) 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 Punjab Pollution Control Board.

vi) The project proponent shall obtain the necessary permission for drawl of groundwater/ surface water required for the project from the competent authority.

vii) 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.

viii) 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.

ix) The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, Construction & Demolition Waste Rules,2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.

x) The project proponent shall follow the ECBC/ECBC-R prescribed by the Bureau of Energy Efficiency, Ministry of Power strictly.

xi) The project site shall conform to the suitability as prescribed under the provisions laid down under the master plan of respective city/ town. For that, the project proponent shall either submit the NOC/ land use conformity certificate from Deptt of Town and Country Planning or other concerned Authority under whose jurisdiction, the site falls.

xii) Besides above, the project proponent shall also comply with siting criteria/guidelines, standard operating practices, code of practice, and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such type of projects.

xiii) The project proponent shall get the layout plans approved from the Competent Authority for the activities/establishments to be set up at the project site in consonance with the project proposal for which this environment clearance is applied.

II. Air quality monitoring and preservation

i) Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.

ii) A management plan shall be drawn up and implemented to contain the current exceedance in the ambient air quality at the site.

iii) The project proponent shall install a system to carry out Ambient Air Quality monitoring for common /criterion parameters relevant-to the main pollutants released (e.g. PM10 and PM2.5) covering upwind and downwind directions during the construction period.

iv) Diesel power generating sets proposed as a source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of the stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. The use of low sulphur diesel should be ensured. The

location of the DG sets may be decided in consultation with Punjab 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 (at least 3m height or 1/3rd of the building height and maximum upto 10m). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram, and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.

vi) No Excavation of soil shall be carried out without adequate dust mitigation measures in place.

vii) No loose soil or sand or construction & demolition waste or any other construction material that causes dust shall be left uncovered.

viii) No uncovered vehicles carrying construction material and waste shall be permitted

ix) All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.

x) Grinding and Cutting of building material in an open area shall be prohibited. Wet jet shall be provided for grinding and stone cutting.

xi) Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.

xii) All construction and demolition debris shall be stored at the site within the earmarked area and roadside storage of construction material and waste shall be prohibited. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.

xiii) The diesel generator sets to be used during the construction phase shall be low sulphur diesel type and shall conform to the standards as enumerated in the Environmental (Protection) Rules, 1986 as prescribed for air and noise emission.

xiv) The gaseous emissions from the DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate 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.

xv) For indoor air quality, the ventilation provisions as per the National Building Code of India shall be followed.

xvi) Roads leading to or at the construction site must be paved and blacktopped (i.e. metallic road)

xvii) Dust Mitigation measures shall be displayed prominently at the construction site for easy public viewing.

xviii) Construction and Demolition Waste Processing and Disposal site shall be identified and required dust mitigation measures be notified at the site.

III. Water quality monitoring and preservation

i) The natural drain system should be maintained for ensuring the unrestricted flow of water.

ii) 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 rainwater.

iii) Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.

iv) The total domestic water requirement for the project will be 325 KLD, out of which 209 KLD shall be met through its tube well and remaining through the recycling of treated wastewater. Total freshwater use shall not exceed the proposed requirement as provided in the project details.

v) a)The total wastewater generation from the project will be 260 KLD out of which black water will be 182 KLD and greywater will be 78 KLD, which will be treated in proposed STP of capacity 200 KLD based on MBBR technology and WWTP of capacity 100 KLD respectively, to be installed within the project premises. As proposed, reuse of treated wastewater and discharge of surplus treated wastewater of 255 KLD available at the outlet of STP & WWTP after evaporation and other losses, shall be as under: -

Sr. No.	Season	For Flushing purposes (KLD)	Green Area (KLD)	Into Sewer* (KLD)
1.	Summer	116	4.0	135
2.	Winter	116	1.5	137.5
3.	Rainy	116	0.5	138.5

* Note: Surplus treated wastewater will be discharged into MC sewer as and when sewer connection is available with the project.

b) A storage tank of adequate capacity shall be provided for the storage of treated wastewater and all efforts shall be made to supply the same for construction purposes.

c) During the construction phase, the project proponent shall ensure that the wastewater being generated from the labour quarters/toilets shall be treated and disposed of in an environment-friendly manner. The project proponent shall also exercise the option of modular bio-toilets or will provide proper and adequately designed septic tanks for the treatment of

such wastewater and treated effluents shall be utilized for green area/plantation

vi) The project proponent shall ensure a safe drinking water supply to the habitants. Adequate treatment facility for drinking water shall be provided if required.

vii) The quantity of freshwater 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.

viii) 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 groundwater and surface water sources, ensuring that there is no impact on other users.

ix) At least 20% of the open spaces as required by the local building bye-Jaws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape, etc. would be considered as pervious surface.

x) Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing, etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning, etc. shall be done.

xi) The respective project proponent shall discourage the installation of R.O. plants in their projects in order to save the wastage in the form of RO reject. However, in case the requirement of installing RO plant is utmost necessary then the rejected stream from the RO shall be separated and shall be utilized by storing the same within the particular component i.e. (Tower/Mall) or in a common place in the project premises.

xii) The project proponent shall also adopt the new/innovating technologies like less water discharging taps (faucet with aerators)/urinals with electronic sensor system /water less urinals / twin flush cisterns/ sensor based alarming system for overhead water storage tanks and make it a part of the environmental management plans / building plans so as to reduce the water consumption/groundwater abstraction in their Building Construction & Industrial projects.

xiii) The project proponent will provide plumbing system for reuse of treated wastewater for flushing/ HVAC/ other purposes etc. and colour coding of different pipelines carrying water/wastewater from different sources / treated wastewater as follows:

Sr. No	Nature of the Stream	Colour code
a)	Fresh water	Blue

b)	Untreated wastewater from Toilets/ urinal & from Kitchen	Black
c)	Untreated wastewater from Bathing/shower area, hand washing (Washbasin / sinks) and from Cloth Washing	Grey
d)	Reject water streams from RO plants & AC condensate (this is to be implemented wherever centralized AC system and common RO has been proposed in the Project). Further, in case of individual houses/establishment this proposal may also be implemented wherever possible.	White
e)	Treated wastewater (for reuse only for plantation purposes) from the STP treating black water	Green
f)	Treated wastewater (for reuse for flushing purposes or any other activity except plantation) from the STP treating grey water	Green with strips
g)	Storm water	Orange

xiv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.

xv) A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built-up area and storage capacity of minimum one day of total freshwater requirement shall be provided. Thus, 05 nos of rainwater harvesting recharge pits (with dual-bore) shall be provided for groundwater recharging. In areas where groundwater recharge is not feasible, the rainwater should be harvested and stored for reuse. The groundwater shall not be withdrawn without approval from the Competent Authority.

xvi) All recharge should be limited to shallow aquifer.

xvii) No groundwater shall be used during the construction phase of the project. Only treated sewage/wastewater shall be used. A proper record in this regard should be maintained and available at the site.

xviii) Any groundwater 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 groundwater abstraction or dewatering.

xix) The quantity of freshwater 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.

xx) Sewage shall be treated in the STP with tertiary treatment. STP shall be installed in phased manner viz a viz in module system designed in such a way so as to efficiently treat the wastewater with increase in its quantity

due to rise in occupancy. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water, and gardening. No treated water shall be disposed of into municipal storm water drain.

xxi) No sewage or untreated effluent water would be discharged through storm water drains. Onsite sewage treatment of capacity of treating 100% wastewater to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated wastewater shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.

xxii) Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.

xxiii) Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed of as per the Ministry of Urban Development, Central 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 monitored 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 out as per the prescribed guidelines and report in this regard shall be submitted to Regional Office 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 provided as mitigation measures for noise impact due to ground sources.

V. Energy Conservation measures

i) Compliance with the Punjab Energy Conservation Building Code (PECBC) of Energy Efficiency shall be ensured.

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 LEDs for 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 any other Renewable Energy equipment shall be installed to meet electricity generation equivalent to at least 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.

vi) Solar power by utilizing at least 30% of the rooftop area shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power.

VI. Waste Management

i) A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.

ii) Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed of taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.

iii) 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.

iv) Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed for treatment and disposal of the waste.

v) All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.

vi) Any hazardous waste generated during construction phase, shall be disposed of 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 material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.

viii) Fly ash should be used as building material in the construction as per the provision 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 in such a way 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) No tree shall be felled/transplanted unless extreme exigencies demand. Where absolutely 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).

ii) At least single line plantation all around the boundary of the project as proposed shall be provided. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous species/variety. A minimum of one tree for every 80 sqm of total project land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include 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. The plantation should be provided as per SEIAA guidelines.

iii) 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.

iv) Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

v) The project proponent shall not use any chemical fertilizer /pesticides /insecticides and shall use only Herbal pesticides/insecticides and organic manure in the green area.

vi) The green belt along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use.

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 networks. 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 and be operated only during non-peak hours.

iii) A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all 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 plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ 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.

iv) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.

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 shall be strictly followed.

iii) Emergency preparedness plan based on the Hazard identification and Risk 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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

iv) Occupational health surveillance of the workers shall be done on a regular basis.

v) A First Aid Room shall be provided in the project both during construction and operations of the project.

X. Corporate 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.The project proponent shall adhere to the commitments made in the proposal for CER activities for spending at least a minimum amount of Rs. 56,00,000/- for providing wastewater treatment of village pond (to be provided by the Department of Rural Developments and Panchayats, Govt. of Punjab), as per the design evolved by Punjab Pollution Control Board.

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 balances 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 to all 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 report.

iii) A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.

iv) Action plan for implementing EMP and environmental conditions along with the 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. The project proponent shall spend a minimum amount of Rs 215.0 Lacs towards the capital cost and Rs 12.0 Lacs/annum towards recurring cost in the construction phase of the project including the environmental monitoring cost and shall spend a minimum amount of Rs 19.5 Lacs/annum towards recurring cost in operation phase of the project including the environmental monitoring cost. The entire cost of the environmental management plan will continue to be borne by the project

proponent until the responsibility of the environmental management plan is transferred to the occupier/resident's society under proper MOU under intimation to SEIAA, Punjab. Year-wise progress of implementation of the action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

XI. Validity

i) This environmental clearance will be valid for a period of seven years from the date of its issue or till the completion of the project, whichever is earlier.

XII. Miscellaneous

i) The project proponent before allowing any occupancy shall obtain completion and occupancy certificate from the Competent Authority and submit a copy of the same to SEIAA, Punjab.

ii) The project proponent shall comply with the conditions of CLU granted vide letter no. CLU/DDLG/PTL/2019/20134 dated 30.07.2019.

iii) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC /SEIAA website where it is displayed.

iv) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

v) The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.

vi) The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at Environment Clearance portal.

vii) The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

viii) The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production /operation by the project.

ix) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.

x) 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 Expert Appraisal Committee and SEIAA.

xi) No further expansion or modifications in the plant/project shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).

xii) 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.

xiii) The SEIAA/Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

xiv) The SEIAA/ Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time-bound manner shall implement these conditions.

xv) The Regional Office of this Ministry and Punjab Pollution Control Board shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office and PPCB by furnishing the requisite data/ information/monitoring reports.

xvi) 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.

xvii) Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Additional Conditions: -

i) The project proponent shall plant 200 no. of trees of native varieties within the projects as per the guidelines of the MoEF/SEIAA.

ii) The project proponent shall utilize only one borewell having motor power as mentioned in the CGWA application to abstract the groundwater. Other borewell, if any, will be sealed/buried and compliance of the same be submitted to the SEIAA along with six-monthly report.

Member Secretary

164.03

Endst. No._____ Registered Date_____

A copy of the above is forwarded to the following for information & further necessary action please.

1. The Secretary to Govt. of India, Ministry of Environment and Forest, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-office Complex, East Arjun Nagar, New Delhi.
3. The Chairman, Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala.
4. The Chairman, Punjab State Power Corporation Ltd, the Mall, Patiala.
5. The Deputy Commissioner, SAS Nagar.
6. The Deputy Director General (C), Ministry of Environment, Forests & Climate Change, Northern Regional Office, Bays No. 24-25, Sector- 31-A, Chandigarh.
7. The Chief Town Planner, Department of Town & Country Planning, 6th Floor, PUDA Bhawan, Phase-8, Mohali.
8. The Joint Director, Ministry of Environment and Forest, Northern Regional Office, Bays No.24-25, Sector–31-A, Chandigarh. The detail of the authorized Officer of the project proponent is as under:

   a) Name of the applicant : Sh. Parshotam Singh Grewal (Director)
   b) Phone Number : 01762-519205
   c) Email Id : orbitwalk@gmail.com

9. Monitoring Cell, Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhavan, Jorbagh Road, New Delhi - 110003.

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Member Secretary