

o/c

प्रति विधा

Rg 24
24/11/14

पर्यावरण एवं वन विभाग,
राज्यीय कार्यालय, चण्डीगढ़

Ref.: PDL/Strategic Planning/EIA/3066

Dated: 28.11.2014

✓ Mr. Surendra Kumar
Director
Ministry of Forest & Environment,
Northern Regional Office,
Bays No.24-25.Sector 31-A,
Dakshin Marg ,
Chandigarh -160030

Subject EC for development of "Parsvnath City" located at Kasba Karnal, Sector 35,Karnal by Parsvnath Developers Ltd.; Six monthly compliance report due in Dec. 2014 Submission- Reg.

Sir,

This has reference to the Environmental Clearance granted to the project vide. SEIAA/HR/2014/748 dated 29.05.2014.

In view of the above we are hereby submitting the 1st six monthly compliance report due in Dec.2014 along with the Monitoring report for Air, Water, Noise and Soil for your kind consideration.

This is for your information and records.

Yours sincerely,

For Parsvnath Developers Ltd.



Authorized Signatory
Encl: As above.

Cc: Member Secretary; SEIAA; Haryana
CC: Member Secretary; Haryana State Pollution Control Board, Haryana.

COMPLIANCE OF Environmental Clearance (EC) CONDITIONS

SPECIFIC CONDITIONS

As per the environment clearance letter from SEIAA, Haryana vide letter No. SEIAA/HR/2014/748 dated 29.05.2014; certain conditions have been taken into consideration to make the construction supervisor accountable for better environmental state during construction phase:

A. SPECIFIC CONDITIONS

1. CONSTRUCTION PHASE:

- i. "Consent to Establish" shall be obtained from Haryana State Pollution Control Board under Air and water Act and a copy shall be submitted to the SEIAA:Haryana before the start of any construction work at site.

Response: We have filed Consent to Establish to HSPCB for the project on dated 07.07.2014 ; we need to file afresh as is asked by HSPCB officials; CtE(Fresh) applied on dated 28.11.2014.

- ii. A First Aid Room as proposed in the project report shall be provided both during construction and operation of the project.

Response: We shall adhere to the same .

- iii. Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of waste water and solid wastes generated during the construction phase should be ensured.

Response: We shall adhere to the same.

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

Response: Not applicable as the project is an Area Development project so not excavation is to be done.

- v. The project proponent shall ensure that the building material required during construction phase is properly stored within the project area and disposal of construction waste should not be disposed of after taking necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.

Response: The project being area development area does not involve much building material as only site developmental work is to be done at the project. Moreover much care is taken for the dust generated on account of developmental work.

- vi. Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate water course and the dump sites for such 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 of as per applicable rules & norms with necessary approvals of the U.P. Pollution Control Board.

Response: We shall adhere to the same and regular monitoring for ground water is to done that the contamination could be monitored and avoided. Copy of the ground water monitored at site is enclosed as **Annexure-1**.

The proposed project being an Area Developmental project no Hazardous waste is anticipated to be generated from the project.

- vii. **The Diesel generator sets to be used during construction phase should be of low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.**

Response: We are adhering to the above for all of our sites and will adhere for this site also. HSD with Low sulphur content, conforming to Environment (Protection) Rules is to be used.

- viii. The Diesel required for operating the DG sets shall be stored in underground tanks & if required, clearances from Chief Controller of Explosives shall be taken.

Response: Diesel shall be stored in underground water tank. Small quantity of diesel being stored at the site and for such quantity no clearance is required from Chief Controller of Explosives.

- ix. Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air & noise level during construction phase. Adequate measures should be made to reduce ambient air & noise level during construction phase, so as to conform to the stipulated residential standards of CPCB/MoEF.

Response: We are adhering to the above. Ambient Monitoring report conducted for the construction site is enclosed for your reference. The level recorded for all the ambient pollutants are within the limits. Copy of the Ambient Air monitored at site is enclosed as **Annexure-1**.

- x. Fly ash should be used as building material in the construction as per the provisions of the Fly Ash notification of September, 1999 & amended as on 27th August 2003.

Response: Not much construction work is involved for the project being as the proposed project is Area Developmental project.

- xi. Storm water control and its reuse as per CGWB and BIS standards for various applications should be ensured.

Response: Storm Water at the site is to channelized through Storm water drains provided at the site and will be used for recharge of ground water.

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

Response: Not applicable, the proposed project being the Area Developmental Project.

- xiii. Roof must meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material.

Response: Not applicable, the proposed project being the Area Developmental Project.

- xiv. Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code that is proposed to be mandatory for all air-conditioned spaces while it is inspirational for no-air-conditioned spaces by use of appropriate thermal insulation material to fulfil requirement.

Response: Not applicable, the proposed project being the Area Developmental Project.

- xv. The approval of competent authority shall be obtained for structural safety of the building due to earthquake, adequacy of fire fighting equipments etc. as per National Building code including protection measures from lightening etc. If any forest land is involved in the proposed site, clearance under Forest Conservation Act shall be taken from the competent Authority.

Response: The proposed project being the Area Developmental Project does not require structural safety approval. No Forest land is involved in the project.

- xvi. The project proponent as stated in proposal shall construct 18 nos. of rain water harvesting pits for recharging the ground water within the project premises. Rain water harvesting pits shall be designed to make provisions for silting chamber and removal of floating matter before entering harvesting pit. Maintenance budget and persons responsible for maintenance must be provided. Care shall also be taken that contaminated water do not enter any RWH pit.

Response: We shall adhere to the above commitments. At present 7 Nos. of rain water harvesting pits have been made.

- xvii. The project proponent shall provide for adequate fire safety measures and equipments as required by Haryana Fire services Act,2009 and instructions issued by the local Authority/Directorate of fire from time to time. Further the project proponent shall take necessary permission regarding fire safety scheme/NOC from competent Authority as required.

Response: We shall adhere to the above.

- xviii. The project proponent shall obtain assurance from UHBVN for supply of 7400 KVA of power supply before the start of construction. In no case project will be operational solely on generators without any power supply from any external power utility.

Response: We have received the assurance from UHBVN for the supply of 7400 KVA of power. Copy of NOC enclosed as Annexure-2.

- xix. Detail calculation of power load and ultimate load of project shall be submitted to UHBVN under intimation to SEIAA Haryana before the start of construction. Provisions shall be

made for electrical infrastructure shall be made for electrical infrastructure in the project area.

Response: We shall comply with the same.

- xx. The project proponent shall not raise any construction in the natural land depression/Nallah/water course and shall ensure that the natural flow from the Nallah/water course is not obtained.

Response: We shall adhere to the same.

- xxi. The project proponent shall keep the plinth level of the building blocks sufficiently above the level of approach road to the project. Levels of the other areas in the Projects shall also be kept suitably so as to avoid flooding.

Response: Not applicable. The proposed project is an Area Developmental project .

- xxii. Construction shall be carried out so that density of population does not exceed norms approved by Director General Town and Country Department Haryana.'

Response: Not applicable. The proposed project is an Area Developmental project .

- xxiii. The project proponent shall submit an affidavit with the declaration that ground water will not be used for construction and only treated water should be used for construction.

Response: Not applicable. The proposed project is an Area Developmental project and does not have much construction activity. Moreover the water used for the developmental activities is to be managed by the water tankers.

- xxiv. The project proponent shall not cut any existing tree and project landscaping plan should be modified to include those trees in green area.

Response: We shall adhere to the above; No such activity is to be done for the project.

- xxv. The project proponent shall ensure ECBS norms for composite climate zone are met. In particular building envelope, HVAC service, water heating pumping, lighting and electrical infrastructure must meet ECBC norms.

Response: The proposed project is an Area Developmental project, Moreover Energy saving is taken into account to the extent possible such in common area, common street lighting etc.

- xxvi. The project proponent shall provide 3 m high barricade around the project area, dust screen for every floor above the ground, proper sprinkling and covering of stored material to restrict dust and air pollution during construction.

Response: Not much construction work is involved in the project as it's an Area Development project. However precautions shall be taken into account as per the above conditions implied.

- xxvii. The project proponent shall construct a sedimentation basin in the lower level of the project site to trap pollutant and other wastes during rains.

Response: The proposal for the above conditions shall be worked out and if feasible we shall adhere to the same.

- xxviii. The project proponent shall provide proper rasta of proper width and proper strength for the project before the start of construction.

Response: Proper rasta is already been provided at the project site for the proper movement.

- xxix. The project proponent shall ensure that the U-value of the glass is less than 3.177 and maximum solar heat gain co-efficient is 0.25 for vertical fenestration.

Response: Not applicable, The proposed project is an Area Developmental project.

- xxx. The project proponent shall adequately control construction dusts like silica dust, non-silica dust and wood dust. Such dusts shall not spread outside project premises. Project Proponent shall provide respiratory protective equipment to all construction workers.

Response: The project is an area Development Project, no major construction activity is involved.

- xxxi. The project proponent shall provide fire control room and fire officer for building above 30 meter as per National Building code.

Response: The project is an Area development project with the max. height of building < 30 m (i.e. G+2) is permissible for the plot owners.

- xxxii. The project proponent shall obtain permission of Mines and geology department for excavation of soil before the start of construction.

Response: Not applicable.

- xxxiii. The project proponent shall seek specific prior approval from concerned local Authority/HUDA regarding provision of storm drainage and sewerage system including their integration with external services of HUSA/local authorities beside other required services before taking up any construction activity.

Response: HUDA assurance letter for provisions of water, storm and sewerage is obtained for the project. Copy enclosed as Annexure 3.

- xxxiv. The site for solid waste management plant be earmarked on the layout plan and the detailed project for setting up the solid waste management plan shall be submitted to the Authority within one month.

Response: The area for solid waste management (Secondary Processing Area) is been marked in the Layout Plan and is submitted to the Authority. Copy enclosed as Annexure-4.

- xxxv. 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.

Response: We shall adhere to the above.

- xxxvi. The project proponent shall ensure that structural stability to withstand earthquake of magnitude 8.5 on Richter scale.

Response: The proposed project does not include any construction activity and no structural stability certificate is required to be obtained for the project.

- xxxvii. The project proponent shall ensure that no construction activity is undertaken either on surface or below or above surface of revenue rasta passing through the project area.

Response: We ensured that no construction activities is undertaken either on or below or above the revenue rasta. The planning for the project is been made accordingly and revisions have been done for the same as per the SEIAA, Haryana.

- xxxviii. The project proponent shall indicate the width and length of revenue rasta passing through the project area on sign board and shall display the same at both the ends of revenue rasta stretch, for awareness of public, sign board shall also display the message that this is public rasta/road and any citizen can use it. There shall not be any gate with or without guards and any citizen can use it. There shall not be any gate with or without guards on revenue rasta further project proponent shall not encroach revenue rasta and shall not cross internal roads over revenue rasta.

Response: We shall comply to the above conditions.

- xxxix. The project proponent shall not raise any construction activity in the ROW reserved/acquired for High Tension Wire passing through the project area and shall maintain horizontal and vertical ROQ as required under Indian Electricity Rules, 1956/DUBVN latest instructions.

Response: The same is incorporated in the Plans and Planning is been done accordingly. Horizontal and vertical ROQ is maintained for high Tension wire.

- xl. The project proponent shall make provision for infrastructure services (water supply, sewer, storm water lines etc.) to accommodate the additional load rising from population residing in others lands falling within the project limits/vicinity.

Response: We shall adhere to the above.

- xli. The project proponent shall implement the services line plan as submitted vide letter dated 29.04.2014.

Response: We shall implement the plan submitted to SEIAA and the developmental Plan is to be made accordingly.

- xlii. The project proponent shall provide green belt in the project area as per the revised green belt development plan submitted on 09.05.2014.

Response: We shall comply with the details as is provided in the plan.

- xliii. The project proponent shall discharge excess of sewage and storm water in to infrastructure system of HUDA irrigation after taking specific approvals.

Response: We shall adhere to the above conditions.

Part B- GENERAL CONDITIONS:

- i) 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, the most environmentally friendly commitment on the point shall be taken as commitment by project proponent.

Response: We shall adhere to the above. The proposed project is to be developed as per the details submitted in Form 1, 1A, EIA/EMP and other documents submitted to SEIAA for the grant of Environmental Clearance for the project.

- ii) The project proponent shall also submit six monthly reports on the status of compliances of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the northern Regional office of MoEF, the respective zonal office of CPCB, HSPCB and SEIAA, Haryana.

Response: Regular six monthly compliances due in June and Dec. of every year would be submitted to the Regional Office, MoEF (Northern Region) and SEIAA (Haryana) and HSPCB, Haryana. First compliance for the proposed is herewith submitted and is enclosed.

- iii) STP outlet after stabilization and stack emission shall be monitored monthly. Other environmental parameters and green belt shall be monitored on quarterly basis. After every 3 (three) months, the project proponent shall conduct environmental audit and shall take corrective measures, if required without delay.

Response: Monitoring for the STP would be done regularly for the proper functioning and maintenance of the STP.

- iv) The SEIAA, Haryana reserves the right to add additional safeguard measures subsequently, if found necessary, Environmental Clearance granted will be revoked if it is found that false information has been given for getting approval of this project. SEIAA reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of SEIAA/MoEF.

Response: We are agreed to the above.

- v) The project proponent shall not violate any judicial orders/pronouncements issued by the court/tribunal.

Response: We are agreed to the above.

- vi) All other statutory clearances such as approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and wildlife (Protection) Act, 1972, Forest Act, 1927, PLPA 1900 etc. shall be obtained, as applicable by project proponent from the respective authorities prior to construction of the project.

Response: Approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, and wildlife (Protection) Act, 1972, Forest Act, 1927, PLPA 1900 is not applicable for the project. Forest NOC is obtained from Forest department. Copy enclosed.

- vii) The project proponent should inform the public that the project has been accorded Environmental Clearance by the SEIAA and copies of Clearance letter are available with Haryana State Pollution Control Board & SEIAA. This should be advertised within 7 days from the date of issue of clearance letter at least in two local newspaper that are widely circulated in the region and the copy of the same should be forwarded to SEIAA Haryana. A copy of Environmental Clearance conditions shall also be put on project proponent's website for public awareness.

Response: We have published the same in two newspaper (The Tribune, Dainik Tribune) Copy of notice issued is enclosed as Annexure-5.

- viii) Under the provisions of Environmental (Protection) Act, 1986, legal actions shall be intimated against the Project Proponent if it was found that construction of the project has been started before obtaining prior Environmental Clearance.

Response : We have adhered to the above. We started the developmental work after we have been granted EC from SEIAA, Haryana.

- ix) Any appeal against this Environmental Clearance 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.

Response: No objection on the above conditions.

- x) The project proponent shall put in place Corporate Environment Policy as mentioned in MoEF, GOI OM No. J-11014/41/2006-IA II(I) dated 26.04.2012 within 3 months period. Latest Corporate Environmental Policy should be submitted within 3 months of issuance of this letter.

Response: We have submitted the same.

- xi) The fund ear-marked for environment protection measures should be kept at account and should not be diverted for other purposes and year wise expenditure shall be reported to the SEIAA/RO MoEF, GOI under rules prescribed for Environment Audit.

Response: We shall adhere to the above

- xii) The project proponent shall ensure the compliance of Forest department, Haryana Notification no. S.O. 121/PA2/1900/S4/97 dated 28.11.1997.

Response: We shall ensure for the above compliance.

- xiii) The project proponent shall ensure that no vehicle during construction/operation phase shall enter the project premises without valid "Pollution under Control" certificate from competent Authority.

Response: We shall adhere to the above.

- xiv) The project proponent is responsible for compliance of all conditions in Environmental Clearance letter and project proponent cannot absolve himself/herself of the responsibility by shifting it to any contractor engaged by project proponent.

Response: We adhere to the above and will be complying to the conditions in the Environmental Clearance.

- xv) The project proponent shall seek Environmental Clearance if at any stage there is a change in Planning of the proposed project.

Response: We shall adhere to the above in case any change is proposed in the project.

- xvi) Besides developer/applicant, the responsibility to ensure the compliance of Environmental Safeguards/conditions imposed in Environmental Clearance letter shall also lie on the Licensee/Licensees in whose name/names the license/CLU has been granted by the Town & Country Planning Department, Haryana.

Response: We shall adhere to the above.

- xvii) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB of CPCB and SPCB. The criteria pollutant levels namely PM2.5, PM10, SOx, Nox, Ozone, Lead, CO, Benzene, Ammonia, Benzopyrine, arsenic and nickel. (Ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

Response: We shall be regularly submitting the six monthly compliance due in June & Dec. of every year along with the monitoring reports. We are herewith submitting the compliance report due in Dec.2014.

- xviii) The environmental Statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the HSPCB Panchkula as prescribed under the Environmental (Protection) Rules,1986 as amended 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 Regional Offices of MoEF by e-mail.

Response: We shall submit the Environmental Statement in Form-V by March 2015 and have ensure that gets submitted every form for the concerned project.

- xix) The project proponent shall conduct environment audit at every three months interval and thereafter corrected measures shall be taken without any delay. Details of environmental audit and corrective measures shall be submitted in the monitoring report.

Response: The same should be taken into action.

Thanking you,

Yours Sincerely,

For Parsvnath Developers Ltd



Authorized signatory

OFFICE OF THE EXECUTIVE ENGINEER, HUDA DIVISION, KARNAL

To

The Vice president
Parsvnath Devloper Ltd
Delhi

Memo No. *24392* Dated- *10/10/13*

Subject:- provisioning of Domestic Water supply at our "Parsvnath City" sector-35, Karnal

Kindly refer to your office No. 1269 dated 08.10.2013 on the subject cited above.

In this regard, it is intimated that HUDA will provide external services such as water supply, sewerage, storm water drainage etc. & master roads in sector-35 after the execution/laying of external infrastructures as per EDC norms

W-
Executive Engineer,
HUDA Division Karnal
dated

Endst. No.

A copy of the above is forwarded to the Superintending Engineer HUDA Circle Karnal for Information please.

/
**Executive Engineer,
HUDA Division Karnal**



Parsvnath Developers Ltd.

Committed to build a better world

AN ISO 9001, 14001 & OHSAS 18001 CERTIFIED COMPANY

No.: PDL/AVP (Services)/Projects/2013

Date: Nov 13, 2012

The S.D.O,
DHBVN,
KARNAL.

**Subject: For approval of Electrical Plans & Scheme at Parsvnath City
Karnal measuring 50.56 Acres.**

Dear Sir,

We are submitting the Electrical Scheme for Electrical load 7.4 MVA of Parsvnath City at Karnal with the following documents for your approval please.

1. Project details of 50.56 Acres Electrical Scheme.
2. Copy of Licenses No. 73 dated 12.7.2012.
3. Undertaking duly attested.
4. Copy of Board resolution duly attested.
5. Single line diagram of Power distribution system.
6. Electrical Layout.
7. Copy of approved demarcation Plan.
8. Memorandum of articles & association

You are requested to kindly expedite the approval at the earliest.

Thanking you.

Yours faithfully

For Parsvnath Developers Ltd.

(V. K. Bassi)

Addl. V.P. (Services)

Encl.: As above

Corporate Office: 6th Floor, Arunachal Building, 19, Barakhamba Road, New Delhi-110 001

Ph. : +91-11-43686600, +91-11-43684800 Fax: +91-11-26113400 E-mail : mail@parsvnath.com, Visit us at: www.parsvnath.com

Regd. Office : Parsvnath Metro Tower, Near Shahdara Metro Station, Sha. Jara, Delhi - 110032 Ph. : +91-11-43050100, +91-11-43010500 Fax: +91-11-43050473
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resign from the party posts after the party's defeat in the elections, Chief Minister Bhupinder Singh Hooda should have also done so after the par-

dent Rajnath Singh. "People with selfish political motives had spread such baseless rumours," he alleged.

supporters.

He alleged that Hooda had taken care of the interests of only one district in the state.

as metro services from Delhi to Gurgaon were available. For the time being, the Alwar corridor could be terminated at the Delhi border in Gurgaon, the LG said.

The alignment for the 111-kilometre Delhi-Panipat, 180-kilometre Delhi-Alwar and 90-kilometre Delhi-Meerut corridors had been finalised. The total length of the three corridors would be 349 kilometres as the Delhi-Alwar corridor would terminate at the Delhi border in Gurgaon.

PUBLIC NOTICE

M/s. Parsvnath Developers Limited is pleased to inform that the Environmental Clearance has been accorded for "Parsvnath City" at sector 35 Kasba Karnal, from SEIAA: Haryana vide letter No. SEIAA/HR/2014/748 dated 29.05.2014.

The copies of the clearance letter are available with the office of State Environment Impact Assessment Authority, Haryana and Haryana State Pollution Control Board.

Dated: 12.06.2014

Parsvnath Developers Ltd.

Rashmi Jha
(Manager)

Mentally

जन-सूचना

मैसर्स पार्श्वनाथ डेवलपर्स लिमिटेड प्रसन्नता पूर्वक सूचित करते हैं कि पार्श्वनाथ सिटी सेक्टर -35 कस्बा करनाल को स्टेट एनवायरनमेंट इम्पैक्ट असेसमेंट अथॉरिटी, हरियाणा द्वारा एनवायरनमेंट क्लीयरेंस दिया गया है।
पत्र संख्या SEIAA/HR/2014/748 दिनांक 29.05.2014 द्वारा क्लीयरेंस पत्र की प्रतिलिपि स्टेट एनवायरनमेंट इम्पैक्ट असेसमेंट अथॉरिटी, हरियाणा एवम राज्य प्रदूषण नियंत्रण परिषद में उपलब्ध है।

तारीख :-12.06.2014

पार्श्वनाथ डेवलपर्स लिमिटेड
रविम झा
(प्रबंधक)

विकास। प्रतिलिपि
दुर्भेद को हटाकर टर्नोमेंट पर कब्जा
फाईनल खेला गया। जिसमें बरसाना ने
किया गया। आज प्रतियोगिता का
अंतिम फिफ्ट टर्नोमेंट का अंतिम
गांव दुर्भेद में युवा क्रिकेट क्लब द्वारा
दुर्भेद, 12 जून (बिस्)

बरसाना का क्रिकेट टर्नोमेंट पर कब्जा

गया निवासी 4/4/4. राम नगर
मै, अरका रानी पत्नी यशोधर
ए-20404बी
कुमार रहता है। कथना नोट करें।
का नाम बदलकर यश बंसल पुत्र राम
नाबालिका पुत्र यशपाल पुत्र राम कुमार
बिलासपुर, जिला यमुनानगर, अपने
निवासी गांव बिलासपुर, रहस्योल
मै, राम कुमार पुत्र मोहन लाल
किया जाए। एनए-22253बी
से लच्छमी निवासी है, जिसकी सही
रिपोर्ट बरसाना में भेज नाम गलती
दिमागी घोषित करती है कि पंचायत
जारी, उपरहसोल भामी, जिला

98761-63055, 98554-63055
A4-203788
Chandigarh
Near Labour Chowk,
SCO 19, Sector 20-D,
Vidya Jyoti Institutions
India & Abroad
MNC's In
Available
HOTEL
With
Best Placements
AVIATION/CATERING
HOTEL MANAGEMENT
B.EH | M.ED

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

No. SEIAA/HR/2014 / 748

Dated: 29-05-2014

To

M/S Parsvnath Developers Ltd.
 Regd. Office: Arunachal Bhawan,
 6th floor, 19, Barakhamba Road
 New Delhi.

Subject: Environment Clearance for proposed Parsvnath City located at Kasba Karnal, Sector-35, Karnal, Haryana.

Dear Sir,

This letter is in reference to your application no. PDL/Strategic Planning/EIA/2443 dated 23.04.2012 addressed to M.S. SEIAA, Haryana received on 30.04.2012 and subsequent letters dated 17.02.2012, 22.11.2012, seeking prior Environmental Clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., Form-1, Form1-A, Conceptual Plan, EIA/EMP on the basis of approved TOR and additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC) constituted by MOEF, GOI vide their Notification 23.3.2012, in its meetings held on 31.05.2012, 08.08.2012 and 29.01.2013 awarded "Gold" grading to the project.

[2] It is inter-alia, noted that the project involves the construction of Residential Plotted Colony at Kasba Karnal, Sector-35, Karnal, Haryana on a plot area of 204625.25 sqmt (Misc area 9975.5 sqmt, area under plots 94649.77 sqmt, area under 2 Nursing home 2104.36 sqmt, area under commercial 7782.1 sqmt, area under Nursery School 809.37 sqmt and area under primary School 4046.86 sqmt). The total built up area shall be 155875.90 sqmt. The project shall comprise of 366 residential plots & 92 EWS plots with facilities like Primary School, Nursery School, 2 Nursing Homes, Commercial area and Taxi Stand. The total water requirement shall be 1202 KLD. The fresh water requirement shall be 607 KLD. The waste water generation shall be 745 KLD, which will be treated in the STP of 900 KLD capacity. The total power requirement shall be 7400 KVA which will be supplied by UHBVN. The Project Proponent has proposed to develop green belt on 33% of project area (23% tree plantation + 10% landscaping). The Project Proponent proposed to construct 18 rain water harvesting pits. The solid waste generation will be 3646 kg/day. The bio-degradable waste will be treated in the project area by adopting appropriate technology. The total parking spaces proposed are 410 ECS.

[3] The State Expert Appraisal Committee, Haryana after due consideration of the relevant documents submitted by the project proponent and additional clarification

furnished in response to its observations, have recommended the grant of environmental clearance for the project mentioned above, subject to compliance with the stipulated conditions. Accordingly, the State Environment Impact Assessment Authority in its meeting held on 09.05.2014 decided to agree with the recommendations of SEAC to accord necessary environmental clearance for the project under Category 8(b) of EIA Notification 2006 subject to the strict compliance with the specific and general conditions mentioned below:-

PART A-
SPECIFIC CONDITIONS:-

Construction Phase:-

- [1] "Consent for Establish" shall be obtained from Haryana State Pollution Control Board under Air and Water Act and a copy shall be submitted to the SEIAA, Haryana before the start of any construction work at site.
- [2] A first aid room as proposed in the project report shall be provided both during construction and operational phase of the project.
- [3] Adequate drinking water and sanitary facilities shall be provided for construction workers at the site. Provision should be made for mobile toilets. Open defecation by the laboures is strictly prohibited. The safe disposal of waste water and solid wastes generated during the construction phase should be ensured.
- [4] All the topsoil excavated during construction activities shall be stored for use in horticulture/landscape development within the project site.
- [5] The project proponent shall ensure that the building material required during construction phase is properly stored within the project area and disposal of construction waste should not create any adverse effect on the neighboring communities and should be disposed of after taking necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- [6] Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such 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 per applicable rules and norms with necessary approval of the Haryana State Pollution Control Board.
- [7] The diesel generator sets to be used during construction phase shall be of ultra low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.
- [8] The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.

- [9] Ambient noise levels shall conform to the residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be taken to reduce ambient air pollution and noise level during construction phase, so as to conform to the stipulated residential standards of CPCB/MoEF.
- [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.
- [11] Storm water control and its re-use as per CGWB and BIS standards for various applications should be ensured.
- [12] Water demand during construction shall be reduced by use of pre-mixed concrete, curing agents and other best practices.
- [13] Roof must meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material.
- [14] Opaque wall must meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all air conditioned spaces while it is desirable for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.
- [15] The approval of the competent authority shall be obtained for structural safety of the building on account of earthquake, adequacy of fire fighting equipments, etc. as per National Building Code including protection measures from lightning etc. If any 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 proposal shall construct 18 nos. rain water harvesting pits for recharging the ground water within the project premises. Rain water harvesting pits shall be designed to make provisions for silting chamber and removal of floating matter before entering harvesting pit. Maintenance budget and persons responsible for maintenance must be provided. Care shall also be taken that contaminated water do not enter any RWH pit.
- [17] The project proponent shall provide for adequate fire safety measures and equipments as required by Haryana Fire Service Act, 2009 and instructions issued by the local Authority/Directorate of fire from time to time. Further the project proponent shall take necessary permission regarding fire safety scheme/NOC from competent Authority as required.
- [18] The Project Proponent shall obtain assurance from the UHBVN for supply of 7400 KVA of power supply before the start of construction. In no case project will be operational solely on generators without any power supply from any external power utility.

- [19] Detail calculation of power load and ultimate power load of the project shall be submitted to UHBVN under intimation to SEIAA Haryana before the start of construction. Provisions shall be made for electrical infrastructure in the project area.
- [20] The Project Proponent shall not raise any construction in the natural land depression / Nallah/water course and shall ensure that the natural flow from the Nallah/water course is not obstructed.
- [21] The Project Proponent shall keep the plinth level of the building blocks 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.
- [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] The Project Proponent shall submit an affidavit with the declaration that ground water will not be used for construction and only treated water should be used for construction.
- [24] The project proponent shall not cut any existing tree and project landscaping plan should be modified to include those trees in green area.
- [25] The project proponent shall ensure that ECBC norms for composite climate zone are met. In particular building envelope, HVAC service, water heating, pumping, lighting and electrical infrastructure must meet ECBC norms.
- [26] The Project Proponent shall provide 3 meter high barricade around the project area, dust screen for every floor above the ground, proper sprinkling and covering of stored material to restrict dust and air pollution during construction.
- [27] The project proponent shall construct a sedimentation basin in the lower level of the project site to trap pollutant and other wastes during rains.
- [28] The project proponent shall provide proper rasta of proper width and proper strength for the project before the start of construction.
- [29] The project proponent shall ensure that the U-value of the glass is less than 3.177 and maximum solar heat gain co-efficient is 0.25 for vertical fenestration.
- [30] The project proponent shall adequately control construction dusts like silica dust, non-silica dust and wood dust. Such dusts shall not spread outside project premises. Project Proponent shall provide respiratory protective equipment to all construction workers.
- [31] The project proponent shall provide fire control room and fire officer for building above 30 meter as per National Building Code.
- [32] The project proponent shall obtain permission of Mines and Geology Department for excavation of soil before the start of construction.

- [33] The project proponent shall seek specific prior approval from concerned local Authority/HUDA regarding provision of storm drainage and sewerage system including their integration with external services of HUDA/ Local authorities beside other required services before taking up any construction activity.
- [34] The site for solid waste management plant be earmarked on the layout plan and the detailed project for setting up the solid waste management plant shall be submitted to the Authority within one month.
- [35] 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.
- [36] The project proponent shall ensure that structural stability to withstand earthquake of magnitude 8.5 on Richter scale.
- [37] The project proponent shall ensure that no construction activity is undertaken either on surface or below or above surface of revenue rasta passing through the project area.
- [38] The project proponent shall indicate the width and length of revenue rasta passing through the project area on sign board and shall display the same at both the ends of revenue rasta stretch, for awareness of public. Sign board shall also display the message that this is public rasta/road and any citizen can use it. There shall not be any gate with or without guards on revenue rasta further project proponent shall not encroach revenue rasta and shall not cross internal roads over revenue rasta.
- [39] The project proponent shall not raise any construction activity in the ROW reserved/acquired for High Tension Wire passing through the project area and shall maintain horizontal and vertical ROW as required under Indian Electricity Rules, 1956/DHBVN latest instructions.
- [40] The project proponent shall make provision for infrastructure services (water supply, sewer, storm water lines etc.) to accommodate the additional load rising from population residing in others lands falling within the project limits/vicinity.
- [41] The project proponent shall implement the services line plan as submitted vide letter dated 29.04.2014.
- [42] The project proponent shall provide green belt in the project area as per the revised green belt development plan submitted on 09.05.2014.
- [43] The project proponent shall discharge excess of sewage and storm water in to infrastructure system of HUDA /Irrigation after taking specific approvals.

Operational Phase:

- [a] "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, Haryana.

- [b]** The Sewage Treatment Plant (STP) shall be installed for the treatment of the sewage to the prescribed standards including odour and treated effluent will be recycled to achieve zero exit discharge. The installation of STP shall be certified by an independent expert and a report in this regard shall be submitted to the SEIAA, Haryana before the project is commissioned for operation. Tertiary treatment of waste water is mandatory. The project proponent shall remove not only Ortho-Phosphorus but total Phosphorus to the extent of less than 2mg/liter. Similarly total Nitrogen level shall be less than 2mg/liter in tertiary treated waste water. Discharge of treated sewage shall conform to the norms and standards of CPCB/ HSPCB, whichever is environmentally better. Project Proponent shall implement such STP technology which does not require filter backwash.
- [c]** Separation of the grey and black water should be done by the use of dual plumbing line. Treatment of 100% grey water by decentralized treatment should be done ensuring that the re-circulated water should have BOD level less than 5 mg/litre and the recycled water will be used for flushing, gardening and DG set cooling etc.
- [d]** For disinfection of the treated wastewater ultra-violet radiation or ozonization process should be used.
- [e]** Diesel power generating sets proposed as source of back-up power for lifts, common area illumination and for domestic use should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The location of the DG sets shall be in the basement as promised by the project proponent with appropriate stack height above the highest roof level of the project as per the CPCB norms. The diesel used for DG sets shall be ultra low sulphur diesel (35 ppm sulphur), instead of low sulphur diesel.
- [f]** Ambient Noise level should be controlled to ensure that it does not exceed the prescribed standards both within and at the boundary of the Proposed Commercial Complex project.
- [g]** The project proponent as stated in the proposal shall maintain at least 33% as green cover area for tree plantation especially all around the periphery of the project and on the road sides preferably with local species which can provide protection against noise and suspended particulate matter. The open spaces inside the project shall be preferably landscaped and covered with vegetation/grass, herbs & shrubs. Only locally available plant species shall be used.
- [h]** The project proponent shall strive to minimize water in irrigation of landscape by minimizing grass area, using native variety, xeriscaping and mulching, utilizing efficient irrigation system, scheduling irrigation only after checking evapo-transpiration data.

- [i] Rain water harvesting for roof run-off and surface run-off, as per plan submitted should be implemented. Before recharging the surface run off, pre- treatment through sedimentation tanks must be done to remove suspended matter, oil and grease. The bore well for rainwater recharging shall be kept at least 5 mts. above the highest ground water table. Care shall be taken that contaminated water do not enter any RWH pit. The project proponent shall avoid Rain Water Harvesting of first 10 minutes of rain fall. Roof top of the building shall be without any toxic material or paint which can contaminate rain water. Wire mess and filters should be used wherever required.
- [j] The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.
- [k] A report on the energy conservation measures conforming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, R & U Factors etc and submitted to the SEIAA, Haryana in three months time.
- [l] Energy conservation measures like installation of LED only for lighting the areas outside the building and inside the building should be integral part of the project design and should be in place before project commissioning. Use of solar panels must be adapted to the maximum energy conservation.
- [m] The Project Proponent shall use zero ozone depleting potential material in insulation, refrigeration, air-conditioning and adhesive. Project Proponent shall also provide halon free fire suppression system.
- [n] The solid waste generated should be properly collected and segregated as per the requirement of the MSW Rules, 2000 and as amended from time to time. The bio-degradable waste should be treated by appropriate technology at the site ear-marked within the project area and dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.
- [o] The provision of the solar water heating system shall be as per norms specified by HAREDA and shall be made operational in each building block.
- [p] The traffic plan and the parking plan proposed by the Project Proponent should be meticulously adhered to with further scope of additional parking for future requirement. There should be no traffic congestion near the entry and exit points from the roads adjoining the proposed project site. Parking should be fully internalized and no public space should be used.
- [q] The Project shall be operationalized only when HUDA/local authority will provide domestic water supply system in the area.

- [r] Operation and maintenance of STP, solid waste management and electrical Infrastructure, pollution control measures shall be ensured even after the completion of project.
- [s] Different type of wastes should be disposed off as per provisions of municipal solid waste, biomedical waste, hazardous waste, e-waste, batteries & plastic rules made under Environment Protection Act, 1986. Particularly E-waste and Battery waste shall be disposed of as per existing E-waste Management Rules 2011 and Batteries Management Rules 2001. The project proponent should maintain a collection center for E-waste and it shall be disposed of to only registered and authorized dismantler / recycler.
- [t] Standards for discharge of environmental pollutants as enshrined in various schedules of rule 3 of Environment Protection Rule 1986 shall be strictly complied with.
- [u] The project proponent shall make provision for guard pond and other provisions for safety against failure in the operation of wastewater treatment facilities. The project proponent shall also identify acceptable outfall for treated effluent.
- [v] The project proponent shall ensure that the stack height of DG sets is as per the CPCB guide lines and also ensure that the emission standards of noise and air are within the CPCB latest prescribed limits. Noise and Emission level of DG sets greater than 800 KVA shall be as per CPCB latest standards for high capacity DG sets.
- [w] All electric supply exceeding 100 amp, 3 phase shall maintain the power factor between 0.98 lag to 1 at the point of connection.
- [x] The project proponent shall minimize heat island effect through shading and reflective or pervious surface instead of hard surface.
- [y] The project proponent shall not use fresh water for HVAC and DG cooling. Air based HVAC system should be adopted and only treated water shall be used by project proponent for cooling, if it is at all needed. The Project Proponent shall also use evaporative cooling technology and double stage cooling system for HVAC in order to reduce water consumption. Further temperature, relative humidity during summer and winter seasons should be kept at optimal level. Variable speed drive, best Co-efficient of Performance (CoP), as well as optimal Integrated Point Load Value and minimum outside fresh air supply may be resorted for conservation of power and water. Coil type cooling DG Sets shall be used for saving cooling water consumption for water cooled DG Sets.
- [z] The project proponent shall ensure that the transformer is constructed with high quality grain oriented, low loss silicon steel and virgin electrolyte grade copper. The project proponent shall obtain manufacturer's certificate also for that.

- [aa] Water supply shall be metered among different users and different utilities.
- [ab] The project proponent shall ensure that exit velocity from the stack should be sufficiently high. Stack shall be designed in such a way that there is no stack down-wash under any meteorological conditions.
- [ac] The project proponent shall provide water sprinkling system in the project area to suppress the dust in addition to the already suggested mitigation measures in the Air Environment Chapter of EMP.
- [ad] The project proponent shall provide additional green area on terrace and roof top.
- [ae] The project proponent shall ensure proper Air Ventilation and light system in the basements area for comfortable living of human being and shall ensure that number of Air Changes per hour/(ACH) in basement never falls below 15. In case of emergency capacity for increasing ACH to the extent of 30 must be provided by the project proponent.
- [af] The project proponent shall install solar panel for energy conservation.

PART-B. GENERAL CONDITIONS:

- [i] 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, the most environmentally friendly commitment on the point shall be taken as commitment by project proponent.
- [ii] The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the northern Regional Office of MoEF, the respective Zonal Office of CPCB, HSPCB and SEIAA Haryana.
- [iii] STP outlet after stabilization and stack emission shall be monitored monthly. Other environmental parameters and green belt shall be monitored on quarterly basis. After every 3 (three) months, the project proponent shall conduct environmental audit and shall take corrective measure, if required, without delay.
- [iv] The SEIAA, Haryana reserves the right to add additional safeguard measures subsequently, if found necessary. Environmental Clearance granted will be revoked if it is found that false information has been given for getting approval of this project. SEIAA reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of SEIAA/MoEF.
- [v] The Project proponent shall not violate any judicial orders/pronouncements issued by any Court/Tribunal.
- [vi] All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department,

Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972, Forest Act, 1927, PLPA 1900, etc. shall be obtained, as applicable by project proponents from the respective authorities prior to construction of the project.

- [vii] The Project proponent should inform the public that the project has been accorded Environment Clearance by the SEIAA and copies of the clearance letter are available with the Haryana State Pollution Control Board & SEIAA. This should be advertised within 7 days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region and the copy of the same should be forwarded to SEIAA Haryana. A copy of Environment Clearance conditions shall also be put on project proponent's web site for public awareness.
- [viii] Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the Project Proponent if it was found that construction of the project has been started before obtaining prior Environmental Clearance.
- [ix] Any appeal against the this Environmental Clearance 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.
- [x] The project proponent shall put in place Corporate Environment Policy as mentioned in MoEF, GoI OM No. J-11013/41/2006-IA II (I) dated 26.4.2012 within 3 months period. Latest Corporate Environment Policy should be submitted to SEIAA within 3 months of issuance of this letter.
- [xi] 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 expenditure shall be reported to the SEIAA/RO MoEF, GoI under rules prescribed for Environment Audit.
- [xii] 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.
- [xiii] The Project Proponent shall ensure that no vehicle during construction/operation phase enter the project premises without valid 'Pollution Under Control' certificate from competent Authority.
- [xiv] The project proponent is responsible for compliance of all conditions in Environmental Clearance letter and project proponent can not absolve himself /herself of the responsibility by shifting it to any contractor engaged by project proponent.
- [xv] 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 Environmental Safeguards/ conditions imposed in the Environmental Clearance letter shall also lie on the licensee/licensees in whose name/names the

license/CLU has been granted by the Town & Country Planning Department, Haryana.

[xviii] The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM_{2.5}, PM₁₀, SO_x, NO_x, Ozone, Lead, CO, Benzene, Ammonia, Benzopyrine, arsenic and Nickel. (Ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

[xviii] The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the HSPCB Panchkula as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of the EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

[xix] The project proponent shall conduct environment audit at every three months interval and thereafter corrected measures shall be taken without any delay. Details of environmental audit and corrective measures shall be submitted in the monitoring report.



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



Endst. No. SEIAA/HR/2014

Dated:.....

A copy of the above is forwarded to the following:

1. The Additional Director (IA Division), MOEF, GOI, CGO Complex, Lodhi Road, New Delhi.
2. The Regional office, Ministry of Environment & Forests, Govt. of India, Sector 31, Chandigarh.
3. The Chairman, Haryana State Pollution Control Board, Pkl.



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



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TEST REPORT

Ambient Air Quality Monitoring

Test Report No. : EK0/EV-AA/124/211114 **Issue Date** 26/11/2014
Issued To PARSVNATH DEVELOPERS LIMITED
6th FLOOR, ARUNANCHAL BUILDING
19, BARAKHAMBA ROAD, NEW DELHI
Proj. Name- Parasvnath City Karnal
Sector - 35, Kasba Karnal, Karnal

Sample Description Ambient Air
Sample Drawn on 19/11/2014 To 20/11/2014
Sample Drawn by EPEPL(Mr. Mukul Kumar)
Sample Received on 21/11/2014
Sampling Location On Project Site
Sampling Plan & Procedure SOP-AAQ/15
Analysis Duration 21/11/2014 To 25/11/2014
Sampling Time 24.0 Hrs.
Ambient Temperature (°C) 24.0
Average Flow Rate of SPM (m³/min) 1.1
Average Flow Rate of Gases (lpm.) 1.0
Weather Conditions Clear
Remark (if any) NA

RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	Particulate Matter (PM10)	IS:5182 (P-23)	76.4	µg/m ³
2	Particulate Matter (PM2.5)	SOP-AAQ/89/01	40.7	µg/m ³
3	Sulphur dioxide (as SO ₂)	IS:5182 (P-2) Improved West & Geake	13.1	µg/m ³
4	Nitrogen Dioxide (as NO ₂)	IS:5182 (P-6)	29.5	µg/m ³
5	Carbon Monoxide (as CO)	IS:5182 (P-10) Grab Method	<1.15	mg/m ³
6	Lead (as Pb)	IS:5182 (P-22)	<0.1	µg/m ³
7	Nickel as Ni	SOP-AAQ/89/02	<15.0	ng/m ³
8	Arsenic (as As)	SOP-AAQ/89/03	<5.0	ng/m ³
9	Ozone (as O ₃)	IS:5182 (P-9) Chemical Method	<10.0	µg/m ³
10	Ammonia (as NH ₃)	APHA--AIR Indophenol Blue Method	<20.0	µg/m ³
11	Benzene (as C ₆ H ₆)	IS:5182 (P-11)	<1.0	µg/m ³
12	Benzo (alpha) Pyrene-Particulate Phase only	IS:5182 (P-12)	<1.0	ng/m ³

For EKO PRO ENGINEERS PVT. LTD.

Authorized Signatory

EKO PRO



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Test Report No. : EK0/EV-AA/124/211114

Issue Date 26/11/2014

Notes :

****End of Report****

1. The results given above are related to the tested sample, as received & mentioned parameters.
The customer asked for the above tests only.
2. This test report will not be generated again, either wholly or in part, without written permission of the Laboratory.
3. This test report will not be use for any publicity/legal purpose.
4. This test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.
5. Responsibility of the Laboratory is limited to the invoiced amount only.

For EKO PRO ENGINEERS PVT. LTD



Authorized Signatory



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TEST REPORT**Soil Sample Analysis**

Test Report No. :	EK0/EV-S0/106/211114	Issue Date	26/11/2014
Issued To	PARSVNATH DEVELOPERS LIMITED 6th FLOOR, ARUNANCHAL BUILDING 19, BARAKHAMBA ROAD, NEW DELHI Proj. Name- Parasnath City Karnal Sector - 35, Kasba Karnal, Karnal		
Sample Description	Soil Sample		
Sample Drawn on	20/11/2014		
Sample Drawn by	EPEPL(Mr. Mukul Kumar)		
Sample Received on	21/11/2014		
Sampling Location	On Project Site		
Sampling Plan & Procedure	SOP-S/50		
Sample Quantity	500 gm		
Environmental Condition	Normal		
Analysis Duration	21/11/2014 To 25/11/2014		
Remark (if any)	NA		

RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH (1 : 2.5 Suspension)	IS : 2720 (P-26)	7.32	-
2	Conductivity (1:5 Susp.)	IS : 2720 (P-21)	702.0	µs/cm
3	Water Holding Capacity	SOP-S/92/21	43.8	% by mass
4	Bulk Density	SOP-S/92/12	1.22	gm/cc
5	Sodium Available (as Na)	Ministry of Agriculture Manual 2011	103.8	mg/kg
6	Potassium Available (as K)	Ministry of Agriculture Manual 2011	159.4	mg/kg
7	Organic Matter	IS : 2720 (P-22)	0.85	% by mass
8	Total Kjehldal Nitrogen	SOP-S/92/06	1368.2	mg/kg
9	Phosphorus (as P)	Ministry of Agriculture Manual 2011	62.4	mg/kg
10	Zinc (as Zn)	SOP-S/96/11	20.8	mg/kg
11	Lead (as Pb)	SOP-S/96/11	<1.0	mg/kg
12	Copper (as Cu)	SOP-S/96/11	<1.0	mg/kg
13	Cation Exchange Capacity	SOP-S/95/20	10.4	meq/100gm
14	Moisture content	IS : 2720 (P-2)	15.0	% by mass
15	Iron (as Fe)	SOP-S/96/11	0.097	% by mass



For EKO PRO ENGINEERS PVT. LTD.

Authorized Signatory



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(Analytical Division)

(An ISO 9001: 2008 Certified Company)

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Telefax : +91-120-2867931, 2867940, 9711159337, 9711159210, 9711163422

Test Report No. : EK0/EV-S0/106/211114

Issue Date 26/11/2014

Notes :

****End of Report****

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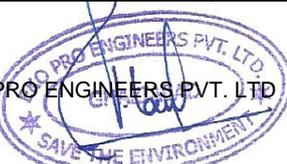
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TEST REPORT**Stack Emission Analysis**

Test Report No. :	EKO/EV-SE/105/211114	Issue Date	26/11/2014
Issued To	PARSVNATH DEVELOPERS LIMITED 6th FLOOR, ARUNANCHAL BUILDING 19, BARAKHAMBA ROAD, NEW DELHI Proj. Name- Parasvsnath City Karnal Sector - 35, Kasba Karnal, Karnal		
Sample Description	Stack Emission		
Sample Drawn on	20/11/2014		
Sample Drawn by	EPEPL(Mr. Mukul Kumar)		
Sample Received on	21/11/2014		
Time of Sampling (minutes)	30.0		
Sampling Location	NA		
Sampling Plan & Procedure	SOP-SE/09		
Analysis Duration	21/11/2014 To 25/11/2014		
Source of Emission	Stack Attached To DG Set		
Capacity	125 KVA		
Operating Load	Normal		
Normal Operation Schedule	As per requirement		
Type of Stack	Metal/Circular		
Diameter of Stack (meter)	0.1		
Height of Stack from Ground Level (meter)	3.0		
Height of Stack from Roof Level (meter)	-		
Height of Sampling Location (meter)	Sampling done from top of the stack		
Type of Fuel Used	HSD		
Fuel Consumed per Hour	12.0 lph		
Ambient Temperature (°C)	24.0		
Stack Temperature (°C)	115.0		
Average Velocity of Fuel Emission (m/sec)	10.8		
Average Flow Rate (lpm)	16.1		
Control Measures (if any)	Nil		
Remark (if any)	At the time of Sampling Temporary Platform Provided by the Customer		

RESULTS

S.No.	PARAMETER	Test Method	Result	Unit
1	Particulate Matter (as PM)	Gravimetric Method	24.8	mg/Nm ³
2	Sulphur Dioxide (as SO ₂)	Titrametric Method	12.1	mg/Nm ³
3	Carbon monoxide (as CO)	Orsat Method	<0.2	% V/V
4	Lead (as Pb)	ICP Method	<1.0	mg/Nm ³
5	Oxides of Nitrogen (as NO _x)	Spectrophotometric Method	65.8	mg/Nm ³

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SAVE THE ENVIRONMENT

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Test Report No. : EKO/EV-SE/105/211114

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TEST REPORT

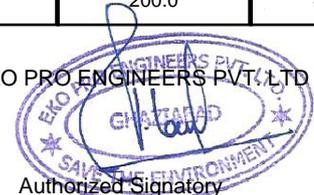
Water Sample Analysis

Test Report No. :	EK0/EV-WA/109/211114	Issue Date	26/11/2014
Issued To	PARSVNATH DEVELOPERS LIMITED 6th FLOOR, ARUNANCHAL BUILDING 19, BARAKHAMBA ROAD, NEW DELHI Proj. Name- Parasvnath City Karnal Sector - 35, Kasba Karnal, Karnal		
Sample Description	Ground Water		
Sample Drawn on	20/11/2014		
Sample Drawn by	EPEPL(Mr. Mukul Kumar)		
Sample Received on	21/11/2014		
Sampling Location	On Project Site		
Sampling Plan & Procedure	SOP-W/66		
Sample Quantity	5.0 Litre		
Environmental Condition	Normal		
Analysis Duration	21/11/2014 To 25/11/2014		
Remark (if any)	NA		

RESULTS

S.No.	PARAMETER	Test Methods	Result	Units	IS: 10500 : 2012 (Limits)	
					Acceptable	Permissible
1	Colour	IS : 3025 (P-4)	<5.0	Hazen	5.0	15.0
2	Odour	IS : 3025 (P-5)	Agreeable	-	Agreeable	Agreeable
3	Taste	IS : 3025 (P-7)	Agreeable	-	Agreeable	Agreeable
4	Turbidity	IS : 3025 (P-10)	<1.0	NTU	1.0	5.0
5	pH	IS : 3025 (P-11)	7.34	-	6.5-8.5	No relaxation
6	Total Hardness (as CaCO ₃)	IS : 3025 (P-21)	178.0	mg/L	200.0	600.0
7	Calcium (as Ca)	IS : 3025 (P-40)	54.8	mg/L	75.0	200.0
8	Iron (as Fe)	IS : 3025 (P-53)	0.18	mg/L	0.3	No relaxation
9	Chloride (as Cl)	IS : 3025 (P-32)	89.6	mg/L	250.0	1000.0
10	Residual Free Chlorine	IS : 3025 (P-26)	<0.2	mg/L	0.2	1.0
11	Fluoride (as F)	IS : 3025 (P-60)	<1.0	mg/L	1.0	1.5
12	Total Dissolved Solids	IS : 3025 (P-16)	486.0	mg/L	500.0	2000.0
13	Magnesium (as Mg)	IS : 3025 (P-46)	10.2	mg/L	30.0	100.0
14	Copper (as Cu)	IS : 3025 (P-42)	<0.01	mg/L	0.05	1.5
15	Manganese (as Mn)	IS : 3025 (P-59)	<0.1	mg/L	0.1	0.3
16	Sulphate (as SO ₄)	IS : 3025 (P-24)	38.4	mg/L	200.0	400.0

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Test Report No. : EK0/EV-WA/109/211114

Issue Date 26/11/2014

S.No.	PARAMETER	Test Methods	Result	Units	IS: 10500 : 2012 (Limits)	
					Acceptable	Permissible
17	Nitrate (as NO ₃)	IS : 3025 (P-34)	5.68	mg/L	45.0	No relaxation
18	Phenolic Compounds (as C ₆ H ₅ OH)	IS : 3025 (P-43)	<0.001	mg/L	0.001	0.002
19	Mercury (as Hg)	IS : 3025 (P-48)	<0.001	mg/L	0.001	No relaxation
20	Selenium (as Se)	IS : 3025 (P-56)	<0.005	mg/L	0.01	No relaxation
21	Arsenic (as As)	IS : 3025 (P-37)	<0.005	mg/L	0.01	0.05
22	Cyanide (as CN)	APHA 4500 CN-C	<0.05	mg/L	0.05	No relaxation
23	Lead (as Pb)	IS : 3025 (P-47)	<0.005	mg/L	0.01	No relaxation
24	Zinc (as Zn)	IS : 3025 (P-49)	<0.05	mg/L	5.0	15.0
25	Alkalinity (as CaCO ₃)	IS : 3025 (P-23)	216.0	mg/L	200.0	600.0
26	Chromium (as Cr+6)	IS : 3025 (P-52)	<0.05	mg/L	0.05	No relaxation
27	Aluminium (as Al)	IS : 3025 (P-55)	<0.01	mg/L	0.03	0.2
28	Boron (as B)	IS : 3025 (P-57)	<0.25	mg/L	0.5	1.0
29	Cadmium (as Cd)	IS : 3025 (P-41)	<0.001	mg/L	0.003	No relaxation
30	Anionic Detergents (as MBAS)	APHA 5540-C	<0.05	mg/L	0.2	1.0
31	Total Coliform	IS : 1622	Absent	Per 100 mL	Shall not be detectable in 100ml sample	-
32	E.coli	IS : 1622	Absent	Per 100 mL	Shall not be detectable in 100ml sample	-

End of Report

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