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

No. SEIAA/HR/2017/122

Dated: 10-03-2017....

To

M/s VRP Buildtech Pvt. Ltd., VRP Buildtech Pvt. Ltd. 1F-22-26, Ozone Centre, Sector-12, Faridabad-121007

Subject:

Environmental Clearance for proposed Affordable Group Housing Colony located in the revenue estate of Village Bhatola, Sector-85, Faridabad, Haryana.

Dear Sir,

addressed to M.S. SEIAA, Haryana received on 21.11.2016 seeking prior Environmental Notification, 2006 on the basis of the mandatory documents enclosed with the application appraised as per prescribed procedure in the light of provisions under the EIA Clearance for the above project under the EIA Notification, 2006. The proposal has been viz., Form-1, Form1-A, Conceptual Plan and additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC) constituted by MOEF, GOI vide their Notification 21.08.2015, in its meetings held on 15.12.2016 awarded "Gold" grading to the project. This letter is in reference to your application no. nil dated 10.11.2016

Group Housing Colony located in the revenue estate of Village Bhatola, Sector-85, It is inter-alia, noted that the project involves the construction of Affordable

Faridabad, Haryana as above:

RWH 06 pits
ECS 375 ECS and /30 for two wheelers
Solid Waste 1939 kg/day
Power Requirement 4195 KVA DHBVN
STP Capacity 350 KLD
Waste Water 278 KLD
Fresh Water 240 KLD
Water requirement 349 KLD
Green belt 20.05%
Height 49 Meter
Nos. of Towers  Max. 14 floors, commercial  Anganwadi/crèche and community hall
License Valid up 19.09.2021  License Valid up 19.09.2021  Pasement + Stilt +
Built up area 59680.89 sqm
Plot area 20461.885 sqm (5.05 Acres)
Particulars Kemarks

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

mentioned below:-Notification 2006 subject to the strict compliance with the specific and general conditions accord necessary environmental clearance for the project under Category 8(a) of EIA clearance for the project mentioned above, subject to compliance with the stipulated meeting held on 01.03.2017 decided to agree with the recommendations of SEAC to conditions. Accordingly, the State Environment Impact Assessment Authority in its

#### PAKI A-

### SPECIFIC CONDITIONS:-Construction Phase:-

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,

"Consent for Establish" shall be obtained from Haryana State Pollution Control

- [2] A first aid room as proposed in the project report shall be provided both during construction and operational phase of the project.
- $\Box$ by the laboures is strictly prohibited. The safe disposal of waste water and solid Adequate drinking water and sanitary facilities shall be provided for construction wastes generated during the construction phase should be ensured workers at the site. Provision should be made for mobile toilets. Open defecation
- 4 horticulture/landscape development within the project site. All the topsoil excavated during construction activities shall be stored for use in
- <u></u> of competent authority. general safety and health aspects of people, only in approved sites with the approval communities and should be disposed of after taking necessary precautions for construction waste should not create any adverse effect on the neighboring The project proponent shall ensure that the building material required during construction phase is properly stored within the project area and disposal of
- 6 material must be secured so that they should not leach into the ground water and any hazardous waste generated during construction phase, should be disposed off as Construction spoils, including bituminous material and other hazardous materials, Pollution Control Board. per applicable rules and norms with necessary approval of the Haryana State must not be allowed to contaminate watercourses and the dump sites for such
- sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards. The diesel generator sets to be used during construction phase shall be of ultra low
- <u>∞</u> 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] night. Incremental pollution loads on the ambient air and noise quality should be Ambient noise levels shall conform to the residential standards both during day and

reduce ambient air pollution and noise level during construction phase, so as to closely monitored during construction phase. Adequate measures should be taken to conform to the stipulated residential standards of CPCB/MoEF.

- [10]of Fly Ash Notification of September 1999 and as amended on 27th August 2003. Fly ash shall be used as building material in the construction as per the provisions
- [11]Storm water control and its re-use as per CGWB and BIS standards for various applications should be ensured.
- [12][13]Roof must meet prescriptive requirement as per Energy Conservation Building Water demand during construction shall be reduced by use of pre-mixed concrete, curing agents and other best practices.
- Code by using appropriate thermal insulation material.
- [14] Opaque wall must meet prescriptive requirement as per Energy Conservation 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 spaces
- [15] The approval of the competent authority shall be obtained for structural safety of the National Building Code including protection measures from lightening etc. If any building on account of earthquake, adequacy of fire fighting equipments, etc. as per forest land is involved in the proposed site, clearance under Forest Conservation Act shall be obtained from the competent Authority.
- [16]The Project Proponent as stated in the proposal shall construct total 06 rain water harvesting pits for recharging the ground water within the project premises. Rain persons responsible for maintenance must be provided. Care shall also be taken removal of floating matter before entering harvesting pit. Maintenance budget and water harvesting pits shall be designed to make provisions for silting chamber and that contaminated water do not enter any RWH pit.
- [17] The project proponent shall provide for adequate fire safety measures and proponent shall take necessary permission regarding fire safety scheme/NOC from 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 competent Authority as required.
- [18]The Project Proponent shall obtain assurance from the DHBVN for supply of 4195 operational solely on generators without any power supply from any external KVA of power supply before the start of construction. In no case project will be power utility.
- Detail calculation of power load and ultimate power load of the project shall be submitted to DHBVN under intimation to SEIAA Haryana before the start of construction. Provisions shall be made for electrical infrastructure in the project

- [20]The Project Proponent shall not raise any construction in the natural land Nallah/water course is not obstructed. depression / Nallah/water course and shall ensure that the natural flow from the
- [21] areas in the Projects shall also be kept suitably so as to avoid flooding sufficiently above the level of the approach road to the Project. Levels of the other The Project Proponent shall keep the plinth level of the building blocks
- [22] Construction shall be carried out so that density of population does not exceed norms approved by Director General Town and Country Department Haryana.
- [23] construction. water will not be used for construction and only treated water should be used for The Project Proponent shall submit an affidavit with the declaration that ground
- [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]The project proponent shall provide 3 and covering of stored material to restrict dust and air pollution during project area, dust screen for every floor above the ground, proper sprinkling meter high barricade around the
- [26]project site to trap pollutant and other wastes during rains. The project proponent shall construct a sedimentation basin in the lower level of the
- [27] strength for the project before the start of construction. The project proponent shall provide proper rasta of proper width and proper
- [28] 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 3.177
- [29] Project Proponent shall provide respiratory protective equipment to all construction non-silica dust and wood dust. Such dusts shall not spread outside project premises. The project proponent shall adequately control construction dusts like silica dust,
- [30]Housing colony including internal roads, green belt development, sewerage line, The project proponent shall develop complete civic infrastructure of the Group possession of the units/flats thereafter. water supply line, dual plumbing line, electric supply lines etc. and shall offer management site and provision for treatment of bio-degradable waste, Rain Water recharge arrangements, Storm water drainage system, Solid waste
- [31] meter each, as per National Building Code. The project proponent shall not The project proponent shall provide one refuge area till 24 meter and one till 39 out/commercialized. convert any refuse area in the habitable space and it should not be sold
- [32] above 30 meter as per National Building Code. The project proponent shall provide fire control room and fire officer for building

- [33] The project proponent shall obtain permission of Mines and Geology Department for excavation of soil before the start of construction.
- The project proponent shall seek specific prior approval from concerned local Authority/HUDA regarding provision of storm drainage and sewerage system other required services before taking up any construction activity including their integration with external services of HUDA/ Local authorities beside
- [35] The site for solid waste management plant be earmarked on the layout plan and the to the Authority within one month. detailed project for setting up the solid waste management plant shall be submitted
- [36]The project proponent shall submit the copy of fire safety plan duly approved by Fire Department before the start of construction.
- [37] The project proponent shall discharge excess of treated waste water/storm water in the public drainage system and shall seek permission of HUDA before the start of construction.
- [38] The project proponent shall maintain the distance between STP and water supply
- [39] The project proponent shall ensure that the stack height is 6 meter more than the highest tower.
- [40]The project proponent shall ensure that structural stability to withstand earthquake of magnitude 8.5 on Richter scale.

### Operational Phase:

- [2] "Consent to Operate" shall be obtained from Haryana State Pollution Control Board under Air and Water Act and a copy shall be submitted to the SEIAA,
- <u>[</u> SEIAA, Haryana before the project is commissioned for operation. Tertiary by an independent expert and a report in this regard shall be submitted to the sewage to the prescribed standards including odour and treated effluent will be The Sewage Treatment Plant (STP) shall be installed for the treatment of the only Ortho-Phosphorus but total Phosphorus to the extent of less than 2mg/liter. recycled to achieve zero exit discharge. The installation of STP shall be certified treatment of waste water is mandatory. The project proponent shall remove not project proponent shall essentially provide two numbers of STPs preferably CPCB/ HSPCB, whichever is environmentally better. Project Proponent shall water. Discharge of treated sewage shall conform to the norms and standards of Similarly total Nitrogen level shall be less than 2mg/liter in tertiary treated waste equivalent to 50% of total capacity or as per the initial occupancy as the case may implement such STP technology which does not require filter backwash. The

- Separation of the grey and black water should be done by the use of dual plumbing 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 line. Treatment of 100% grey water by decentralized treatment should be done to achieve zero exit discharge.
- <u>a</u> process should be used. For disinfection of the treated wastewater ultra-violet radiation or ozonization
- e\_ Diesel power generating sets proposed as source of back-up power for lifts, diesel (35 ppm sulphur), instead of low sulphur diesel 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 location of the DG sets shall be in the open as promised by the project conform to rules made under the Environment (Protection) Act, 1986. The common area illumination and for domestic use should be of enclosed type and
- $\Xi$ Ambient Noise level should be controlled to ensure that it does not exceed the Group Housing Project. prescribed standards both within and at the boundary of the Proposed Affordable
- <u>00</u> The project proponent as stated in the proposal should maintain at least 20.5% herbs & shrubs. Only locally available plant species shall be used. project and on the road sides preferably with local species which can provide as green cover area for tree plantation especially all around the periphery of the the project shall be preferably landscaped and covered with vegetation/grass, protection against noise and suspended particulate matter. The open spaces inside
- <u></u> 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. efficient irrigation system, scheduling irrigation only after checking evapo-
- Ξ should be implemented. Before recharging the surface run off, pre- treatment grease. The bore well for rainwater recharging shall be kept at least 5 mts. above through sedimentation tanks must be done to remove suspended matter, oil and Rain water harvesting for roof run-off and surface run-off, as per plan submitted be used wherever required material or paint which can contaminate rain water. Wire mess and filters should first 10 minutes of rain fall. Roof top of the building shall be without any toxic 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
- consultation with Central Ground Water Authority. ground water level and its quality should be monitored regularly

- K A report on the energy conservation measures conforming to energy conservation the SEIAA, Haryana in three months time. details about building materials & technology, R & U Factors etc and submitted to norms finalized by Bureau of Energy Efficiency should be prepared incorporating
- $\equiv$ must be adapted to the maximum energy conservation. design and should be in place before project commissioning. Use of solar panels outside the building and inside the building should be integral part of the project Energy conservation measures like installation of LED only for lighting the areas
- m provide Halon free fire suppression system. The Project Proponent shall use zero ozone depleting potential material in insulation, refrigeration, air-conditioning and adhesive. Project Proponent shall also
- Ξ approved sites for land filling after recovering recyclable material. The solid waste generated should be properly collected and segregated as per the within the project area and dry/inert solid waste should be disposed off to the degradable waste should be treated by appropriate technology at the site ear-marked requirement of the MSW Rules, 2000 and as amended from time to time. The bio-
- 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
- [p] adhered to meticulously with further scope of additional parking for future The traffic plan and the parking plan proposed by the Project Proponent should be internalized and no public space should be used. from the roads adjoining the proposed project site. Parking should be fully requirement. There should be no traffic congestion near the entry and exit points
- $[\mathbf{q}]$ domestic water supply system in the area. The Project shall be operationalized only when HUDA/local authority will provide
- = completion of project. Operation and maintenance of STP, solid waste management and electrical Infrastructure, pollution control measures shall be ensured even after the
- S Different type of wastes should be disposed off as per provisions of municipal solid Management Rules 2001. The project proponent should maintain a collection center shall be disposed of as per existing E-waste Management Rules 2011 and Batteries under Environment Protection Act, 1986. Particularly E-waste and Battery waste for E-waste and it shall be disposed of to only registered and authorized dismantler / waste, biomedical waste, hazardous waste, e-waste, batteries & plastic rules made
- Ŧ schedules of rule 3 of Environment Protection Rule 1986 shall be strictly complied Standards for discharge of environmental pollutants as enshrined in various
- Ξ Water supply shall be metered among different users and different utilities

- **\** The project proponent shall ensure that the of DG sets is more than the highest 800 KVA shall be as per CPCB latest standards for high capacity DG sets CPCB latest prescribed limits. Noise and Emission level of DG sets greater than tower and also ensure that the emission standards of noise and air are within the
- \* between 0.98 lag to 1 at the point of connection. All electric supply exceeding 100 amp, 3 phase shall maintain the power factor
- X power and water. Coil type cooling DG Sets shall be used for saving cooling water best Co-efficient of Performance (Cop), as well as optimal Integrated Point Load summer and winter seasons should be kept at optimal level. Variable speed drive, order to reduce water consumption. Further temperature, relative humidity during use evaporative cooling technology and double stage cooling system for HVAC in project proponent for cooling, if it is at all needed. The Project Proponent shall also based HVAC system should be adopted and only treated water shall be used by The project proponent shall not use fresh water for HVAC and DG cooling. Air consumption for water cooled DG Sets. Value and minimum outside fresh air supply may be resorted for conservation of
- <u>Y</u> project proponent shall obtain manufacturer's certificate also for that quality grain oriented, low loss silicon steel and virgin electrolyte grade copper. The The project proponent shall ensure that the transformer is constructed with high
- $\mathbf{z}$ down-wash under any meteorological conditions. sufficiently high. Stack shall be designed in such a way that there is no stack The project proponent shall ensure that exit velocity from the stack should be
- aa The project proponent shall provide water sprinkling system in the project area to Air Environment Chapter of EMP. suppress the dust in addition to the already suggested mitigation measures in the
- [ab] emergency capacity for increasing ACH to the extent of 30 must be provided by the The project proponent shall ensure proper Air Ventilation and light system in the project proponent. of Air Changes per hour/(ACH) in basement never falls below 15. In case of basements area for comfortable living of human being and shall ensure that number
- [ac] prescribed standards till treated water supply is made available by HUDA The project proponent shall ensure drinking/ domestic water supply
- [ad] The project proponent shall provide green area on terrace and roof top.
- [ae] The project proponent shall install solar panel for energy conservation.

## PART-B. GENERAL CONDITIONS:

The Project Proponent shall ensure the commitments made in Form-1, Form-1A, EIA/EMP and other documents submitted to the SEIAA for the protection of environment and proposed environmental safeguards are complied with in letter

and spirit. In case of contradiction between two or more documents on any point, commitment by project proponent. the most environmentally friendly commitment on the point shall be taken as

- Ξ The project proponent shall also submit six monthly reports on the status of MoEF, the respective Zonal Office of CPCB, HSPCB and SEIAA Haryana (both in hard copies as well as by e-mail) to the northern Regional Office of compliance of the stipulated EC conditions including results of monitored data
- STP outlet after stabilization and stack emission shall be monitored monthly. environmental audit and shall take corrective measure, if required, without delay. Other environmental parameters and green belt shall be monitored on quarterly After every 3 (three) months, the project proponent shall conduct
- V subsequently, if found necessary. Environmental Clearance granted will be The SEIAA, Haryana reserves the right to add additional safeguard measures stipulated are not implemented to the satisfaction of SEIAA/MoEF this project. SEIAA reserves the right to revoke the clearance if conditions revoked if it is found that false information has been given for getting approval of
- ⋖ by any Court/Tribunal. The Project proponent shall not violate any judicial orders/pronouncements issued
- <u>₹</u>. All other statutory clearances such as the approvals for storage of diesel from Chief Conservation Act, 1980 and Wildlife (Protection) Act, 1972, Forest Act, 1927, respective authorities prior to construction of the project. PLPA 1900, etc. shall be obtained, as applicable by project proponents from the Controller of Explosives, Fire Department, Civil Aviation Department, Forest
- [vii] The Project proponent should inform the public that the project has been accorded should be forwarded to SEIAA Haryana. A copy of Environment Clearance advertised within 7 days from the date of issue of the clearance letter at least in two available with the Haryana State Pollution Control Board & SEIAA. This should be conditions shall also be put on project proponent's web site for public awareness local newspapers that are widely circulated in the region and the copy of the same Environment Clearance by the SEIAA and copies of the clearance letter are
- [viii] Under the provisions of Environment (Protection) Act, 1986, legal action shall be project has been started before obtaining prior Environmental Clearance. initiated against the Project Proponent if it was found that construction of the
- [X] Any appeal against the this Environmental Clearance shall lie with the National Section 16 of the National Green Tribunal Act, 2010. Green Tribunal, if preferred, within a period of 30 days as prescribed under
- × mentioned in MoEF, GoI OM No. J-11013/41/2006-IA II (I) dated 26.4.2012 The project proponent shall put in place Corporate Environment Policy as

- to SEIAA within 3 months of issuance of this letter. within 3 months period. Latest Corporate Environment Policy should be submitted
- for Environment Audit. expenditure shall be reported to the SEIAA/RO MOEF GOI under rules prescribed The fund ear-marked for environment protection measures should be kept in separate account and should not be diverted for other purposes and year wise
- [iix] The project proponent shall ensure the compliance of Forest Department, Haryana Notification no. S.O.121/PA2/1900/S.4/97 dated 28.11.1997.
- The Project Proponent shall ensure that no vehicle during construction/operation certificate from competent Authority. enter the project premises without valid 'Pollution Under Control'
- The project proponent is responsible for compliance of all conditions in himself /herself of the responsibility by shifting it to any contractor engaged Environmental Clearance letter and project proponent can project proponent. not absolve
- The project proponent shall seek fresh Environmental clearance if at any stage there is change in the planning of the proposed project.
- [xvi] Besides the developer/applicant, the responsibility to ensure the compliance of license/CLU has been granted by the Town & Country Planning Department, letter shall also lie on the Environmental Safeguards/ conditions imposed in the Environmental licensee/licensees in whose name/names the
- [xvii] The proponent shall upload the status of compliance of the stipulated EC displayed at a convenient location near the main gate of the company in the public critical sectoral parameters, indicated for the project shall be monitored and Benzopyrine, arsenic and Nickel. (Ambient levels as well as stack emissions) or levels namely; PM2.5, 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 conditions, including results of monitored data on their website and shall
- [xviii] The environmental statement for each financial year ending 31st March in Form-V Regional Offices of MoEF by e-mail. subsequently, shall also be put on the website of the company along with the status of compliance of the EC conditions and shall also be sent to the respective as prescribed under the Environment (Protection) Rules, 1986, as amended as is mandated to be submitted by the project proponent to the HSPCB Panchkula
- [xix] The project proponent shall conduct environment audit at every three months interval and thereafter corrected measures shall be taken without any delay

monitoring report. Details of environmental audit and corrective measures shall be submitted in the

 $[\mathbf{x}\mathbf{x}]$ of its own choice and shall submit the same before the start of construction. Corporate Environment and Social Responsibility (CSER) shall be laid down by the proponent shall select and prepare the list of the work for implementation of CSER shall be submitted in the compliance. Environment related work proposed to be project proponent (2% shall be earmarked) as per guidelines of MoEF, GoI Office executed under this responsibility shall be undertaken simultaneously. The project Corporate Affairs, Gol Notification Dated 27.02.2014. A separate audit statement Memorandum No. J-11013/41/2006-IA.II(I) dated 18.05.2012 and Ministry of

State Level Environment Impact Assessment Authority, Haryana, Panchkula.

Endst. No. SEIAA/HR/2017/

Dated:....

A copy of the above is forwarded to the following:

- Zor bagh Road-New Delhi. The Additional Director (IA Division), MOEF, GOI, Indra Paryavaran Bhavan,
- 2 31, Chandigarh. The Regional office, Ministry of Environment & Forests, Govt. of India, Sector
- 3. The Chairman, Haryana State Pollution Control Board, Pkl.

Chairman State Level Environment Impact Assessment Authority, Haryana, Panchkula.