# STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY HARYANA Bay No. 55-58, Prayatan Bhawan, Sector-2, PANCHKULA

No. SEIAA/HR/2016/ 796

Dated: 16.09.2016

To

M/s Orris Infrastructure Pvt. Ltd., J-10/5, DLF Phase-II, MG Road Gurgaon. Haryana-122002

Subject: Environmental Clearance for Village-Hayatpur 80 commercial complex Badha, Sector-89 & "Orris 90, Gurgaon, Market

Dear Sir,

Haryana.

to the project 21.08.2015, in its meetings held on 06.04.2016 and 08.07.2016 awarded "Gold" grading Expert Appraisal Committee (SEAC) constituted by MOEF, GOI vide their Notification Plan and additional clarifications furnished in response to the observations of the State mandatory documents enclosed with the application viz., Form-1, Form1-A, Conceptual procedure in the light of provisions under the EIA Notification, 2006 on the basis of the under the EIA Notification, 2006. The proposal has been appraised as per prescribed letter dated 02.06.2016 seeking prior Environmental Clearance for the above project 25.01.2016 addressed to M.S. SEIAA, Haryana received on 02.02.2016 and subsequent This letter is in reference to your application no. MKC/HPC/589

406 kg/day. The total parking spaces proposed are 541 ECS installation of OWC (organic waste converter). The Organic Waste Converter of capacity Proponent proposed to construct 04 rain water harvesting pits. The solid waste generation power requirement shall be 3778.50 KW which will be supplied by DHBVN. The Project shall be 146 KLD, which will be treated in the STP of 190 KLD capacity. The total maximum height of the building shall be 56.6 meters. The total water requirement shall Proponent has be 254 KLD. The fresh water requirement shall be 123 KLD. The waste water generation shall be 45452.978 sqm. The proposed project shall comprise of 4 Blocks, 2 Basements + Gurgaon, Haryana on a plot area of 15620.84 sqm (3.86 acre). The total built up area commercial complex "Orris Market City" at Village-Hayatpur & Badha, Sector-89 13 580 kg/day. The bio-degradable waste will be treated in the project area by floors. proposed to develop green belt on 25.21% of project area. IS The proposed project shall have service apartments and shops. inter-alia, noted that the project involves the construction The Project of

furnished in response to its observations, have recommended the grant of the relevant documents The State Expert Appraisal Committee, Haryana after due consideration of submitted by the project proponent and additional clarification environmental

Notification 2006 subject to the strict compliance with the specific and general conditions meeting held on 26.08.2016 decided to agree with the recommendations conditions. Accordingly, the State Environment Impact Assessment Authority in its clearance mentioned below:accord necessary for the project mentioned above, subject to compliance with the stipulated environmental clearance for the project under Category of 8(a) of EIA

## SPECIFIC CONDITIONS:

### Construction Phase:-

- "Consent for Establish" shall be obtained from Haryana State Pollution Haryana before the start of any construction work at site. Board under Air and Water Act and a copy shall be submitted to the SEIAA Control
- 2 construction and operational phase of the project. A first aid room as proposed in the project report shall be provided both during
- w by the laboures is strictly prohibited. The safe disposal of solid wastes/ waste water provide mobile STP for treatment of waste water during the construction phase generated during the construction phase should be ensured. Efforts shall be made workers at the site. Adequate drinking water and sanitary facilities shall be provided Provision should be made for mobile toilets. Open defecation for construction
- 4 horticulture/landscape development within the project site All the topsoil excavated during construction activities shall be stored for use
- S The general safety and health aspects of people, only in approved sites with the approval construction of competent authority. project proponent shall ensure that the building material required phase is properly stored within the project area and disposal of waste and should be should not create disposed of after taking necessary any adverse effect on the precautions neighboring during
- 0 Construction spoils, including bituminous material and other hazardous materials, Pollution Control Board. any hazardous waste generated during construction phase, should be disposed off as material must be secured so that they should not leach into the must not be allowed to contaminate watercourses and the dump sites and norms with necessary approval of the ground water and Haryana for such State
- $\Box$ prescribed for air and noise emission standards The diesel generator sets to be used during construction phase shall be of ultra low diesel type and should conform Ö Environment (Protection) Rules
- 00 if required, clearance from Chief Controller of Explosives shall be taken The diesel required for operating DG sets shall be stored in underground tanks and
- 9 Ambient noise levels shall conform to the residential standards both during day and Incremental pollution loads on the ambient air and noise quality should be

- conform to the stipulated residential standards of CPCB/MoEF reduce ambient air pollution and noise level during construction phase, so as to closely monitored during construction phase. Adequate measures should be taken to
- [10] Fly ash shall be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and as amended on 27th August 2003.
- person bersond bersond Storm water control and its re-use as per CGWB and BIS standards for various applications should be ensured.
- [2] curing agents and other best practices. Water demand during construction shall be reduced by use of pre-mixed concrete
- [13] Roof must meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material
- [14] insulation material to fulfill requirement. while it is desirable for non-air-conditioned spaces by use of appropriate thermal Building Code which is proposed to be mandatory for all air conditioned Opaque wall must meet prescriptive requirement as per Energy Conservation
- [15] The approval of the competent authority shall be obtained for structural safety of the National Building Code including protection measures from lightening etc. building on account of earthquake, adequacy of fire fighting equipments, etc. as per
- [16] silting chamber and removal of floating matter before entering harvesting pit. premises. Rain water harvesting pits shall be designed to make provisions for Care shall also be taken that contaminated water do not enter any RWH pit. Maintenance budget and persons responsible for maintenance must be provided. harvesting pits under expansion for recharging the ground water within the project The Project Proponent as stated in proposal shall construct 04 nos. rain water
- [17] proponent shall take necessary permission regarding fire safety scheme/NOC from competent Authority as required. by the local Authority/Directorate of fire from time to time. Further the project equipments as required by Haryana Fire Service Act, 2009 and instructions issued project proponent shall provide for adequate fire safety measures
- [18] 3778.50 KW of power supply before the start of construction. In no case project The Project Proponent shall obtain assurance from the DHBVN for total supply of external power utility. operational solely on generators without any power supply
- 19 construction. Provisions shall be made for electrical infrastructure in the project Detail calculation of power load and ultimate power load of the project shall be DHBVN under intimation to SEIAA Haryana before the start of

- [20] Nallah/water course is not obstructed. depression / Nallah/water course and shall ensure that the natural flow Project Proponent shall not raise any construction Ħ. the natural from the
- [21]sufficiently above the level of the approach road to the Project. Levels of the other areas in the Projects shall also be kept suitably so as to avoid flooding. Project Proponent shall keep the plinth level of the building blocks
- [22] norms approved by Director General Town and Country Department Haryana Construction shall be carried out so that density of population does not exceed
- [23]water will not be The Project Proponent shall submit an affidavit with the declaration that ground construction used for construction and only treated water should be used for
- [24]should be modified to include those trees in green area. The project proponent shall not cut any existing tree and project landscaping plan
- [25]pumping, lighting and electrical infrastructure must meet ECBC norms zone are project met. In particular building envelope, HVAC service, water heating, proponent shall ensure that ECBC norms for composite
- [26]covering of stored material to restrict dust and air pollution during construction project area, dust screen for every floor above the ground, proper sprinkling and Project Proponent shali provide W meter high barricade around
- [27] the project site to trap pollutant and other wastes during rains The project proponent shall construct a sedimentation basin in the lower level of
- [28] strength for the project before the start of construction. project proponent shall provide proper rasta of proper width and proper
- [29] and maximum solar heat gain co-efficient is 0.25 for vertical fenestration The project proponent shall ensure that the U-value of the glass is less than
- [30] premises. Project Proponent shall provide respiratory protective equipment to all non-silica dust and wood dust. Such dusts shall not spread outside project project proponent shall adequately control construction dusts like silica dust,
- above 30 meter as per National Building Code. The project proponent shall provide fire control room and fire officer for building
- 32 The project proponent shall obtain permission of Mines and Geology for excavation of soil before the start of construction Department
- 33 meter as per National Building Code. The project proponent shall not convert any The project proponent shall provide one refuge area till 24 meter and one till 39 refuse area in the habitable space and it should not be sold out/commercialized
- **&** Authority/HUDA regarding project proponent shall provision of storm drainage seek specific prior approval from and sewerage concerned system

- including their integration with external services beside other required services before taking up any construction activity. of HUDA/ Local authorities
- [35] in the public drainage system and shall seek permission of HUDA before the start The project proponent shall discharge excess of treated waste water/storm water
- [36] The project proponent shall ensure that structural stability to withstand earthquake of magnitude 8.5 on Richter scale
- [37] Vertical fenestration shall not exceed 60% of total wall area

#### Operational Phase:

- 20 SEIAA, Haryana. Control Board under Air and Water Act and a copy shall be submitted to the ଟ Operate" shall pe e obtained from Haryana State
- <u></u> recycled to achieve zero exit discharge. The installation of STP shall be certified equivalent to 50% of total capacity or as per the initial occupancy as the case may project proponent shall essentially provide two numbers implement such STP technology which does not require filter backwash. CPCB/ HSPCB, whichever is environmentally better. Project Proponent Similarly total Nitrogen level shall be less than 2mg/liter in tertiary treated waste only Ortho-Phosphorus but total Phosphorus to the extent of less than 2mg/liter treatment of waste water is mandatory. The project proponent shall remove not by an independent expert and a report in this regard shall be submitted sewage to the prescribed standards including odour and treated effluent will be Discharge of treated sewage shall conform to the norms and standards of Haryana before Treatment Plant (STP) shall be installed for the treatment the project ıs commissioned for operation. of STPs preferably to
- $\subseteq$ and the recycled water will be used for flushing, gardening and DG set cooling etc. ensuring that the re-circulated water should have BOD level less than 5 mg/litre Separation of the grey and black water should be done by the use of dual plumbing Treatment of 100% grey water by decentralized treatment should
- <u>d</u> process should be used For disinfection of the treated wastewater ultra-violet radiation or ozonization
- ø as per the CPCB norms. The diesel used for DG sets shall be ultra low sulphur proponent with appropriate stack height above the highest roof level of the project and conform to rules made under the Environment (Protection) Act, 1986. power ppm sulphur), instead of low sulphur diesel generating sets proposed as source illumination and for domestic use should be  $\mathbb{D}G$ sets shall be in the basement of back-up power for as promised by of enclosed

- 三 prescribed standards both within and at the boundary of the Proposed Commercial Ambient Noise level should be controlled to ensure that it does not exceed the
- ଟ୍ର shall be preferably landscaped and covered with vegetation/grass, herbs against noise and suspended particulate matter. The open spaces inside the project and on the road sides preferably with local species which can provide protection green cover area for tree plantation especially all around the periphery of the project Only locally available plant species shall be used The project proponent as stated in the proposal shall maintain at least 25.21% ξo shrubs.
- minimizing grass area, using native variety, xeriscaping and mulching, utilizing The project proponent shall strive to minimize water in irrigation of landscape by transpiration data irrigation system, scheduling irrigation only after checking evapo-
- E used wherever required material or paint which can contaminate rain water. Wire mess and filters should be enter any RWH pit. The project proponent shall avoid Rain Water Harvesting of the highest ground water table. Care shall be taken that contaminated water do not first 10 minutes Rain water harvesting for roof run-off and surface run-off, The bore well for rainwater recharging shall be kept at least 5 mts. above þe sedimentation tanks implemented. of rain fall. Roof top of the building shall be without Before recharging the surface run off, pre-treatment must be done ಠ remove suspended matter, oil as per plan submitted
- with Central Ground Water Authority. ground water level and its quality should be monitored regularly in consultation
- Z the SEIAA, Haryana in three months time. details about building materials & technology, R & U Factors etc and submitted to A report on the energy conservation measures conforming to energy conservation finalized by Bureau of Energy Efficiency should be prepared incorporating
- 1 must be adapted to the maximum energy conservation design and outside the Energy conservation measures like installation of LED only for lighting the building and inside the building should be integral part of the бе in place before project commissioning. Use of solar project panels
- provide halon free fire suppression system. insulation, refrigeration, air-conditioning and adhesive. Project Proponent shall also Project Proponent shall use zero ozone depleting potential material ≅.
- the requirement of the MSW Rules, 2000 and as amended from time to time. The solid waste ear-marked within waste should be treated by appropriate technology (proposed OWC) at generated should be properly collected and segregated tie e project area and dry/inert solid waste should The bioper Ö,

- material disposed off to the approved sites for land filling after recovering
- ٥ HAREDA and shall be made operational in each building block. The provision of the solar water heating system shall be as per norms specified by
- 73 internalized and no public space should be used rom requirement. There should be no traffic congestion near the entry and exit points The traffic plan and the parking plan proposed by the Project Proponent should be meticulously roads adhered to adjoining with the proposed further scope project OF, site. additional parking Parking should for
- ٥ The Project shall be operationalized only when HUDA/local authority will provide domestic water supply system in the area
- jeaneis, jeane kranseni completion of Infrastructure, Operation and pollution control maintenance Off. , AIS measures solid shall waste o o management ensured even and after electrical
- (A) made under Environment Protection Act, 1986. Particularly E-waste and Battery Different type of wastes should be disposed off as authorized collection center solid waste, biomedical waste, hazardous waste, e-waste, batteries & shall be disposed of as per existing E-waste Management Rules Management dismantler as per existing E-waste Management Rules 2011 for E-waste and it shall be disposed Rules 2001. The project proponent per of to only registered and provisions of municipal shall plastic rules maintain 2011
- 400) (100) with schedules of rule 3 of Environment Protection Rule 1986 shall be strictly complied Standards for discharge S. environmental pollutants as enshrined Ë various
- project proponent shall also identify acceptable outfall for treated effluent. for safety against failure in the operation of wastewater treatment facilities. project proponent shall make provision for guard pond and other provisions The
- N. within CPCB greater than 800 KVA shall be as per CPCB The project proponent shall ensure that the stack height of DG sets is as the guide lines CPCB latest and also ensure that the emission standards of noise and air prescribed limits. Noise latest standards for high capacity 32 Emission level of DG per 0 are
- processing Section of the section of between 0.98 All electric supply exceeding 100 amp, Ö 1 at the point of connection Ç phase shall maintain E G power
- M reflective or pervious surface instead of hard surface project proponent shall minimize heat island effect through shading
- 4 ĎУ Air based project project proponent for cooling, HVAC proponent shall not use system should be adopted and only treated water hanet t janet s (<del>\*\*</del> ŭ, fresh at all needed. water for The HVAC Project and Proponent shall 0

also use evaporative cooling technology and double stage cooling system for used for saving cooling water consumption for water cooled DG Sets resorted for conservation of power and water. Coil type cooling DG Sets shall be humidity HVAC Variable speed drive, best Co-efficient of Performance (CoP), as well as optimal in order to reduce water consumption. Further temperature, relative during summer and winter seasons should be kept at optimal level Point Load Value and minimum outside fresh air supply ģ

- N quality grain oriented, low loss silicon steel and virgin electrolyte grade The project proponent shall ensure that the transformer is constructed with high The project proponent shall obtain manufacturer's certificate also for that.
- (4) (4) Water supply shall be metered among different users and different utilities
- 2 sufficiently high. Stack shall be designed in such a way that there is no stack down-wash under any meteorological conditions project proponent shall ensure that exit velocity from the stack should be
- 200 Air Environment Chapter of EMP The project proponent shall provide water sprinkling system in the project area the dust in addition to the already suggested mitigation measures in the
- 20 The project proponent shall provide additional green area on terrace and roof top.
- 22 the project proponent of emergency capacity for increasing ACH to the extent of 30 must be provided by number of Air Changes per hour/(ACH) in basement never falls below basements The project proponent shall ensure proper Air Ventilation and light system in the area for comfortable living of human being and shall ensure
- 22 The project proponent shall install solar panel for energy conservation

# PART-B. GENERAL CONDITIONS:

- 1855 ¢ commitment by project proponent. environment and proposed environmental safeguards are complied with in letter EIA/EMP and other documents submitted to the SEIAA for the protection of Project Proponent shall ensure the commitments made in Form-1, Form-1A, environmentally In case of contradiction between two or more documents on any point, friendly commitment on the point shall be taken as
- icascal basi e basi e compliance of the stipulated EC conditions including results of monitored data project proponent shall also submit six monthly reports on the in hard copies as well **HSPCB** and SEIAA Haryana S Š e-mail) to the northern Regional Office of status 0
- Other STP outlet after stabilization and stack emission shall be monitored environmental parameters and green belt shall be monitored on quarterly monthly.

- environmental audit and shall take corrective measure, if required, without delay. After every 3 (three) months, the project proponent shall
- stipulated are not implemented to the satisfaction of SEIAA/MoEF revoked if it is found that false information has been given for getting approval of this project. SEIAA, SEIAA reserves the right to revoke the clearance if conditions Haryana reserves the right to add additional safeguard measures =; found necessary. Environmental Clearance granted will be
- V by any Court/Tribunal. The Project proponent shall not violate any judicial orders/pronouncements issued
- V. All other statutory clearances such as the approvals for storage of diesel from the respective authorities prior to construction of the project. 1927, PLPA 1900, etc. shall be obtained, as applicable by project proponents from Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972, Forest Act, Controller of Explosives, Fire Department, Civil Aviation Department,
- [vii] same should be forwarded to SEIAA Haryana. A copy of Environment Clearance The Project proponent should inform the public that the project has been accorded conditions shall also be put on project proponent's web site for public awareness. two local newspapers that are widely circulated in the region and the copy of the available with the Haryana State Pollution Control Board & SEIAA. This should Environment Clearance by the SEIAA and copies of the clearance letter are advertised within 7 days from the date of issue of the clearance letter at least in
- Under the provisions of Environment (Protection) Act, 1986, legal action shall be Clearance expansion initiated against the Project Proponent if it was found that construction of the project has been started before obtaining prior Environmental
- XI Section 16 of the National Green Tribunal Act, 2010. Green Tribunal, if preferred, within a period of 30 days as prescribed under Any appeal against the this Environmental Clearance shall lie with the National
- $\overline{\mathbb{X}}$ shall be submitted in the compliance. project proponent (2% shall be earmarked) as per guidelines of MoEF, GoI Office executed under this responsibility shall be undertaken simultaneously. The project Memorandum No. J-11013/41/2006-IA.II(I) dated 18.05.2012 and Ministry of Corporate Environment and Social Responsibility (CSER) shall be laid down by the Affairs, Gol Notification Dated 27.02.2014. A separate audit statement Environment related work proposed

- proponent shall select and prepare the list of the work for implementation of CSER of its own choice and shall submit the same before the start of construction.
- expenditure shall be reported to the SEIAA/RO MoEF, GoI under rules prescribed for Environment Audit. fund ear-marked account and should not be diverted for other for environment protection measures should be purposes and year
- [xii] Notification no. S.O.121/PA2/1900/S.4/97 dated 28.11.1997. The project proponent shall ensure the compliance of Forest Department, Haryana
- certificate from competent Authority. The Project Proponent shall ensure that no vehicle during construction/operation enter the project premises without valid 'Pollution Under Control?
- [xiv] Besides the developer/applicant, the responsibility to ensure the compliance of Haryana. license/CLU has been granted by the Town & Country Planning Department, Environmental Safeguards/ conditions imposed in the shall also lie on the licensee/licensees III Environmental whose name/names Clearance
- displayed at a convenient location near the main gate of the company in the public critical Benzopyrine, arsenic and Nickel. (Ambient levels as well as stack emissions) or levels namely; PM25, PM10, SOX NOX, Ozone, Lead, CO, Benzene, Ammonia, MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant the same periodically. It shall simultaneously be sent to the Regional Office of The conditions, including results of monitored data on their website and shall proponent shall upload the sectoral parameters, indicated for the status of compliance project shall be of the monitored stipulated and
- of compliance of the EC conditions subsequently, shall also be put on the website of the company along with the status Regional Offices of MoEF by e-mail. as is mandated to be submitted by the project proponent to the HSPCB Panchkula The environmental statement for each financial year ending 31st March in Form-V prescribed under the Environment (Protection) Rules, and shall also 99 sent to 1986, the respective as amended
- [XVII] The project proponent shall conduct environment audit at Details of environmental audit and corrective measures shall be submitted in the monitoring report thereafter corrected measures shall be taken without any every three months delay.

[xviii] The project proponent shall seek fresh environmental clearance existing in the project area or change in any plan due to combined zoning plan. modification /revision is required at a later stage due to exchange of revenue rasta in case any

Member Secretary,

Assessment Authority, Haryana, Panchkula. State Level Environment Impact

Endst. No. SEIAA/HR/2016/

Dated:..

A copy of the above is forwarded to the following:

- Bhavan, Zor bagh Road-New Delhi. Additional Director (IA Division), MoEF&CC, GoI, Indra Paryavaran
- N of India, Bay's no. 24-25, Sector 31-A, Dakshin Marg, Chandigarh. The Regional office, Ministry of Environment, Forests & Climate Change, Govt.
- 60 The Chairman, Haryana State Pollution Control Board, C-11, Sector-6, Pkl

Assessment Authority, Haryana, Panchkula. State Level Environment Impact Member Secretary,