



भारत सरकार  
Government of India  
परमाणु ऊर्जा विभाग  
Department of Atomic Energy  
वैश्विक नाभिकीय ऊर्जा साझेदारी केन्द्र  
Global Centre for Nuclear Energy Partnership



Ref No.:GCNEP/2024/01-67

Date: 29.08.2024

To,

The Advisor,  
Ministry of Environment, Forest and Climate Change (Northern Region)  
Bays No: 24-25, Sector-31 A,  
Dakshin Marg, Chandigarh-160030

**Sub:** Half Yearly Compliance Report (Session: October 2023 to March 2024) of stipulated Environmental Conditions/ Safeguards in the Environmental Clearance Letter and Environmental Monitoring Report Expansion of Institutional Campus and Residential Township for Global Centre for Nuclear Energy Partnership (GCNEP) at Village- Kheri Jasaur and Jasaur Kheri, District- Jhajjar, Haryana by GCNEP

**Ref:** 1. Environmental Clearance No. SEIAA/HR/2018/231 dated 04.04.2018.  
2. F.NO: 16-89/2018 (ENV)/333 dated 14.05.2019

Dear Sir,

This has reference to the EC vide letter no. SEIAA/HR/2018/231 dated 04.04.2018. In this regard, we are submitting hereby compliance report of stipulated conditions mentioned in the EC for your kind perusal for **submission period of June 2024.**

In view of the above, information/documents are enclosed as follow

1. Point-wise compliance of the stipulated environmental condition/safeguards.
2. Environmental Quality Monitoring & Analysis Reports.
3. Supporting Documents

Thanking You,

Global Center for Nuclear Energy Partnership

(Authorized Signatory)

Name - Deep Prakash  
Designation - Project Director  
E-mail - pd@gcnep.gov.in  
Contact No. - 011-23014587

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा साझेदारी केन्द्र /  
Global Centre for Nuclear Energy Partnership  
पञ्चकुला, हरियाणा / Panchkula, Haryana  
बकसूरमंड (उत्तरिपार्श्व) / Backsura Mand (North Side)  
दूरभाष नं./ 011-23014587

Haryana State Pollution Control Board  
C-11, Sector 6, Panchkula

Copy to:

1. The Member Secretary Haryana State Pollution Control Board, Panchkula, Haryana.
2. The Member Secretary SEIAA, Bays no. 55-58, Parytan Bhawan, 1<sup>st</sup> Floor, Sector-2, Panchkula, Haryana

Project Directorate: GCNEP, 145A, South Block, New Delhi - 110011  
Site Address: GCNEP, Village Kheri Jasaur, Bahadurgarh, Haryana -124505

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भारत सरकार  
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Department of Atomic Energy  
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परियोजना निदेशक | Project Director  
ग्लोबल सेंटर फॉर न्यूक्लियर एनर्जी पार्टनरशिप  
Global Centre for Nuclear Energy Partnership  
पता: कृषि विभाग, बहादुरगढ़, हरियाणा - 124505  
बल्लभगढ़ (हरियाणा) | Ballabhgarh (Haryana) | Pin: 124505



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Helpline: Information, Suggestions and Feedback: helpline@gcnep.gov.in

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**Reg; Submission of Half -Yearly compliance for Environmental clearance for EXPANSION OF INSTITUTIONAL CAMPUS AND RESIDENTAIL TOWNSHIP FOR GLOBAL CENTER FOR NUCLEAR ENERGY PARTNERSHIP(GCNEP) AT VILLAGE-KHERI JASOUR AND JASOUR KHERI, DISTI.JHAJJAR, HARYANA for the period of June 2024**

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GCNEP Jhajjar <gcnepjhajjar@gmail.com>  
To: ecompliance-nro@gov.in

Mon, Sep 2, 2024 at 12:44 PM

Respected Sir,

Please find enclosed Half -Yearly compliance for Environmental clearance for EXPANSION OF INSTITUTIONAL CAMPUS AND RESIDENTAIL TOWNSHIP FOR GLOBAL CENTER FOR NUCLEAR ENERGY PARTNERSHIP(GCNEP) AT VILLAGE-KHERI JASOUR AND JASOUR KHERI, DISTI.JHAJJAR, HARYANA for the period of June 2024

Reference: 1. EC Granted vide letter no- SEIAA/HR/2018/231 dated 04.04.2018.  
2. [F.NO](#): 16-89/2018 (ENV)/333 dated 14.05.2019

Thanks & Regards

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 **Global Centre for Nuclear Energy Partnership.pdf**  
13829K



Ref No.:GCNEP/2024/01-67

Date: 12.08.2024

To,

The Advisor,  
Ministry of Environment, Forest and Climate Change (Northern Region)  
Bays No: 24-25, Sector-31 A,  
Dakshin Marg, Chandigarh-160030

**Sub:** Half Yearly Compliance Report (Session: October 2023 to March 2024) of stipulated Environmental Conditions/ Safeguards in the Environmental Clearance Letter and Environmental Monitoring Report Expansion of Institutional Campus and Residential Township for Global Centre for Nuclear Energy Partnership (GCNEP) at Village- Kheri Jasaur and Jasaur Kheri, District- Jhajjar, Haryana by GCNEP

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Designation - Project Director  
E-mail - pd@gcnepest.gov.in  
Contact No. - 011-23014587

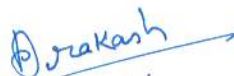
  
डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
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Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507

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HALF YEARLY COMPLIANCE OF STIPULATED  
ENVIRONMENTAL CONDITIONS  
AS PER THE ENVIRONMENTAL CLEARANCE  
LETTER NO. SEIAA/HR/2018/231  
DATED 4<sup>TH</sup> April 2018  
FOR  
EXPANSION OF INSTITUTIONAL CAMPUS  
AND RESIDENTIAL TOWNSHIP FOR  
GLOBAL CENTER FOR NUCLEAR ENERGY  
PARTNERSHIP (GCNEP) AT  
VILLAGE-KHERI JASOUR AND JASOUR KHERI,  
DISTT.JHAJJAR, HARYANA



डॉ. दीप प्रकाश / Dr. Deep Prakash

PART A- SPECIFIC CONDITION: CONSTRUCTION PHASE

**Condition 1: "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 the site.**

Reply: Consent to Establish has been obtained from Haryana State Pollution Control Board for "Consent to Establish" under Air and Water Act vide letter no. HSPCB/Consent/:329962318JHACTE55066 Dated 03.10.2018, copy of CTE is enclosed as **Annexure-I**. CTE extension has been obtained for the period from 03.10.18 to 03.04.2025.

**Condition-2: A first aid room as proposed in the project report shall be provided both during construction and operation phase of the project.**

Reply: Agreed. First Aid Room is provided at site by the Contractor. First Aid Facilities are available at DCS&EM Site Office. In case of Snake bite, the treatment can be availed from village hospital for which the facility is available at hospital. Emergency vehicles are available at site during working hours. We are doing routine medical check-up for the labors those who are working at the construction site. Photograph showing First Aid room is attached as **Annexure -II**

**Condition 3: Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. Open defecation by the labourers is strictly prohibited. The safe disposal of waste water and solid wastes generated during the construction phase should be ensured.**

Reply: Agreed. Adequate Drinking water facility is being provided at Labour Hutments. Sanitary arrangements are also provided at labour Hutment Area & Site Offices. The open defecation by the labour is strictly prohibited. The wastewater generated during construction phase is being sent to the septic tanks. Photographs showing drinking water facility, toilet and septic tank are attached as **Annexure-III**.

Left over cement and mortar, cement concrete blocks, aggregates, sand and other inorganic material are being recycled. Solid waste management plan is enclosed as **Annexure-IV**.

**Condition 4: All topsoil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.**

Reply: Agreed. Excavated topsoil is being preserved separately which is being used for landscaping. Small landscaping made in front of the office is made of topsoil of Guest House Building. Photographs showing the topsoil storage is enclosed as **Annexure-V**.

**Condition 5: The project proponent should ensure that the building material used in the construction phase should be stored within the project area and disposal of construction waste should not create**

*Prakash*



any adverse effect on the neighboring and should be disposed of after taking necessary precautions for general safety and health aspects of the people, only in the approved sites with the approval of competent authority.

Reply: Agreed. No significant muck excavation is being done at the project site, construction materials are being properly stored within project site. Cement Godown for Cement Storage is available. Store room at Township site is made. Store room at campus site is provided, and RMC plant with partition is also made. Photograph showing covered construction material enclosed as **Annexure-VI**.

**Condition-6: Construction spoils, including bituminous materials and other hazardous materials must not be allowed to contamination of watercourses and the dump site for such materials must be secured so that they should not leak into groundwater and any hazardous waste generated during construction phase should be disposed of as per applicable rules and norms with necessary approval of Haryana State Pollution Control Board.**

Reply: Agreed. Construction spoils such as bituminous material and other hazardous material are not allowed to contaminate water course, dumpsite is being provided inside the boundary of the project site. Hazardous waste generated during construction phase, is being disposed of as per applicable rules and norms.

**Condition 7: The diesel generator sets to be used during construction phase should be of ultra low Sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standard.**

Reply: Agreed. There is a provision of 5 No. of DG Sets of total 3000 KVA capacity (2x750 KVA) for institution campus and 4 no. of DG sets of total capacity 500 KVA (2x250 KVA) and (1x320 KVA) for residential township for power backup during Construction phase as well as Operation phase of the Project. DG sets has been equipped with acoustic enclosures to minimize noise generation and adequate stack height for proper dispersion. BS IV or better-quality fuel is being used. During construction phase DG sets are enclosed in acoustic enclosed installed on the Finn base to minimize vibration and noise. Results of environmental monitoring carried out attached as **Annexure VII**.

**Condition 8: The diesel required for operating DG sets shall be stored in underground tanks if required clearance from Chief Controller of Explosive shall be taken.**

Reply: Agreed.

**Condition 9: Ambient noise levels should confirm 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 and noise level during construction phase, so as to confirm stipulated residential standards of CPCB/MoEF.**

Reply: Agreed. Ambient noise level is monitored during day and night and is conforming to the standards. Adequate measures have been adopted to reduce ambient air quality pollution and noise level during construction phase.





**Condition 10: Fly ash shall be used as building materials in the construction as per the provision of Fly Ash Notification of September 1999 and amendment as on 27th August 2003.**

Reply: Fly ash based bricks are being used for construction of walls. All superstructure masonry works are being built using fly ash bricks. Photographs attached as **Annexure VIII**.

**Condition 11: Storm water control and its re-use as per CGWB and BIS standard for various applications should be ensured.**

Reply: Agreed. Standards of BIS and CGWB will be followed and water will be reused.

**Condition 12: Water demand during construction phase should be reduced by uses of pre-mixed concrete, curing agent and other best practices.**

Reply: Agreed and complied. RMC is being used for construction works. Photographs of batching plant enclosed as **Annexure IX**.

**Condition 13: Roof should meet prescribed requirements as per Energy Conservation Building Code by using appropriate thermal insulation material.**

Reply: Agreed. Insulation (50 mm thick Phenotherm board) is used as roof. Energy conservation details attached as **Annexure X**.

**Condition 14: Opaque wall should meet prescribed requirements 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 to fulfill the requirement.**

Reply: Agreed. Double walls are being constructed on all outer walls (230 mm+115 mm). Thermal insulation material is also provided between these walls.

**Condition 15: The approval of competent authority shall be obtained for structural safety of the building on account of earthquake, adequacy in firefighting equipment etc. as per National Building Code including protection measures for light etc. If any forest land is involved in the proposed site, clearance under Forest Conservation Act shall be obtained from competent Authority.**

Reply: Agreed. This is a project of Central Government, Department of Atomic Energy project. The project is conceived and detailed by in House designers, adhering to safety and design standards. No forest land is involved in the project. Forest NOC is attached as **Annexure-XI**.

**Condition 16: The project proponent as stated in the proposal shall construct 11 rainwater harvesting pits for recharging the ground water with in project premises. Rain water harvesting pits shall be designed to make provision for silting chamber and removal of floating matter before entering harvesting pit Maintenance budget and person responsible for maintenance must be provided. Care shall also be taken that contaminated water do not enter any RHW pit.**



Reply: We will construct 50 rainwater harvesting pits for reaching the ground water within the project premises. Rain water harvesting pits will be designed to make provisions for silting chamber and removal of floating matter before entering harvesting pits.

**Condition 17: The project proponent shall provide for adequate fire safety measures and equipment 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.**

Reply: Agreed. Fire doors are constructed at staircases, guest house corridor, electrical panel rooms and AHU Rooms. Smoke detector and wet risers with booster pumps and all firefighting accessories are available. Fire NOC attached as **Annexure XII**.

**Condition 18: The project proponent shall submit assurance from the HBVNL for supply of 6700 KVA (5000 KVA for Institute campus & 1700 KVA for Residential Township project) 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.**

Reply: Agreed. We have already obtained assurance from the UHBVNL for supply of 6700 KVA of power supply. Same is enclosed as **Annexure-XIII**.

**Condition 19: Detail calculation of power load and ultimate power load of the project shall be submitted to HBVNL under intimation to SEIAA Haryana before the start of the construction. Provisions shall be made for electrical infrastructure in the project area.**

Reply: Agreed. We have already obtained required permission from HBVNL for supply of 6700 KVA power load for the Institution campus and residential township project.

**Condition 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.**

Reply: Agreed. Irrigation channel is preserved by fencing works. Hume pipes are laid where ever is necessary. Village panchayat has taken to divert the drainage water from campus site. Additional storm water drain is constructed along the by-pass road at campus site.

**Condition 21: The Project Proponent shall keep the plinth level of the building blocks sufficiently above the level of the approach road to the Project as per prescribed by-laws. Levels of the other areas in the Projects shall also be kept suitably so as to avoid flooding.**

Reply: Agreed. Plinth levels are kept well above surrounding levels (+101.45m). Level of approach road is kept above the maximum water level during rainy season.

**Condition 22: Construction shall be carried out so that density of population does not exceed norms approved by Director General Town and country Department, Haryana.**



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वैश्विक नाभिकीय ऊर्जा साझेदारी केन्द्र (जी.सी.एन.ई.पी.)  
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बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507



Reply: Density of population will not exceed norms approved by Director General Town and Country Department Haryana due to construction of project.

**Condition 23: The project proponent shall submit an affidavit with the declaration that ground water will not be used for construction and only the treated water should be used for construction.**

Reply: No Borewell is dug at site for construction purpose. We are a government organization. We have submitted an undertaking stating that we will not use Ground water for construction, enclosed as **Annexure XIV**.

**Condition 24: The project proponent shall not cut any existing tree in the project area and project landscaping plan should be modified to include those trees in the green area**

Reply: Agreed. There is no requirement of cutting the trees. Only small bushes have been cleared for construction activity.

**Condition 25: The project 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 norm.**

Reply: Agreed. ECBC norms will be met. Building envelope, HVAC service, water heating, pumping, lighting electrical infrastructure will all be in energy efficient way and meet Energy conservation Building Code norms. LED/ CFL Fixture are used. Air conditions are working on R-410 A.

**Condition 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.**

Reply: Agreed. Masonry boundary wall is constructed all around the site and water sprinkling is being done to restrict dust and air pollution during construction. Photographs attached as **Annexure XV and XVI** respectively.

**Condition 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.**

Reply: Agreed. Sedimentation basin will be constructed.

**Condition 28: The project proponent shall provide Rasta of proper width and proper strength for each project before the start of construction.**

Reply: We have provide proper Rasta of proper width and proper strength for the project before the start of construction work at project site.

**Condition 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.**





Reply: Agreed. Hermetically sealed 38mm thick (12mm SGG cool lite platinum toughened glass + 18mm air gap+mm inner glass) with low U value glass for all structural glazing work is being used.

**Condition 30: The project proponent shall adequately control construction dust like silica dust, non-silica dust, and wood dust. Such dusts shall not spread outside the project premises. The project proponent shall provide respiratory protective equipment to all construction workers.**

Reply: Agreed. Proper measures are being taken to control dust on the site like water sprinkling, covering construction material vehicles, etc. Photographs of dust suppression enclosed as **Annexure XVI**. Site barricading is being done to prevent dust from spreading outside premises, photos enclosed as **Annexure XV**.

**Condition 31: The project proponent shall provide fire control room and fire officer for building above 30 meters as per National Building code.**

Reply: The height of institutional and residential building is G+2, The height of the building will not be raised above 30m.

**Condition 32: The project proponent shall obtain permission of Mines and Geology Department for excavation of soil before the start of construction.**

Reply: There is no basement provided on the project. If required at any stage. We will obtain permission from concerned department.

**Condition 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.**

Reply: Agreed.

**Condition 34: The site for solid waste management plant is 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.**

Reply: The site for solid waste plant has been earmarked on the layout plan. The same will be provided before operational stage. Site plan attached as **Annexure XVII**.

**Condition 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.**

Reply: we will discharge excess of treated waste/storm water in the public drainage system. Application will be submitted to HUDA for drainage connection.

**Condition 36: The project proponent shall ensure that structural stability to withstand earthquake of magnitude 8.5 on Richter scale.**



Reply: The project is conceived and detailed by in house designers adhering to in vogue safety and design standards. All measures are being taken to ensure that building is earthquake resistant. All provisions of IS 1893 and IS 13920 are being followed in the structural design.

**SPECIFIC CONDITIONS: OPERATIONAL PHASE**

**Condition 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.**

Reply: Consent to Operate has been obtained from Haryana State Pollution Control Board for "Consent to Operate" under Air and Water Act vide letter no. HSPCB/Consent/:329962324JHACTO53643279 Dated 04.03.2024, copy of CTO is enclosed as **Annexure XVIII**. CTO has been obtained for the period from 04.03.2024 to 30.09.2028.

**Condition b: The Sewage Treatment Plant (STP) should be installed for the treatment to the prescribed standards including odour and treated effluent sll be recycled to achieve zero exit discharge. The installation of STP should be certified by an independent expert and a report in this regard should be submitted to 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/lit. Similarly total Nitrogen level shall be less than 2mg/lit in tertiary treated waste water. Discharge of treated sewage shall confirm to the norms and standards of HSPCB, Panchkula. The project proponent shall implement such STP technology which does not require filter backwash.**

Reply: The Sewage Treatment Plant (STP) based on Sequential Batch reactor technology has been installed in the project for the treatment of the sewage to the prescribed standards. The sewage is being treated in in- house STP up to tertiary level. The treated water from STP is being used in flushing & horticulture as of now.

**Condition c: Separation of black and grey water should be done by 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 maximum 10 mg/litre and the recycled water will be used for flushing, gardening and DG set cooling etc. to achieve zero exit discharge.**

Reply: Agreed. Dual Plumbing line is being used. The treated water from STP is being reused in the project for flushing and landscaping purposes.

**Condition d: For disinfections of treated waste water ultra-violet radiation or ionization process should be used**

Reply: Agreed. For disinfection of the treated water, ultra violet radiation is being used.

**Condition e: Diesel power generating sets proposed as source of backup power for lifts, common areas illumination and for domestic use should be of enclosed type and confirm to the rule made under Environment Protection Act, 1986. The location of DG sets should be in the basement as**





promised by the project proponent with appropriate stack height i.e. above the roof level as per the CPCB norms. The diesel used for DG shall be ultra low sulphur content (35ppmsulphur), instead of low sulphur diesel.

**Reply:** Agreed. The DG sets have been installed with stack height above the roof level of building, as per CPCB norms. The diesel used for D.G sets is ultra-low Sulphur diesel.

**Condition f: Ambient Noise level should be controlled to ensure that it does not exceed the prescribed standards both within and at the boundary of Proposed Institutional campus & Residential Township:**

**Reply:** Agreed. Proper mitigation measures as suggested in the EMP to control high noise levels will be ensured.

**Condition g: The project proponent as stated in the proposal shall maintain at least 30.57% for institutional campus and 31.57% for residential township as green cover area for tree plantation especially all around the periphery of the project and on the road sides preferably with local species so as to provide protection against suspended particulates matter and noise. The open spaces inside the plot should be preferably landscaped and covered with vegetation/grass. Herbs & shrubs. Only locally available plant species shall be used.**

**Reply:** Agreed.

**Condition h: The project proponent shall strive to minimize water in irrigation by minimizing the grass area, using native verity, xeriscaping and mulching, utilizing efficient irrigation system, scheduling irrigation only after checking vapor-transpiration data.**

**Reply:** Agreed. Water minimization will be done during the operation phase.

**Condition i: The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.**

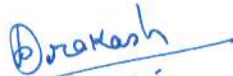
**Reply:** Agreed.

**Condition j: A report on energy conservation measures conforming to energy conservations norms finalize by bureau of energy efficiency should be prepared incorporating details about building materials & technology, "R & U factors etc" and submit to IA division of environment and forest department, Haryana in three months time.**

**Reply:** Agreed.

**Condition k: Energy conservation measures like installation of LED for the lighting the area outside the building should be integral part of the projects design and should be in place before project commissioning. Use of solar panels must be adapted to the maximum energy conversion**

**Reply:** Agreed.





**Condition l:** The project proponent shall use zero ozone depleting potential material in the insulation, refrigeration, air-conditioning and adhesive. The project proponent shall also provide Halon free fire suppression system.

Reply: Agreed.

**Condition m:** The solid waste generated should be properly collected and segregated as per requirements of MSW rules, 2000. The bio-degradable waste should be treated by appropriate technology at the site ear marked with in the project area and dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable materials.

Reply: Agreed. Solid waste management Plan is attached as **Annexure-IV**

**Condition n:** The provision of the solar water heating system shall be as per the norms specified by HAREDA and shall be made operational in each building block.

Reply: Agreed.

**Condition o:** The traffic plan and the parking plan proposed by the project proponent should be adhered to meticulously 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.

Reply: Agreed. Traffic cum parking plan enclosed as **Annexure-XVIX**

**Condition p:** The project shall be operationalized only when HUDA/local authority will provide domestic water supply system in the area.

Reply: Agreed.

**Condition q:** Operation and maintenance of STP, solid waste management and electrical Infrastructure, pollution control measures shall be ensured even after the completion of sale.

Reply: Agreed.

**Condition r:** 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 waste and battery waste shall be disposed off 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 should be disposed of to only registered and authorized dismantler/recycler.

Reply: Agreed. MSW will be disposed off as per MSW Rules. Other wastes will be disposed off to authorized vendors as per prescribed rules of MoEF and CPCB.



**Condition s: Standards for discharge of environmental pollutants as enshrined in various schedules of rule 3 of Environmental Protection Rule 1986 shall be strictly complied with.**

Reply: Agreed. As per Environment protection Rule 1986 standard for discharge of environment pollutant will be complied.

**Condition t: The project proponent shall make provision for guard pond and other provision for safety against failure in the operation of waste water treatment facilities. The project proponent shall also identify acceptable outfall for treated effluent.**

Reply: Agreed. During failure of STP, automatic valve will be drained out in sewerage system. Project will provide guard pond.

**Condition u: The project proponent shall ensure that the stack height of DG sets is as per the CPCB guide lines that the emission standards of noise and air are within the CPCB latest prescribed limits. Noise Level of D.G sets greater than 800 KVA shall be as per CPCB latest standard for high capacity D.G sets.**

Reply: Agreed.

**Condition v: All electric supply exceeds 100 amp, 3 phase shall maintain the power factor between 0.98 lag to 1 at the point of connection.**

Reply: Agreed.

**Condition w: The project proponent shall minimize heat island effect through shading and reflective or pervious surface instead of hard surface.**

Reply: Agreed. The Project proponent will minimize heat island effect through shading and reflective or pervious surface instead of hard surface.

**Condition x: 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 optimum level. Variable speed drive, best Co-efficient of Performance, (CoP), as well as optimal integrated point load value and maximum outside fresh air supply may be resorted for conservation of power and waste. Coil type cooling DG Sets shall be used for saving cooling water consumption for water cooled DG Sets.**

Reply: Agreed.

**Condition y: 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.**



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बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507



Reply: Yes, Transformers from certified manufacturers will be used as per the requirements.

**Condition z: Water Supply shall be metered among different users and different utilities.**

Reply: We will meter different residential units and different utilities in operational phase.

**Condition aa: 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-water under any meteorological condition.**

Reply: Agreed. Stack will be designed in such a way that there will not be stack down wash under any meteorological conditions.

**Condition ab: The project proponent shall provide water sprinkling system in the project area to the suppress the dust in addition to the already suggested mitigation measures in the Air Environment Chapter of EMP.**

Reply: Agreed.

**Condition ac: The project proponent shall provide additional green area on terrace and roof top.**

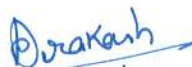
Reply: Agreed.

**Condition ad: The Project Proponent shall ensure proper Air Ventilation and light system in the basement 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.**

Reply: there is no basement in the Project site. Not Applicable.

**Condition ae: The project proponent shall install solar panel for energy conservation.**

Reply: Agreed.



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बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana)



**PART B- GENERAL CONDITIONS**

**Condition 1:** 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 compiled with in letter and spirit. In case of contradiction between two or more documents or any point, the most environment friendly commitment shall be taken as commitment by the project proponent.

Reply: The environment safeguards contained in the EIA/EMP Report are being implemented in letter and spirit.

**Condition 2:** 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.

Reply: We are regularly submitting the semiannual environmental compliance report along with the monitoring details and lab reports in both soft and hard forms to the SEIAA and the regional office, MoEF, GOI, Northern region, Chandigarh.

**Condition 3:** 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 months, the project proponent shall conduct environmental audit, and shall take corrective measures, if required, without any delay.

Reply: The environmental parameters will be monitored as per the guidelines.

**Condition 4:** The SEIAA, Haryana and reserve the right to add additional safeguards 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.

Reply: Agreed.

**Condition 5:** The Project proponent shall not violate any judicial orders /pronouncements issued by court/Tribunal.

Reply: We will respect and not violate any judicial orders/ pronouncements issued by the Court / Tribunal.

**Condition6:**All other statutory clearance such as approval 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.



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बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) 131 037

Reply: All statutory clearance will be obtained. Copies of applicable NOC already obtained are attached in this report.

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

Reply: Agreed. Advertisement copy is enclosed as **Annexure-XX**

**Condition 8: Under the provision of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponents if it was found that construction of the projects has been started before obtaining prior Environmental Clearance.**

Reply: Construction has been commenced only after obtained prior environmental clearance.

**Condition 9: Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, If preferred with in a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.**

Reply: Agreed.

**Condition 10: The project proponent shall put in place corporate environment policy as mentioned in MoEF, GOI OM No. J-11013/4112006-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.**

Reply: Corporate environmental policy is not applicable to us since we are Government of India Department. However, we are carrying out activities like infrastructure development in and around Jasaur and Kheri desalination plant, computer training center around Jhajjar and Anganwadis in and around Jhajjar. We have earmarked Rs. 219 lakhs for such developmental activities. We have already contributed Rs. 50 Lakhs for promoting education by construction Govt. Girls degree college at JasaurKheri, Bahadurgarh, Haryana.

**Condition 11: 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 report should be submitted to the SEIAA/RO MoEF, GOI under rules prescribed for Environmental Audit.**

Reply: Agreed. Funds earmarked for environment protection are kept in a separate account and will not be diverted for any other purpose.

**Condition 12: 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.**

Reply: Agreed.



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पृष्ठ संख्या: 07



**Condition 13:** The project proponent shall ensure that no vehicles during construction/ operation phase enter the project premises without valid 'Pollution under Control' certificate from competent Authority.

Reply: Entry of any vehicle without "Pollution under Control" will be prohibited.

**Condition 14:** The project proponent shall seek fresh Environment Clearance if at any stage there is change in the planning of the proposed project.

Reply: Agreed. We will seek for a new clearance for any modification in the project.

**Condition 15:** Nodal Officer (Project Director) nominated by GCNEP shall be responsible for implementation of all conditions of Environmental clearance letter.

Reply: Agreed.

**Condition 16:** 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<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>x</sub>, NO<sub>x</sub>, Ozone, Lead, CO, Benzene, Ammonia, Benzo-pyrene, Arsenic and Nickel. (Ambient level 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.

Reply: Agreed.

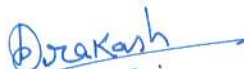
**Condition 17:** The Environmental Statement for each financial year ending 31<sup>st</sup> March in Form-v as is mandated to be submitted by the project proponent to the HSPCB Panchkula as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website 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.

Reply: Agreed.

**Condition 18:** 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.

Reply: Agreed.

**Condition 19:** The validity of this environment clearance letter is valid upto to 7 Years from the day to issuance of EC letter. The environment clearance conditions applicable till life space project in case of Residential project will continue to apply. The residential welfare association/ housing co-operative societies shall responsible to comply conditions laid down in EC. In case of violation the action would be taken as per e laid down law of land. Compliance report should be sent to this office till the report. Reply: Agreed.



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**Condition 20: If project is not completed with in the validity period then the project proponent shall submit the application for extension of validity within one month before the lapse of validity.**

Reply: Agreed.



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बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124607





**HARYANA STATE POLLUTION CONTROL BOARD**

**SCF No. 42 & 43, Shopping Centre, Sector-6, Huda, Bahadurgarh Ph. 01276-243077 (O)**

Website: [www.hspcb.gov.in](http://www.hspcb.gov.in) E-Mail - [hspcb.pkl@sifymail.com](mailto:hspcb.pkl@sifymail.com)

Telephone No.: 0172-2577870-73



No. HSPCB/Consent/ : 329962318JHACTE5554066

Dated:03/10/2018

To.

M/s : Global Centre for Nuclear Energy Partnership (Institute and Township)  
Village Jasuar Kheri and Kheri Jasaur, Tel Bahadurgarh  
JHAJJAR  
124505

**Sub. : Grant of consent to Establish to M/s Global Centre for Nuclear Energy Partnership (Institute and Township)**

Please refer to your application no. 5554066 received on dated 2018-08-27 in regional office Bahadurgarh.

With reference to your above application for consent to establish, M/s Global Centre for Nuclear Energy Partnership (Institute and Township) is hereby granted consent as per following specification/Terms and conditions.

<b>Consent Under</b>	AIR/WATER
<b>Period of consent</b>	03/10/2018 - 03/04/2025
<b>Industry Type</b>	Building and construction project having waste water generation more than 100 KLD
<b>Category</b>	RED
<b>Investment(In Lakh)</b>	81100.0
<b>Total Land Area (Sq. meter)</b>	946600.3
<b>Total Builtup Area (Sq. meter)</b>	92979.0
<b>Quantity of effluent</b>	
1. Trade	202.0 KL/Day
2. Domestic	0.0 KL/Day
<b>Number of outlets</b>	1.0
<b>Mode of discharge</b>	
1. Domestic	
2. Trade	through STP
<b>Permissible Domestic Effluent Parameters</b>	
1. BOD	30 mg/l
2. COD	250 mg/l
3. TSS	100 mg/l
4. O&G	10 mg/l


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 परियोजना निदेशक / Project Director  
 वैश्विक नाभिकीय ऊर्जा साझेदारी केंद्र (जी सी एन ई पी)  
 Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
 प.ज.वि., भारत सरकार / D.A.E., Government of India  
 बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana)

Permissible Trade Effluent Parameters	
1. NA	mg/l
Number of stacks	1
Height of stack	
1. DG sets 6 no.	6 meters
Permissible Emission parameters	
1. NA	
Capacity of boiler	
1. NA	Ton/hr
Type of Furnace	
1. NA	
Type of Fuel	
1. Diesel	4.6 KL/day

**Regional Officer, Bahadurgarh**  
Haryana State Pollution Control Board.

### Terms and conditions

1. The industry has declared that the quantity of effluent shall be 202 KL/Day i.e 0KL/Day for Trade Effluent, 0 KL/Day for Cooling, 202 KL/Day for Domestic and the same should not exceed .
2. The above 'Consent to Establish' is valid for 60 months from the date of its issue to be extended for another one year at the discretion of the Board or till the time the unit starts its trial production whichever is earlier. The unit will have to set up the plant and obtain consent during this period.
3. The officer/official of the Board shall have the right to access and inspection of the industry in connection with the various processes and the treatment facilities being provided simultaneously with the construction of building/machinery. The effluent should conform the effluent standards as applicable
4. That necessary arrangement shall be made by the industry for the control of Air Pollution before commissioning the plant. The emitted pollutants will meet the emission and other standards as laid/will be prescribed by the Board from time to time.
5. The applicant will obtain consent under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21/22 of the Air (Prevention & Control of Pollution) Act,1981 as amended to-date-even before starting trial production
6. The above Consent to Establish is further subject to the conditions that the unit complies with all the laws/rules/decisions and competent directions of the Board/Government and its functionaries in all respects before commissioning of the operation and during its actual working strictly.
7. No in-process or post-process objectionable emission or the effluent will be allowed, if the scheme furnished by the unit turns out to be defective in any actual experience
8. The Electricity Department will give only temporary connection and permanent connection to the unit will be given after verifying the consent granted by the Board, both under Water Act and Air Act.
9. Unit will raise the stack height of DG Set/Boiler as per Board's norms.
10. Unit will maintain proper logbook of ~~water~~ meter/sub meter before/after commissioning.

  
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 बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana)-124507



11. That in the case of an industry or any other process the activity is located in an area approved and that in case the activity is sited in an residential or institutional or commercial or agricultural area, the necessary permission for siting such industry and process in an residential or institutional or commercial or agricultural area or controlled area under Town and Country Planning laws CLU or Municipal laws has to be obtained from the competent Authority in law permitting this deviation and be submitted in original with the request for consent to operate.
12. That there is no discharge directly or indirectly from the unit or the process into any interstate river or Yamuna River or River Ghaggar.
13. That the industry or the unit concerned is not sited within any prohibited distances according to the Environmental Laws and Rules, Notification, Orders and Policies of Central Pollution control Board and Haryana State Pollution Control Board.
14. That of the unit is discharging its sewage or trade effluent into the public sewer meant to receive trade effluent from industries etc. then the permission of the Competent Authority owing and operating such public sewer giving permission letter to his unit shall be submitted at time of consent to operate.
15. That if at any time, there is adverse report from any adjoining neighbor or any other aggrieved party or Municipal Committee or Zila Parishad or any other public body against the unit's pollution; the Consent to Establish so granted shall be revoked.
16. That all the financial dues required under the rules and policies of the Board have been deposited in full by the unit for this Consent to Establish.
17. In case of change of name from previous Consent to Establish granted, fresh Consent to Establish fee shall be levied.
18. Industry should adopt water conservation measures to ensure minimum consumption of water in their Process. Ground water based proposals of new industries should get clearance from Central Ground Water Authority for scientific development of previous resource.
19. That the unit will take all other clearances from concerned agencies, whenever required.
20. That the unit will not change its process without the prior permission of the Board.
21. That the Consent to Establish so granted will be invalid, if the unit falls in Aravali Area or non conforming area.
22. That the unit will comply with the Hazardous Waste Management Rules and will also make the non-leachate pit for storage of Hazardous waste and will undertake not to dispose off the same except for pit in their own premises or with the authorized disposal authority.
23. That the unit will submit an undertaking that it will comply with all the specific and general conditions as imposed in the above Consent to Establish within 30 days failing which Consent to Establish will be revoked.
24. That unit will obtain EIA from MoEF, if required at any stage.
25. In case of unit does not comply with the above conditions within the stipulated period, Consent to Establish will be revoked.
26. That unit will obtain consent to operate from the board before the start of product activity.

#### Specific Conditions

#### Other Conditions :

  
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Global Centre for Nuclear Energy Research (G.C.N.E.P.)  
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बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507

1. CTE expansion is granted for full construction of the institutional campus and residential township including group housing as per the revised EC obtained by the unit from the date of approval till 03.04.2025 ie upto the validity of the EC with the condition that unit will comply with the conditions of Env Clearance granted to the unit.
- 2.The unit will install 03 no proposed STP's with total of 264.5 KLD capacity as mentioned in the EC.
- 3.The unit will install the DG set with inbuilt acoustic enclosures as mentioned in the EC.
- 4.The unit will submit the compliance reports to the concerned authorities on regular basis as mentioned in the EC granted to unit.
- 5.The unit will got renewed the License issued from T&CP deptt before expiry and will not do any construction during that period.
6. Unit will not operate without obtaining prior CTO from the board during validity period of CTE granted and installation of STP proposed for the expansion part.
7. Unit will comply with the MoEF Guidelines 2010 and Hon'ble NGT directions in regard to the orders passed in OA No. 21 of 2014 titled Vardhman Kaushik v
- 8.The project/unit will provide separate 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 recycled water will be used for flushing, gardening and DG set cooling.
- 9.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.
- 10.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 project.
- 11.Standards for discharging of environmental pollutants as enshrined in various schedules of rule 3 of Environment Protection Rules, 1986 shall be strictly complied with by the unit.
- 12.The unit will comply with the Construction & Demolition rules.

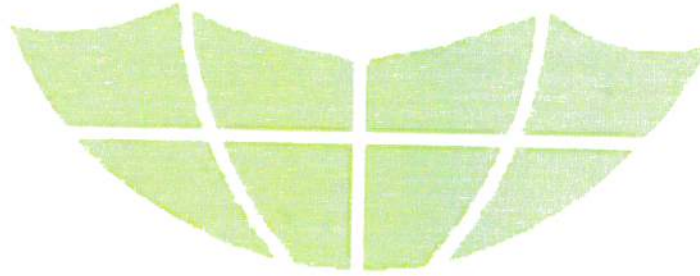
**HARYANA STATE**

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Date: 2018.10.03 11:58:40  
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*Regional Officer, Bahadurgarh*

*Haryana State Pollution Control Board.*

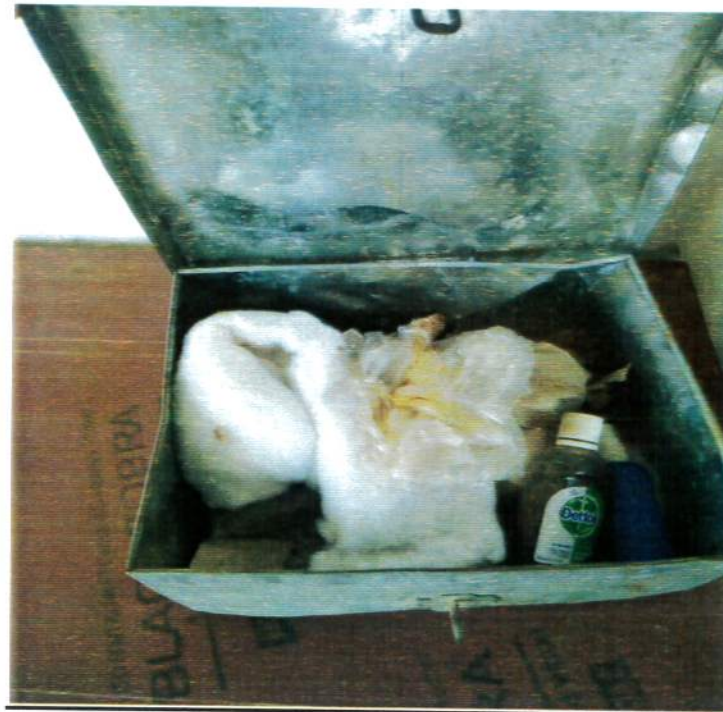


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**Annexure –II First aid Room**



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**ANNEXURE-III**



**Drinking Water**

*Dr. Prakash*

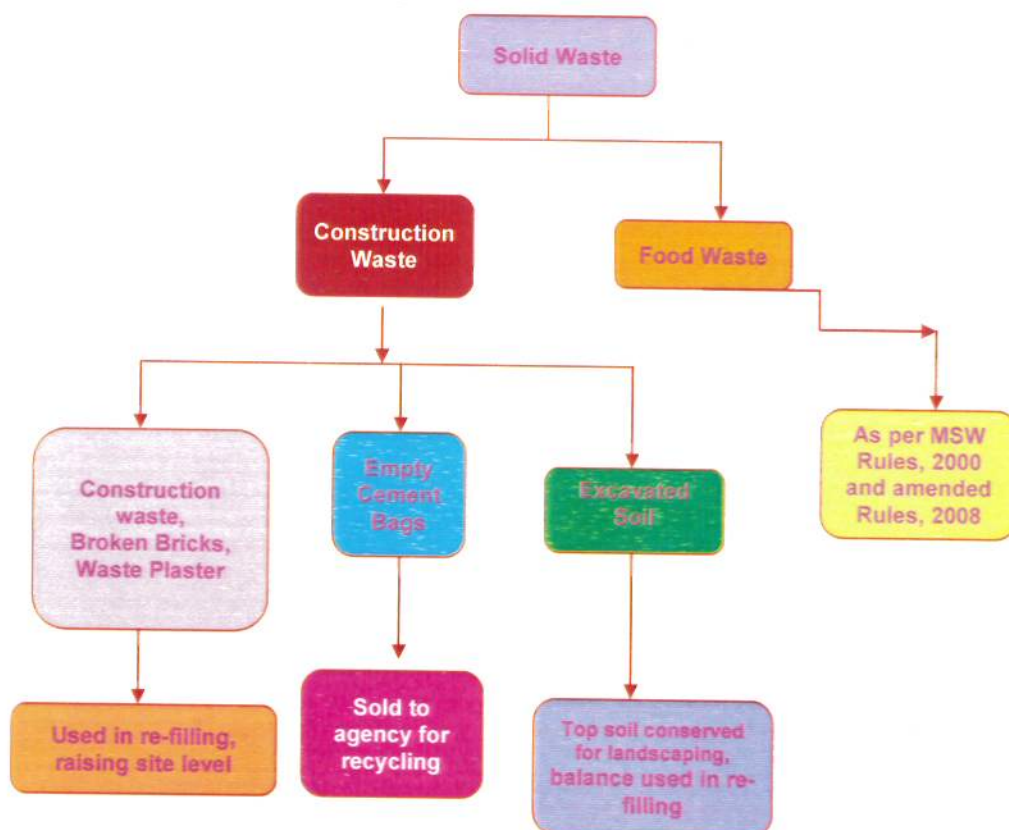
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## SOLID WASTE MANAGEMENT PLAN


Solid waste would be generated both during the construction as well as during the operation phase. The solid waste expected to be generated during the construction phase will comprise of excavated materials, used bags, bricks, concrete, MS rods, tiles, wood etc. The following steps are proposed to be followed for the management solid waste:

- Construction yards are proposed for storage of construction materials.
- The excavated material such as topsoil and stones will be stacked for reuse during later stages of construction
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the Residential Group Housing Colony project.
- Remaining soil shall be utilized for refilling / road work / rising of site level at locations/ selling to outside agency for construction of roads etc.



**Figure 1: Solid Waste Management Scheme (Construction Phase)**

During the operation phase, waste will comprise domestic as well as agricultural waste. The solid waste generated from the project shall be mainly domestic waste and estimated quantity

  
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of the waste shall be approx. 1530 kg per day (@ 0.5 kg per capita per day for residents and students, @ 0.15 kg per capita per day for the visitor, 0.25 kg per capita per day for the staff members and landscape wastes @ 15 kg/acre/day). Following arrangements will be made at the site in accordance to Municipal Solid Wastes (Management and Handling) Rules, 2000 and amended Rules, 2008.

❖ **Collection and Segregation of waste**

1. A door to door collection system will be provided for collection of domestic waste in colored bins from household units.
2. The local vendors will be hired to provide separate colored bins for dry recyclables and Bio-Degradable waste.
3. For commercial waste collection, adequate number of colored bins (Green and Blue & dark grey bins– separate for Bio-degradable and Non Bio-degradable) are proposed to be provided at the strategic locations of the commercial area.
4. Litter bin will also be provided in open areas like parks etc.

❖ **Treatment of waste**

- **Bio-Degradable wastes**
  1. Bio-degradable waste will be subjected to vermicomposting and the compost will be used as manure.
  2. STP sludge is proposed to be used for horticultural purposes as manure.
  3. Horticultural Waste is proposed to be composted and will be used for gardening purposes.
- **Recyclable wastes**
  - i. **Grass Recycling** – The cropped grass will be spread on the green area. It will act as manure after decomposition.
  - ii. Recyclable wastes like paper, plastic, metals etc. will be sold off to recyclables.

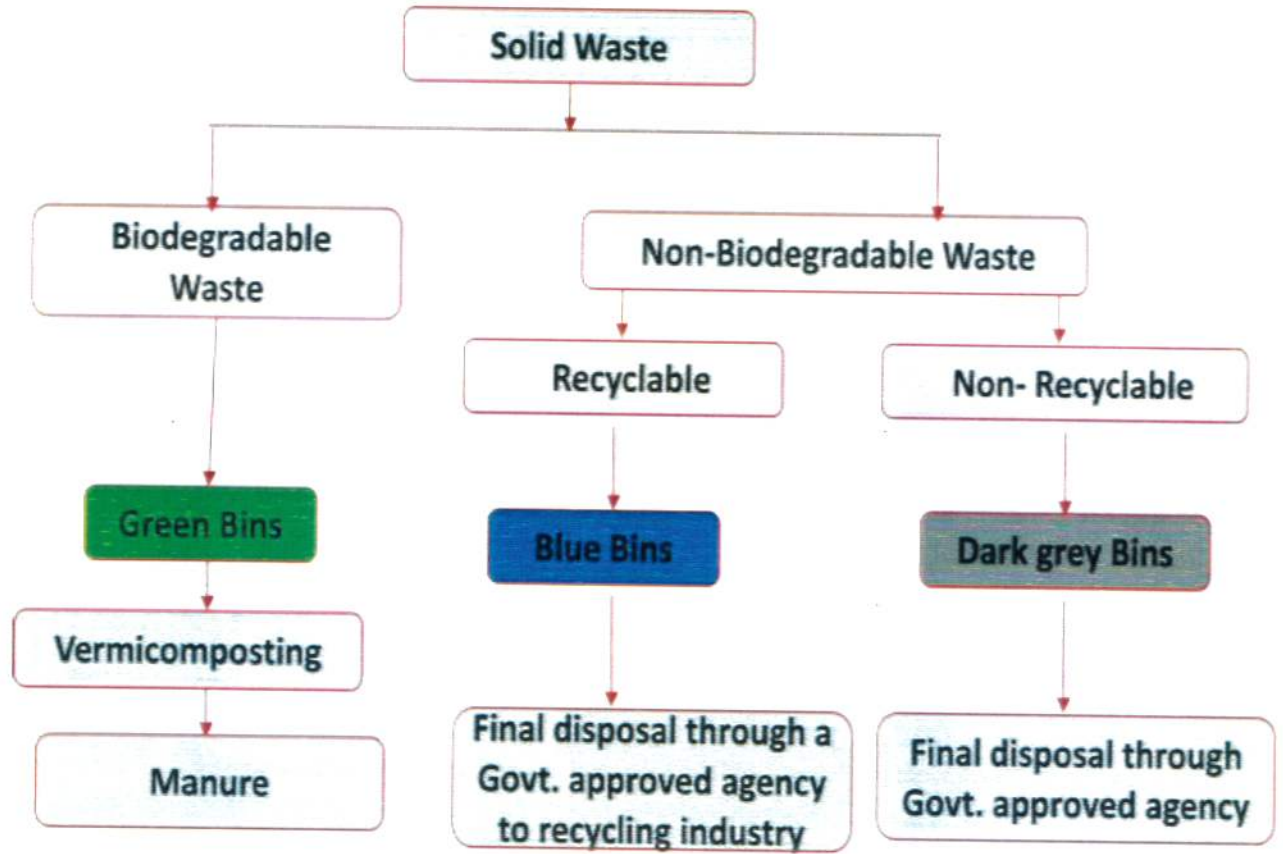
❖ **Disposal**

Recyclable and non-recyclable wastes will be disposed through Govt. approved agency. Hence, the Municipal Solid Waste Management will be conducted as per the guidelines of Municipal Solid Wastes (Management and Handling) Rules, 2000 and amended Rules, 2008. A Solid waste management Scheme is depicted in the following figure for the Residential Group Housing Colony Project.



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**Figure 2: Solid Waste Management Scheme (Operation Phase)**

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 प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
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ANNEXURE V: PHOTOGRAPH SHOWING STORAGE OF TOP SOIL



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Annexure-VI COVERED CONSTRUCTION MATERIAL



*Drakash*

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## Test Report

Sample Number: VEL/GCNEP/A/01 Report No.: VEL/A/2405/29/001  
Name & Address of Party: M/s GCNEP, Department of Atomic Energy, Government of India, at Village- Kheri Jasaur and Jasaur Kheri, Bhadurgarh, District- Jhajjar, Haryana Format No.: 7.8F-03 Party Reference No.: NIL Reporting Date: 03.06.2024 Period of Analysis: 29.05.2024 to 03.06.2024 Receipt Date: 29.05.2024  
Sample Description : AMBIENT AIR QUALITY MONITORING

### General Information:-

Sample collected by : VardanEnviro Lab Representative  
Sampling Location : Project Site  
Instrument Used : RDS & FPS sampler with all Accessories  
Instrument Code : VEL/RDS/FPS/07  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Surrounding Activity : Human & Vehicular Activities  
Scope of Monitoring : Regulatory Requirement  
Control measure if Any : --  
Sampling & Analysis Protocol : IS-5182  
Parameter Required : PM<sub>2.5</sub>, PM<sub>10</sub>, NO<sub>2</sub>, SO<sub>2</sub> CO, SPM, HC

Date	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	SPM	HC (µg/m <sup>3</sup> )
06.05.2024	240.35	110.85	16.63	34.78	0.89	312.7	BLQ (LOQ 0.05)
07.05.2024	325.29	155.69	17.78	45.78	0.92	350.6	BLQ (LOQ 0.05)
13.05.2024	182.20	82.47	18.10	33.36	0.78	252.5	BLQ (LOQ 0.05)
14.05.2024	210.96	61.48	15.55	32.99	0.76	242.4	BLQ (LOQ 0.05)
20.05.2024	175.48	92.65	16.36	15.52	0.85	232.3	BLQ (LOQ 0.05)
21.05.2024	235.85	75.96	15.56	16.36	0.80	275.0	BLQ (LOQ 0.05)
27.05.2024	225.65	85.85	16.62	45.85	0.72	267.0	BLQ (LOQ 0.05)
28.05.2024	301.12	87.74	14.59	30.25	0.92	360.0	BLQ (LOQ 0.05)

Limit as per NAAQS*	Parameter	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
		100	60	80	80	4

\*National Ambient Air Quality Standards, Note - \*Below Detection Limit.

(Checked By)



(Approved By)



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जॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
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## Test Report

**Sample Number:** VEL/GCNEP/AP/02 **Report No.:** VEL/AP/2405/29/002  
**Name & Address of Party:** M/s GCNEP, Department of Atomic Energy, Government of India, Reactor Control Division, at Village- Kheri Jasaur and Jasaur Kheri, Bhadurgarh, District- Jhajjar, Haryana. **Format No.:** 7.8 F-03  
**Party Reference No.:** NIL **Reporting Date:** 03/06/2024  
**Period of Analysis:** 29/05/2024 to 03/06/2024  
**Receipt Date:** 29/05/2024

**Sample Description :** AMBIENT NOISE LEVEL MONITORING

### General Information:-

**Sample collected by** : Vardan EnviroLab Representative  
**Sampling Location** : Project Site  
**Instrument Used** : Sound Level Meter  
**Instrument Calibration Status** : Calibrated  
**Meteorological condition during monitoring** : Clear Sky  
**Date of Monitoring** : 27/05/2024 to 28/05/2024  
**Time of Monitoring** : 06:00 AM to 06:00 AM  
**Surrounding Activity** : Human & Vehicular Activities  
**Scope of Monitoring** : Regulatory Requirement  
**Sampling & Analysis Protocol** : IS-9989  
**Sampling Duration** : 24 Hours  
**Parameter Required** :  $L_{max}$ ,  $L_{min}$  &  $L_{eq}$

## TEST RESULTS

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	$L_{max}$	IS-9989	67.6	58.6	dB(A)
2.	$L_{min}$	IS-9989	44.6	37.5	dB(A)
3.	$L_{eq}$	IS-9989	52.60	40.65	dB(A)
4.	CPCB Limits in dB(A) Leq (Residential Area)	-	55.0	45.0	dB(A)

Note- \*A "decibel" is a unit in which noise is measured.

\*\*\*End of Report\*\*\*



Reviewed By

*Dr. Deep Prakash*

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## Test Report

**Sample Number:** VEL/GCNEP/AP/03 **Report No.:** VEL/AP/2405/29/003  
**Name & Address of Party:** M/s GCNEP, Department of Atomic Energy, **Format No.:** 7.8 F-03  
Government of India **Party Reference No.:** NIL  
at Village- Kheri Jasaur and Jasaur Kheri, **Reporting Date:** 03/06/2024  
Bhadurgarh, District- Jhajjar, Haryana **Period of Analysis:** 29/05/2024 to 03/06/2024  
**Receipt Date:** 29/05/2024

**Sample Description :** STACK EMISSION MONITORING

Sample Collected : Vardan Envirolab Team  
Date of Sampling : 27/05/2024  
Sampling Location : DG Area (250 KVA)  
Sampling duration (Minutes) : 42.0  
Meteorological Condition : Clear Sky  
Height of the Stack : 7.62 Meter  
Diameter of the Stack : 0.15 mtr  
Instrument calibration status : Calibrated  
Ambient Temperature - Ta (°C) : 40.0  
Temperature of Stack Gases - Ts (°C) : 175.0  
Velocity of Stack Gases (m/sec.) : 8.20  
Flow rate of PM (LPM) : 23.0  
Flow rate of Gas (LPM) : 2.0  
Sampling condition : Isokinetic  
Protocol used : IS:11255

## TEST RESULTS

S. No.	Parameters	Protocol	Units	Results	Limits (As Per CPCB)
1.	Particulate Matter (PM)	IS 11255 (P-1), Gravimetric Method	g/kW - hr	0.017	0.02
2.	Nitrogen Dioxide (as NO <sub>2</sub> )	IS 11255 (P-7)	g/kW - hr	0.238	0.40
3.	Total Hydrocarbon as Methane	VEL/ENV/STP/ST/FGA/01, Issue No.- 01,01/11/21	g/kW - hr	0.115	0.19
4.	Carbon Monoxide (as CO)	VEL/ENV/STP/ST/FGA/01, Issue No.- 01,01/11/21	g/kW - hr	0.551	3.5
5.	Sulphur Dioxide (as SO <sub>2</sub> )	IS: 11255 (P-2), Titrimetric Method	gm/Kw-hr	0.136	Not Specified

\*\*\*End of Report\*\*\*

Reviewed By



*Dr. Deep Prakash*

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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

**Sample Number:** VEL/GCNEP/AP/04  
**Name & Address of Party:** M/s GCNEP, Department of Atomic Energy, Government of India at Village- Kheri Jasaur and Jasaur Kheri, Bhadurgarh, District- Jhajjar, Haryana

**Report No.:** VEL/AP/2405/29/004  
**Format No.:** 7.8 F-03  
**Party Reference No.:** NIL  
**Reporting Date:** 03/06/2024  
**Period of Analysis:** 29/05/2024 to 03/06/2024  
**Receipt Date:** 29/05/2024

**Sample Description :** STACK EMISSION MONITORING

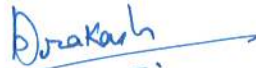
Sample Collected : Vardan Envirolab Team  
Date of Sampling : 27/05/2024  
Sampling Location : DG Area ( 250 KVA)  
Sampling duration (Minutes) : 41.0  
Meteorological Condition : Clear Sky  
Height of the Stack : 7.62 Meter  
Diameter of the Stack : 0.15 mtr  
Instrument calibration status : Calibrated  
Ambient Temperature - Ta (°C) : 40.0  
Temperature of Stack Gases - Ts (°C) : 180.0  
Velocity of Stack Gases (m/sec.) : 8.15  
Flow rate of PM (LPM) : 22.0  
Flow rate of Gas (LPM) : 2.0  
Sampling condition : Isokinetic  
Protocol used : IS:11255

## TEST RESULTS

S. No.	Parameters	Protocol	Units	Results	Limits (As Per CPCB)
1.	Particulate Matter (PM)	IS 11255 (P-1), Gravimetric Method	gm/Kw-hr	0.018	0.02
2.	Nitrogen Dioxide (as NO <sub>2</sub> )	IS 11255 (P-7)	gm/Kw-hr	0.242	0.40
3.	Total Hydrocarbon as Methane	VEL/ENV/STP/ST/FGA/01, Issue No.- 01,01/11/21	gm/Kw-hr	0.062	0.19
4.	Carbon Monoxide (as CO)	VEL/ENV/STP/ST/FGA/01, Issue No.- 01,01/11/21	gm/Kw-hr	0.450	3.5
5.	Sulphur Dioxide (as SO <sub>2</sub> )	IS: 11255 (P-2), Titrimetric Method	gm/Kw-hr	0.084	Not Specified

\*\*\*End of Report\*\*\*

Reviewed By   
03/06/2024

  
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Dr. Shiv Prakash  
Authorized Signatory  
03/06/2024

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## Test Report

**Sample Number:** VEL/GCNEP/AP/05  
**Name & Address of Party:** M/s GCNEP, Department of Atomic Energy, Government of India at Village- Kheri Jasaur and Jasaur Kheri, Bhadurgarh, District- Jhajjar, Haryana

**Report No.:** VEL/AP/2405/29/005  
**Format No.:** 7.8 F-03  
**Party Reference No.:** NIL  
**Reporting Date:** 03/06/2024  
**Period of Analysis:** 29/05/2024 to 03/06/2024  
**Receipt Date:** 29/05/2024


**Sample Description :** STACK EMISSION MONITORING


Sample Collected : Vardan Envirolab Team  
Date of Sampling : 27/05/2024  
Sampling Location : DG Area ( 320 KVA)  
Sampling duration (Minutes) : 43.0  
Meteorological Condition : Clear Sky  
Height of the Stack : 7.62 Meter  
Diameter of the Stack : 0.15 mtr  
Instrument calibration status : Calibrated  
Ambient Temperature - Ta (°C) : 40.0  
Temperature of Stack Gases - Ts (°C) : 190.0  
Velocity of Stack Gases (m/sec.) : 8.25  
Flow rate of PM (LPM) : 21.0  
Flow rate of Gas (LPM) : 2.0  
Sampling condition : Isokinetic  
Protocol used : IS :11255

## TEST RESULTS

S. No.	Parameters	Protocol	Units	Results	Limits (As Per CPCB)
1.	Particulate Matter (PM)	IS 11255 (P-1), Gravimetric Method	gm/Kw-hr	0.017	0.02
2.	Nitrogen Dioxide (as NO <sub>2</sub> )	IS 11255 (P-7)	gm/Kw-hr	0.265	0.40
3.	Total Hydrocarbon as Methane	VEL/ENV/STP/ST/FGA/01, Issue No.- 01,01/11/21	gm/Kw-hr	0.071	0.19
4.	Carbon Monoxide (as CO)	VEL/ENV/STP/ST/FGA/01, Issue No.- 01,01/11/21	gm/Kw-hr	0.465	3.5
5.	Sulphur Dioxide (as SO <sub>2</sub> )	IS: 11255 (P-2), Titrimetric Method	gm/Kw-hr	0.091	Not Specified

\*\*\*End of Report\*\*\*

Reviewed By   
03/06/2024

Authorized Signatory   
Dr. Deep Prakash / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा सांख्यिकी केंद्र (जी.सी.एन.ई.पी.)  
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ISO 9001 | ISO 14001 | ISO 45001

## Test Report

**Sample Number:** VEL/GCNEP/AP/06  
**Name & Address of Party:** M/s GCNEP, Department of Atomic Energy, Government of India at Village- Kheri Jasaur and Jasaur Kheri, Bhadurgarh, District- Jhajjar, Haryana

**Report No.:** VEL/AP/2405/29/006  
**Format No.:** 7.8 F-03  
**Party Reference No.:** NIL  
**Reporting Date:** 03/06/2024  
**Period of Analysis:** 29/05/2024 to 03/06/2024  
**Receipt Date:** 29/05/2024

**Sample Description :** STACK EMISSION MONITORING

Sample Collected : Vardan Envirolab Team  
Date of Sampling : 27/05/2024  
Sampling Location : DG Area ( 750 KVA)  
Sampling duration (Minutes) : 43.0  
Meteorological Condition : Clear Sky  
Height of the Stack : 7.62 Meter  
Diameter of the Stack : 0.15 mtr  
Instrument calibration status : Calibrated  
Ambient Temperature – Ta (°C) : 40.0  
Temperature of Stack Gases - Ts (°C) : 185.0  
Velocity of Stack Gases (m/sec.) : 8.30  
Flow rate of PM (LPM) : 21.0  
Flow rate of Gas (LPM) : 2.0  
Sampling condition : Isokinetic  
Protocol used : IS :11255

## TEST RESULTS

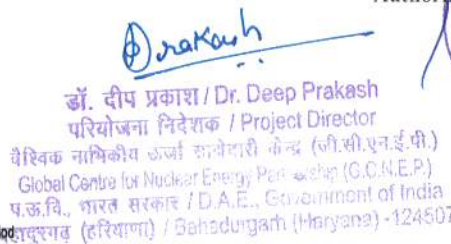
S. No.	Parameters	Protocol	Units	Results	Limits (As Per CPCB)
1.	Particulate Matter (PM)	IS 11255 (P-1), Gravimetric Method	gm/Kw-hr	0.016	0.03
2.	Nitrogen Dioxide (as NO <sub>2</sub> )	IS 11255 (P-7)	gm/Kw-hr	0.275	0.67
3.	Total Hydrocarbon as Methane	VEL/ENV/STP/ST/FGA/01, Issue No.- 01,01/11/21	gm/Kw-hr	0.084	0.19
4.	Carbon Monoxide (as CO)	VEL/ENV/STP/ST/FGA/01, Issue No.- 01,01/11/21	gm/Kw-hr	0.420	3.5
5.	Sulphur Dioxide (as SO <sub>2</sub> )	IS: 11255 (P-2), Titrimetric Method	gm/Kw-hr	0.088	Not Specified

\*\*\*End of Report\*\*\*

Reviewed By

  
03/06/2024

Authorized Signatory

  
डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा केंद्रीय कोष (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
सुदूरगढ़ (हरियाणा) / Bahadurgarh (Haryana) - 124507

  
Authorized Signatory

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Customer Care: 8010127843, Ph: 0124-4343750, 9810355569, 9953147268 | E-mail: lab@vardan.co.in, bd@vardan.co.in



# Vardan Envirolab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/GCNEP/AP/07  
Name & Address of Party: M/s GCNEP, Department of Atomic Energy, Government of India at Village- Kheri Jasaur and Jasaur Kheri, Bhadurgarh, District- Jhajjar, Haryana

Report No.: VEL/AP/2405/29/007  
Format No.: 7.8 F-03  
Party Reference No.: NIL  
Reporting Date: 03/06/2024  
Period of Analysis: 29/05/2024 to 03/06/2024  
Receipt Date: 29/05/2024

Sample Description : STACK EMISSION MONITORING

Sample Collected : Vardan Envirolab Team  
Date of Sampling : 27/05/2024  
Sampling Location : DG Area ( 750 KVA)  
Sampling duration (Minutes) : 41.0  
Meteorological Condition : Clear Sky  
Height of the Stack : 7.62 Meter  
Diameter of the Stack : 0.15 mtr  
Instrument calibration status : Calibrated  
Ambient Temperature - Ta (°C) : 40.0  
Temperature of Stack Gases - Ts (°C) : 190.0  
Velocity of Stack Gases (m/sec.) : 8.36  
Flow rate of PM (LPM) : 22.0  
Flow rate of Gas (LPM) : 2.0  
Sampling condition : Isokinetic  
Protocol used : IS :11255

## TEST RESULTS

S. No.	Parameters	Protocol	Units	Results	Limits (As Per CPCB)
1.	Particulate Matter (PM)	IS 11255 (P-1), Gravimetric Method	gm/Kw-hr	0.015	0.03
2.	Nitrogen Dioxide (as NO <sub>2</sub> )	IS 11255 (P-7)	gm/Kw-hr	0.291	0.67
3.	Total Hydrocarbon as Methane	VEL/ENV/STP/ST/FGA/01, Issue No.- 01,01/11/21	gm/Kw-hr	0.084	0.19
4.	Carbon Monoxide (as CO)	VEL/ENV/STP/ST/FGA/01, Issue No.- 01,01/11/21	gm/Kw-hr	0.438	3.5
5.	Sulphur Dioxide (as SO <sub>2</sub> )	IS: 11255 (P-2), Titrimetric Method	gm/Kw-hr	0.091	Not Specified

\*\*\*End of Report\*\*\*

Reviewed By:   
03/06/2024

  
डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा कनेक्टिविटी केन्द्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Connectivity (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507

Authorized Signatory:   
03/06/2024

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# Vardan EnviroLab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

**Sample Number:** VEL/GCNEP/AP/04  
**Name & Address of Party:** M/s GCNEP, Department of Atomic Energy,  
Government of India  
at Village- Kheri Jasaur and Jasaur Kheri,  
Bhadurgarh, District- Jhajjar, Haryana.

**Report No.:** VEL/AP/2405/29/004  
**Format No.:** 7.8 F-03  
**Party Reference No.:** NIL  
**Reporting Date:** 03/06/2024  
**Receipt Date:** 29/05/2024

**Sample Description :** DG SET NOISE MONITORING

### General Information:-

**Sample collected by** : Vardan EnviroLab Representative  
**Sampling Location** : DG Area (250 KVA)  
**Instrument Used** : Sound Level Meter  
**Instrument Calibration Status** : Calibrated  
**Meteorological condition during monitoring** : Clear Sky  
**Date of Monitoring** : 27/05/2024  
**Time of Monitoring** : 11:00 AM To 11:30 AM  
**Surrounding Activity** : Human & Vehicular Activities  
**Scope of Monitoring** : Regulatory Requirement  
**Control measure if Any** : Acoustic enclosure  
**Sampling & Analysis Protocol** : IS-4758  
**Sampling Duration** : 30 Minutes  
**Parameter Required** : Leq & Insertion Loss

S. No.	Parameters	Protocol	Open the Canopy of DG Set Result dB(A)	Close the Canopy of DG Set (0.5 Meter Distance) Result dB(A)	Insertion Loss
1.	L <sub>eq</sub>	IS-4758	97.8	71.7	26.1
2.	CPCB Limit in dB(*A)	-	--	75.00 max.	25.00 min.

Note: \* A "decibel" is a unit in which noise is measured



Reviewed By

\*\*\*End of Report\*\*\*

*Dr. Deep Prakash*

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा सल्लागारी केंद्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy, Pannosar (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507



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# Vardan EnviroLab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

**Test Report**

Sample Number: VEL/GCNEP/AP/05  
Name & Address of Party: M/s GCNEP, Department of Atomic Energy, Government of India  
at Village- Kheri Jasaur and Jasaur Kheri, Bhadurgarh, District- Jhajjar, Haryana.

Report No.: VEL/AP/2405/29/005  
Format No.: 7.8 F-03  
Party Reference No.: NIL  
Reporting Date: 03/06/2024  
Receipt Date: 29/05/2024

Sample Description : DG SET NOISE MONITORING

## General Information:-

Sample collected by : Vardan EnviroLab Representative  
Sampling Location : DG Area (250 KVA)  
Instrument Used : Sound Level Meter  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 27/05/2024  
Time of Monitoring : 11:00 AM To 11:30 AM  
Surrounding Activity : Human & Vehicular Activities  
Scope of Monitoring : Regulatory Requirement  
Control measure if Any : Acoustic enclosure  
Sampling & Analysis Protocol : IS-4758  
Sampling Duration : 30 Minutes  
Parameter Required : Leq & Insertion Loss

S. No.	Parameters	Protocol	Open the Canopy of DG Set Result dB(A)	Close the Canopy of DG Set (0.5 Meter Distance) Result dB(A)	Insertion Loss
1.	L <sub>eq</sub>	IS-4758	96.7	70.7	26.0
2.	CPCB Limit in dB(*A)	-	--	75.00 max.	25.00 min.

Note\* A "decibel" is a unit in which noise is measured

\*\*\*End of Report\*\*\*

Reviewed By

  
08/06/2024



डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा प्रयोगशाला केंद्र (जी.सी.ए.ई.पी.)  
Global Centre for Nuclear Energy, Research (G.C.N.E.R.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) - 124507

Authorized Signatory

  
Authorized Signatory

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# Vardan EnviroLab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

**Test Report**

Sample Number: VEL/GCNEP/AP/06  
Name & Address of Party: M/s GCNEP, Department of Atomic Energy, Government of India at Village- Kheri Jasaur and Jasaur Kheri, Bhadurgarh, District- Jhajjar, Haryana.

Report No.: VEL/AP/2405/29/006  
Format No.: 7.8 F-03  
Party Reference No.: NIL  
Reporting Date: 03/06/2024  
Receipt Date: 29/05/2024

Sample Description : DG SET NOISE MONITORING

## General Information:-

Sample collected by : Vardan EnviroLab Representative  
Sampling Location : DG Area (320 KVA)  
Instrument Used : Sound Level Meter  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 27/05/2024  
Time of Monitoring : 11:00 AM To 11:30 AM  
Surrounding Activity : Human & Vehicular Activities  
Scope of Monitoring : Regulatory Requirement  
Control measure if Any : Acoustic enclosure  
Sampling & Analysis Protocol : IS-4758  
Sampling Duration : 30 Minutes  
Parameter Required : Leq & Insertion Loss

S. No.	Parameters	Protocol	Open the Canopy of DG Set Result dB(A)	Close the Canopy of DG Set (0.5 Meter Distance) Result dB(A)	Insertion Loss
1.	L <sub>eq</sub>	IS-4758	99.5	73.4	26.1
2.	CPCB Limit in dB(*A)	-	--	75.00 max.	25.00 min.

Note: \* A "decibel" is a unit in which noise is measured

\*\*\*End of Report\*\*\*

Reviewed By



*Dr. Deep Prakash*

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा सहयोगी केंद्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507

Authorized Signatory



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# Vardan Envirolab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/GCNEP/AP/07  
Name & Address of Party: M/s GCNEP, Department of Atomic Energy, Government of India at Village- Kheri Jasaur and Jasaur Kheri, Bhadurgarh, District- Jhajjar, Haryana.

Report No.: VEL/AP/2405/29/007  
Format No.: 7.8 F-03  
Party Reference No.: NIL  
Reporting Date: 03/06/2024  
Receipt Date: 29/05/2024

Sample Description : DG SET NOISE MONITORING

### General Information:-

Sample collected by : Vardan EnviroLab Representative  
Sampling Location : DG Area (750 KVA)  
Instrument Used : Sound Level Meter  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 27/05/2024  
Time of Monitoring : 11:00 AM To 11:30 AM  
Surrounding Activity : Human & Vehicular Activities  
Scope of Monitoring : Regulatory Requirement  
Control measure if Any : Acoustic enclosure  
Sampling & Analysis Protocol : IS-4758  
Sampling Duration : 30 Minutes  
Parameter Required : Leq & Insertion Loss

S. No.	Parameters	Protocol	Open the Canopy of DG Set Result dB(A)	Close the Canopy of DG Set (0.5 Meter Distance) Result dB(A)	Insertion Loss
1.	L <sub>eq</sub>	IS-4758	98.6	72.4	26.2
2.	CPCB Limit in dB(*A)	-	--	75.00 max.	25.00 min.

Note- \* A "decibel" is a unit in which noise is measured

\*\*\*End of Report\*\*\*

Reviewed By



Signature of the authorized signatory.

Authorized Signatory



डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय सुरक्षा संवेगशील केंद्र (जी सी एन ई पी)  
Global Centre for Nuclear Energy, Peace and Safety (GCNEP)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) - 124507

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# Vardan EnviroLab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

**Test Report**

Sample Number: VEL/GCNEP/AP/08  
Name & Address of Party: M/s GCNEP, Department of Atomic Energy, Government of India  
at Village- Kheri Jasaur and Jasaur Kheri, Bhadurgarh, District- Jhajjar, Haryana.

Report No.: VEL/AP/2405/29/008  
Format No.: 7.8 F-03  
Party Reference No.: NIL  
Reporting Date: 03/06/2024  
Receipt Date: 29/05/2024

Sample Description : DG SET NOISE MONITORING


## General Information:-


Sample collected by : Vardan EnviroLab Representative  
Sampling Location : DG Area (750 KVA)  
Instrument Used : Sound Level Meter  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 27/05/2024  
Time of Monitoring : 11:00 AM To 11:30 AM  
Surrounding Activity : Human & Vehicular Activities  
Scope of Monitoring : Regulatory Requirement  
Control measure if Any : Acoustic enclosure  
Sampling & Analysis Protocol : IS-4758  
Sampling Duration : 30 Minutes  
Parameter Required : Leq & Insertion Loss

S. No.	Parameters	Protocol	Open the Canopy of DG Set Result dB(A)	Close the Canopy of DG Set (0.5 Meter Distance) Result dB(A)	Insertion Loss
1.	L <sub>eq</sub>	IS-4758	98.5	72.6	25.9
2.	CPCB Limit in dB(*A)	-	--	75.00 max.	25.00 min.

Note: \* A "decibel" is a unit in which noise is measured

\*\*\*End of Report\*\*\*

Reviewed By  
  
03/06/2024

  
डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा साझेदारी केंद्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507

Authorized Signatory  
  
03/06/2024  
Authorized Signatory

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# Vardan Envirolab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

<b>Sample Number:</b>	VEL/GCNEP/PE/01	<b>Report No.:</b>	VEL/PE/2405/29/001
<b>Name &amp; Address of Party</b>	M/s GCNEP, Department of Atomic Energy, Government of India, at Village- Kheri Jasaur and Jasaur Kheri, Bhadurgarh, District- Jhajjar, Haryana.	<b>Format No.:</b>	7.8 F-03
		<b>Party Reference No.:</b>	NIL
		<b>Reporting Date:</b>	03/06/2024
		<b>Period of Analysis:</b>	29/05/2024 to 03/06/2024
<b>Sample Description:</b>	SOIL	<b>Receipt Date:</b>	29/05/2024
<b>Sampling Location:</b>	School Building Area	<b>Sampling Date:</b>	27/05/2024
<b>Sample Collected by:</b>	Vardan Enviro Lab Representative	<b>Type of Sampling:</b>	Composite
<b>Sampling &amp; Analysis Protocol:</b>	I IS 2720 & STP	<b>Sampling Quantity:</b>	2.0 Kg
		<b>Packing Status:</b>	Temp Sealed

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS : 2720 (P-26)	7.65	--
2.	Conductivity	IS:14767	0.255	mS/cm
3.	Soil Texture	VEL/STP/EN/64, Issue No.- 01, 01/11/2021	Sandy loam	--
4.	Color	VEL/STP/EN/67, Issue No.- 01, 01/11/2021	Yellowish Brown	--
5.	Water holding capacity	VEL/STP/EN/86, Issue No.- 01, 01/11/2021	28.12	%
6.	Bulk density	VEL/STP/EN/59, Issue No.- 01, 01/11/2021	1.45	gm/cc
7.	Chloride as Cl	VEL/STP/EN/69, Issue No.- 01, 01/11/2021	125.23	mg/100g
8.	Calcium as Ca	VEL/STP/EN/72, Issue No.- 01, 01/11/2021	132.45	mg/100g
9.	Sodium as Na	VEL/STP/EN/62, Issue No.- 01, 01/11/2021	140.26	mg/kg
10.	Potassium as K	VEL/STP/EN/61, Issue No.- 01, 01/11/2021	95.20	kg/hect.
11.	Organic Matter	IS 2720 (P-22), Titrimetric Method	0.42	%
12.	Magnesium as Mg	VEL/STP/EN/72, Issue No. 01, 01/11/2021	22.12	mg/100g
13.	Available Nitrogen as N	IS:14684 Distillation Method	145.23	kg/hect.
14.	Available Phosphorus	VEL/STP/EN/73, Issue No.- 01, 01/11/2021	36.23	kg/hect.
15.	Zinc (as Zn)	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	12.45	mg/kg
16.	Manganese (as Mn)	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	1.75	mg/kg
17.	Lead (as Pb)	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	0.65	mg/kg
18.	Cadmium (as Cd)	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	BLQ(LOQ-0.5)	mg/kg
19.	Chromium (as Cr)	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	3.25	mg/kg
20.	Copper (as Cu)	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	2.56	mg/kg

BLQ-Below Limit of Quantification ,LOQ-Limit of Quantification..

\*\*\*End of Report\*\*\*

Reviewed By



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डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नामि केंद्र, जल संशोधन मंडल (विश्वविद्यालय, एन.ई.पी.)  
Global Centre for Namik, JAL SANSHODHAN MANDAL (UNIVERSITY, N.E.P.)  
प.ऊ.वि., भारत सरकार, आ.आ.ए., एन.ई.पी. केन्द्र, इंदौर  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124307





# Vardan Envirolab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number:	VEL/GCNEP/PE/02	Report No.:	VEL/PE/2405/29/002
Name & Address of the Project:	M/s GCNEP, Department of Atomic Energy, Government of India, at Village- Kheri Jasaur and Jasaur Kheri, Bhadurgarh, District- Jhajjar, Haryana	Format No.:	7.8 F-03
		Party Reference No.:	NIL
		Reporting Date:	03/06/2024
		Period of Analysis:	29/05/2024 to 03/06/2024
		Receipt Date:	29/05/2024
Sample Description:	Waste Water (STP Inlet)	Sampling Date:	27/05/2024
Sampling Location:	STP Plant	Sampling Quantity:	2.0 Ltr. + 250 ml
Sample Collected By:	Vardan Envirolab Representative	Analysis Protocol:	IS 3025 & APHA 23 <sup>rd</sup> Edition
Parameter Required:	As per Work Order	Preservation:	Ice Box

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS:3025 (P-11):2022	6.75	--
2.	Total Suspended Solids	IS: 3025 (P-14) (Gravimetric)	250.00	mg/l
3.	Total Nitrogen	IS:3025 (P-34)	18.20	mg/l
4.	BOD (.3 Days at 27°C)	IS 3025 (Part-44)	155.00	mg/l
5.	COD	APHA, 5220 B Open Reflux Method:2017	525.00	mg/l
6.	Total Phosphate (as PO4)	IS 3025 (P-31) Sec:1 : 2022 (Stannous Chloride Method)	5.20	mg/l



Reviewed By

*Dr. Deep Prekash*

डॉ. दीप प्रकाश / Dr. Deep Prekash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा केंद्र (ग्लोबल सेंटर फॉर न्यूक्लियर एनर्जी)  
Global Centre for Nuclear Energy Research (G.C.N.E.R.)  
प.ऊ.वि., भारत सरकार / P.U.V., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507



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# Vardan Envirolab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/PE/02		Report No. : VEL/PE/2405/29/002		
7.	Feecal Coliform	IS 1622:1981 (RA-2019)	1600	MPN/100ml

\*\*\*End of Report\*\*\*



Reviewed By

*Dr. Deep Prakash*

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा कार्यकारी केंद्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) - 124307



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# Vardan Envirolab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number:	VEL/GCNEP/PE/03	Report No.:	VEL/PE/2405/29/003
Name & Address of the Project:	M/s GCNEP, Department of Atomic Energy, Government of India, at Village- Kheri Jasaur and Jasaur Kheri, Bhadurgarh, District- Jhajjar, Haryana	Format No.:	7.8 F-03
		Party Reference No.:	NIL
		Reporting Date:	03/06/2024
		Period of Analysis:	29/05/2024 to 03/06/2024
		Receipt Date:	29/05/2024
Sample Description:	Waste Water (STP Outlet)	Sampling Date:	27/05/2024
Sampling Location:	STP Plant	Sampling Quantity:	2.0 Ltr. + 250ml
Sample Collected By:	Vardan Envirolab Representative	Analysis Protocol:	IS 3025 & APHA 23 <sup>rd</sup> Edition
Parameter Required:	As per Work Order	Preservation:	Ice Box

S. No.	Parameter	Test-Method	Result	Unit	Prescribed Limits* HSPCB
1.	pH (at 25 °C)	IS:3025 (P-11):2022	7.55	--	5.5-9.0
2.	Total Suspended Solids	IS: 3025 (P-14) (Gravimetric)	5.00	mg/l	20.0
3.	Total Nitrogen	IS:3025 (P-34)	1.35	mg/l	10.0
4.	BOD (.3 Days at 27°C)	IS 3025 (Part-44)	6.50	mg/l	10.0
5.	COD	APHA, 5220 B Open Reflux Method:2017	32.00	mg/l	50.0
6.	Total Phosphate (as PO4)	IS 3025 (P-31) Sec:1 : 2022 (Stannous Chloride Method)	BLQ(LOQ-0.6)	mg/l	--



Reviewed By

Dr. Prakash

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय सुरक्षा एवं प्रतिक्रिया केंद्र (जी.सी.ए.पी.)  
Global Centre for Nuclear Energy Protection (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana)-124507



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# Vardan Envirolab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/PE/03			Report No. : VEL/PE/2405/29/003		
7.	Feacal Coliform	IS 1622:1981 (RA-2019)	80	MPN/100ml	--

BLQ-Below Limit of Quantification, LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



Reviewed By

*Dr. Deep Prakash*

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा सहयोगी केन्द्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.ऊ.नि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507



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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
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## Test Report

Sample Number:	VEL/GCNEP/PE/04	Report No.:	VEL/PE/2405/29/004
Name & Address of the Project:	M/s GCNEP, Department of Atomic Energy, Government of India, at Village- Kheri Jasaur and Jasaur Kheri, Bhadurgarh, District- Jhajjar, Haryana	Format No.:	7.8 F-03
		Party Reference No.:	NIL
		Reporting Date:	03/06/2024
		Period of Analysis:	29/05/2024 to 03/06/2024
		Receipt Date:	29/05/2024
Sample Description:	Waste Water (STP Inlet)	Sampling Date:	27/05/2024
Sampling Location:	STP Plant (Township)	Sampling Quantity:	2.0 Ltr. + 250 ml
Sampling By:	Vardan Envirolab Representative	Analysis Protocol:	IS 3025 & APHA 23 <sup>rd</sup> Edition
Parameter Required:	As per Work Order	Preservation:	Ice Box

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS:3025 (P-11):2022(Using by Electrode)	6.55	--
2.	Total Suspended Solids at 105°C	IS: 3025 (P-14) : 2022 (Gravimetric Method)	260.00	mg/L
3.	Total Nitrogen (as N)	VEL/EN/STP/08	16.20	mg/L
4.	BOD (.3 Days at 27°C)	IS 3025 (Part-44) : 2023	165.00	mg/L
5.	COD at 150°C	IS:3025 P-58:2023 (Open Reflux Method)	520.00	mg/L
6.	Total Phosphate (as PO4)	IS 3025 (P-31) Sec:1 : 2022 (Stannous Chloride Method)	4.20	mg/L



Reviewed By

Dr. Tech. In. 03/06/2024

Dr. Prakash

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा साझेदारी केन्द्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507



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Dr. Prakash

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# Vardan Envirolab LLP


Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/GCNEP/PE/04		Report No. : VEL/PE/2405/29/004		
7.	Feecal Coliform	IS 1622:1981 (RA-2019)	900	MPN/100ml

\*\*\*End of Report\*\*\*

Reviewed By  


  
डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा साझेदारी केंद्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
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बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507

  
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## Test Report

Sample Number:	VEL/GCNEP/PE/05	Report No.:	VEL/PE/2405/29/005
Name & Address of the Project:	M/s GCNEP, Department of Atomic Energy, Government of India, at Village- Kheri Jasaur and Jasaur Kheri, Bhadurgarh, District- Jhajjar, Haryana	Format No.:	7.8 F-03
		Party Reference No.:	NIL
		Reporting Date:	03/06/2024
		Period of Analysis:	29/05/2024 to 03/06/2024
		Receipt Date:	29/05/2024
Sample Description:	Waste Water (STP Outlet)	Sampling Date:	27/05/2024
Sampling Location:	STP Plant (Township)	Sampling Quantity:	2.0 Ltr. + 250ml
Sampling By:	Vardan Envirolab Representative	Analysis Protocol:	IS 3025 & APHA 23 <sup>rd</sup> Edition
Parameter Required:	As per Work Order	Preservation:	Ice Box

S. No.	Parameter	Test-Method	Result	Unit	Prescribed Limits* HSPCB
1.	pH (at 25 °C)	IS:3025 (P-11):2022(Using by Electrode)	7.65	--	5.5-9.0
2.	Total Suspended Solids at 105°C	IS: 3025 (P-14) : 2022 (Gravimetric Method)	6.00	mg/L	20.0
3.	Total Nitrogen (as N)	VEL/EN/STP/08	1.20	mg/L	10.0
4.	BOD (.3 Days at 27°C)	IS 3025 (Part-44) : 2023	7.50	mg/L	10.0
5.	COD at 150°C	IS:3025 P-58:2023 (Open Reflux Method)	30.00	mg/L	50.0
6.	Total Phosphate (as PO4)	IS 3025 (P-31) Sec:1 : 2022 (Stannous Chloride Method)	BLQ(LOQ-0.6)	mg/L	--



Reviewed By

*Dr. Deep Prakash*

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा साझेदारी केन्द्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507



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# Vardan Envirolab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/GCNEP/PE/05		Report No. : VEL/PE/2405/29/005			
7.	Faecal Coliform	IS 1622:1981 (RA-2019)	70	MPN/100ml	--

BLQ-Below Limit of Quantification, LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*

Reviewed By  
  
03/06/2024

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा सहयोगी केन्द्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
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03/06/2024

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# Vardan Envirolab LLP


Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number:	VEL/GCNEP/PE/06	Report No.:	VEL/PE/2405/29/006
Name & Address of the Project:	M/s GCNEP, Department of Atomic Energy, Government of India, at Village- Kheri Jasaur and Jasaur Kheri, Bhadurgarh, District- Jhajjar, Haryana	Format No.:	7.8 F-03
		Party Reference No.:	NIL
		Reporting Date:	03/06/2024
		Period of Analysis:	29/05/2024 to 03/06/2024
		Receipt Date:	29/05/2024
Sample Description:	Waste Water (STP Inlet)	Sampling Date:	27/05/2024
Sampling Location:	STP Plant (Campus Side)	Sampling Quantity:	2.0 Ltr. + 250 ml
Sampling By:	Vardan Envirolab Representative	Analysis Protocol:	IS 3025 & APHA 23 <sup>rd</sup> Edition
Parameter Required:	As per Work Order	Preservation:	Ice Box

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS:3025 (P-11):2022(Using by Electrode)	6.48	--
2.	Total Suspended Solids at 105°C	IS: 3025 (P-14) : 2022 (Gravimetric Method)	247.00	mg/L
3.	Total Nitrogen (as N)	VEL/EN/STP/08	14.20	mg/L
4.	BOD (.3 Days at 27°C)	IS 3025 (Part-44) : 2023	156.00	mg/L
5.	COD at 150°C	IS:3025 P-58:2023 (Open Reflux Method)	510.00	mg/L
6.	Total Phosphate (as PO4)	IS 3025 (P-31) Sec:1 : 2022 (Stannous Chloride Method)	5.36	mg/L

Reviewed By:   
03/06/2024  
GURGAON

  
डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा साझेदारी केंद्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
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Customer Care: 8010127843, Ph: 0124-4343750, 9810355569, 9953147268 | E-mail: lab@vardan.co.in, bd@vardan.co.in



# Vardan Envirolab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

VEL/GCNEP/PE/06		Report No: VEL/PE/2405/29/006	
7.	Faecal Coliform	IS 1622:1981 (RA-2019)	1600 MPN/100ml

\*\*\*End of Report\*\*\*

Reviewed By  
*03/06/2024*

*Deep Prakash*  
डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा समझौता केंद्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507

*03/06/2024*  
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# Vardan Envirolab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number:	VEL/GCNEP/PE/07	Report No.:	VEL/PE/2405/29/007
Name & Address of the Project:	M/s GCNEP, Department of Atomic Energy, Government of India, at Village- Kheri Jasaur and Jasaur Kheri, Bhadurgarh, District- Jhajjar, Haryana	Format No.:	7.8 F-03
		Party Reference No.:	NIL
		Reporting Date:	03/06/2024
		Period of Analysis:	29/05/2024 to 03/06/2024
		Receipt Date:	29/05/2024
Sample Description:	Waste Water (STP Outlet)	Sampling Date:	27/05/2024
Sampling Location:	STP Plant (Campus Side)	Sampling Quantity:	2.0 Ltr. + 250ml
Sampling By:	Vardan Envirolab Representative	Analysis Protocol:	IS 3025 & APHA 23 <sup>rd</sup> Edition
Parameter Required:	As per Work Order	Preservation:	Ice Box

S. No.	Parameter	Test-Method	Result	Unit	Prescribed Limits* HSPCB
1.	pH (at 25 °C)	IS:3025 (P-11):2022(Using by Electrode)	7.52	--	5.5-9.0
2.	Total Suspended Solids at 105°C	IS: 3025 (P-14) : 2022 (Gravimetric Method)	5.30	mg/L	20.0
3.	Total Nitrogen (as N)	VEL/EN/STP/08	2.45	mg/L	10.0
4.	BOD (.3 Days at 27°C)	IS 3025 (Part-44) : 2023	8.00	mg/L	10.0
5.	COD at 150°C	IS:3025 P-58:2023 (Open Reflux Method)	33.00	mg/L	50.0
6.	Total Phosphate (as PO4)	IS 3025 (P-31) Sec:1 : 2022 (Stannous Chloride Method)	BLQ(LOQ-0.6)	mg/L	--

Reviewed By  03/06/2024  
GURGAON

  
डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
देशिक नाभिकीय ऊर्जा सहकारी केन्द्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507

  
Authorized Signatory  
Dr. Shri Prakash Singh  
Authorized Signatory

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# Vardan Envirolab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/GCNEP/PE/07			Report No. : VEL/PE/2405/29/007		
7.	Feecal Coliform	IS 1622:1981 (RA-2019)	70	MPN/100ml	--

BLQ-Below Limit of Quantification, LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*

Reviewed By



*Dr. Deep Prakash*

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
ग्लोबल नानोकीम कर्मों केंद्र (जी.सी.एन.ई.पी.)  
Global Centre for Nanoe-Enviromental (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507



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# Vardan Envirolab LLP

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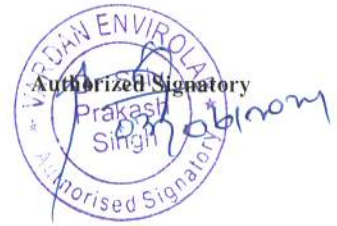
## Test Report

Sample Number:	VEL/GCNEP/PE/08	Report No.:	VEL/PE/2405/29/008
Name & Address of the Project:	M/s GCNEP, Department of Atomic Energy, Government of India, at Village- Kheri Jasaur and Jasaur Kheri, Bhadurgarh, District- Jhajjar, Haryana	Format No.:	7.8 F-03
		Party Reference No.:	NIL
		Reporting Date:	03/06/2024
		Period of Analysis:	29/05/2024 to 03/06/2024
		Receipt Date:	29/05/2024
Sample Description:	Waste Water (STP Inlet)	Sampling Date:	27/05/2024
Sampling Location:	STP Plant (Township)	Sampling Quantity:	2.0 Ltr. + 250 ml
Sampling By:	Vardan Envirolab Representative	Analysis Protocol:	IS 3025 & APHA 23 <sup>rd</sup> Edition
Parameter Required:	As per Work Order	Preservation:	Ice Box

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS:3025 (P-11):2022(Using by Electrode)	6.63	--
2.	Total Suspended Solids at 105°C	IS: 3025 (P-14) : 2022 (Gravimetric Method)	245.00	mg/L
3.	Total Nitrogen (as N)	VEL/EN/STP/08	12.20	mg/L
4.	BOD (.3 Days at 27°C)	IS 3025 (Part-44) : 2023	145.00	mg/L
5.	COD at 150°C	IS:3025 P-58:2023 (Open Reflux Method)	456.00	mg/L
6.	Total Phosphate (as PO4)	IS 3025 (P-31) Sec:1 : 2022 (Stannous Chloride Method)	4.69	mg/L

Reviewed By  
  
03/06/2024

  
डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा सहकारिता केन्द्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana)-124507

Authorized Signatory  
  
Prakash Singh  
Authorized Signatory

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ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/GCNEP/PE/08		Report No. : VEL/PE/2405/29/008		
7.	Feecal Coliform	IS 1622:1981 (RA-2019)	900	MPN/100ml

\*\*\*End of Report\*\*\*

Reviewed By  
*03/06/2024*

*Dr. Prakash*  
डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
शिवक नाभिकीय ऊर्जा शोधकेंद्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507

*Dr. Prakash*  
Authorized Signatory  
*03/06/2024*

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# Vardan Envirolab LLP


Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number:	VEL/GCNEP/PE/09	Report No.:	VEL/PE/2405/29/009
Name & Address of the Project:	M/s GCNEP, Department of Atomic Energy, Government of India, at Village- Kheri Jasaur and Jasaur Kheri, Bhadurgarh, District- Jhajjar, Haryana	Format No.:	7.8 F-03
		Party Reference No.:	NIL
		Reporting Date:	03/06/2024
		Period of Analysis:	29/05/2024 to 03/06/2024
		Receipt Date:	29/05/2024
Sample Description:	Waste Water (STP Outlet)	Sampling Date:	27/05/2024
Sampling Location:	STP Plant (Township)	Sampling Quantity:	2.0 Ltr. + 250ml
Sampling By:	Vardan Envirolab Representative	Analysis Protocol:	IS 3025 & APHA 23 <sup>rd</sup> Edition
Parameter Required:	As per Work Order	Preservation:	Ice Box

S. No.	Parameter	Test-Method	Result	Unit	Prescribed Limits* HSPCB
1.	pH (at 25 °C)	IS:3025 (P-11):2022(Using by Electrode)	7.40	--	5.5-9.0
2.	Total Suspended Solids at 105°C	IS: 3025 (P-14) : 2022 (Gravimetric Method)	7.32	mg/L	20.0
3.	Total Nitrogen (as N)	VEL/EN/STP/08	2.45	mg/L	10.0
4.	BOD (.3 Days at 27°C)	IS 3025 (Part-44) : 2023	6.00	mg/L	10.0
5.	COD at 150°C	IS:3025 P-58:2023 (Open Reflux Method)	26.00	mg/L	50.0
6.	Total Phosphate (as PO4)	IS 3025 (P-31) Sec:1 : 2022 (Stannous Chloride Method)	BLQ(LOQ-0.6)	mg/L	--

Reviewed By:   
Anshu Nayak  
Tech. Manager  
03/06/2024

  
Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा केंद्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Research (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507

Authorized Signatory  
  
Prakash  
03/06/2024  
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# Vardan Envirolab LLP

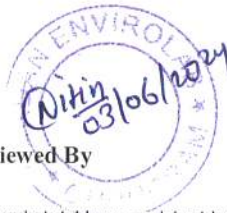
Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/GCNEP/PE/09			Report No. : VEL/PE/2405/29/009		
7.	Feecal Coliform	IS 1622:1981 (RA-2019)	60	MPN/100ml	--

BLQ-Below Limit of Quantification, LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



Reviewed By

*Prakash*

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा साझेदारी केंद्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
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# Vardan Envirolab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

**Sample Number:** VEL/GCNEP/W/01 **Report No.:** VEL/W/2405/29/001  
**Name & Address of Party:** M/s GCNEP, Department of Atomic Energy, **Format No.:** 7.8 F-03  
Government of India, at Village- Kheri Jasaur and Jasaur Kheri, Bhadurgarh, District- Jhajjar, **Party Reference No.:** NIL  
**Haryana. Reporting Date:** 03/06/2024  
**Sample Description:** Drinking Water Sample **Period of Analysis:** 29/05/2024 to 03/06/2024  
**Sampling Location:** Office Area **Receipt Date:** 29/05/2024  
**Sample Collected by:** VardanEnviro Lab Representative **Sampling Date:** 27/05/2024  
**Environment Condition:** 25±2°C **Sampling Quantity:** 5.0 Ltr + 250 ml  
**Sampling Type:** Grab

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	IS3025 (P-11)	7.55	--	6.5 to 8.5	No Relaxation
2.	Colour	IS3025 (P-4)	BLQ(LOQ-1.0)	Hazen	5	15
3.	Turbidity	IS3025 (P-10)	BLQ(LOQ-1.0)	NTU	1	5
4.	Odour	IS3025 (P-5)	Agreeable	--	Agreeable	Agreeable
5.	Taste	IS3025 (P-8)	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness (as CaCO <sub>3</sub> )	IS3025 (P-21)	85.56	mg/l	200	600
7.	Calcium (as Ca)	IS3025 (P-40)	18.24	mg/l	75	200
8.	Alkalinity (as CaCO <sub>3</sub> )	IS3025 (P-23)	65.14	mg/l	200	600
9.	Chloride (as Cl)	IS 3025 (P-32)	15.14	mg/l	250	1000
10.	Cyanide (as CN)	IS 3025 (P-27)	BLQ(LOQ-0.02)	mg/l	0.05	No Relaxation
11.	Magnesium (as Mg)	IS3025 (P-46)	9.71	mg/l	30	100
12.	Total Dissolved Solids	IS3025 (P-16)	145.00	mg/l	500	2000
13.	Sulphate(as SO <sub>4</sub> )	IS3025 (P-24)	8.14	mg/l	200	400
14.	Fluoride (as F)	IS 3025 (P-60)	BLQ(LOQ-0.2)	mg/l	1.0	1.5
15.	Nitrate (as NO <sub>3</sub> )	IS3025 (P-34)	BLQ(LOQ-1.0)	mg/l	45	No Relaxation
16.	Iron (as Fe)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	1.0	No relaxation
17.	Aluminum (as Al)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.005)	mg/l	0.03	0.2
18.	Boron	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	0.5	2.4
19.	Total Chromium (as Cr)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.05	No Relaxation



Reviewed By

*Dr. Deep Prakash*

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
गैलबल सेंटर फॉर न्यूक्लियर एनर्जी रिसर्च (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Research (GCNERP)  
प.ऊ.वि., भारत सरकार / D.A.L., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507



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# Vardan Envirolab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample No.: VEL/GCNEP/W/01

Report No: VEL/W/2405/29/001

S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
1.	Phenolic Compounds	IS3025 (P-43)	BLQ(LOQ-0.0005)	mg/l	0.001	0.002
2.	Mineral Oil	IS 3025 (P-39)	BLQ(LOQ-0.1)	mg/l	1.0	No Relaxation
3.	Anionic Detergents (as MBAS)	IS3025 (P-68)	BLQ(LOQ-0.05)	mg/l	0.2	1.0
4.	Zinc (as Zn)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	5	15
5.	Copper (as Cu)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.05	1.5
6.	Manganese (as Mn)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	0.1	0.3
7.	Cadmium (as Cd)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.003	No Relaxation
8.	Lead (as Pb)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.01	No Relaxation
9.	Selenium (as Se)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.001)	mg/l	0.01	No Relaxation
10.	Arsenic (as As)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.005)	mg/l	0.01	No Relaxation
11.	Mercury (as Hg)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.0005)	mg/l	0.001	No Relaxation

Reviewed By  
*[Signature]*  
Manager

*[Signature]*  
Dr. Deep Prakash  
ऑ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा केंद्रीय संस्थान (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Research (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बलदुर्गढ़ (हरियाणा) / Bardsrghar (Haryana) - 124507

Authorized Signatory  
*[Signature]*  
VARDAN ENVIROLAB  
GURUGRAM

### Terms & Conditions

- The results reported relate only to the samples tested. In case sample is not drawn the results apply to the sample as received.
- This test report in full or in part, shall not be reproduced in any court of law without prior written approval of the laboratory.
- To confirm the authenticity of this certificate of analysis, please contact us through email at lab@vardan.co.in
- Laboratory is not responsible for the authenticity of photocopied test report. The test samples will be retained only for specific period
- The report no. with Suffix A-Amended Report.
- This test report will not be used for publicity or advertising or media purpose without prior written permission on the laboratory.
- Giving opinions does not imply endorsement of the tested sample by the lab. Under no circumstances, the lab accepts any liability caused by the use or misuse of the test report.





# Vardan Envirolab LLP

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample No.: VEL/GCNEP/W/01			Report No: VEL/W/2405/29/001			
S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	Total Coliform	IS 15185	Absent	/100ml	Shall not be Detectable in any 100 ml Sample	-
2.	E. Coli	IS 15195	Absent	/100ml	Shall not be Detectable in any 100 ml Sample	-

BLQ-Below Limit of Quantification, LOQ- Limit of Quantification.

\*\*\*End of Report\*\*\*



*Deep Prakash*

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
(श्वेत नाभिकीय ऊर्जा साझेदारी केन्द्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507



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- Laboratory is not responsible for the authenticity of photocopied test report. The test samples will be retained only for specific period
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**ANNEXURE VIII**



*Prakash*

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
ग्लोबल नाभिकीय ऊर्जा साझेदारी केंद्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507



ANNEXURE IX



Cement storage



Batching Plant

*Dr. Deep Prakash*

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
ग्लोबल नाभिकीय ऊर्जा साझेदारी केन्द्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.क.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507

CAMPUS SITE			
Sr. No.	Load Description	Connected Load (CL) in kVA	Maximum Demand (MD) in kVA
1.	Central building	1500	750
2.	SARRT	673	150
3.	SNMCS	192	150
4.	SNSS	591	450
5.	SANESS	2000	800
6.	SANESS High Bay	2000	800
7.	SRSS	1500	450
8.	HVAC	3000	2400
9.	Domestic and flushing Panel	75	40
10.	Firefighting Panel	160	160
11.	STP	150	100
12.	Pump Room	200	100
13.	External Road Lighting	15	15
	<b>Total</b>	<b>12056</b>	<b>6365</b>
	<b>TOTAL LOAD (WITH DIVERSITY) 80%</b>		<b>5092</b>
	<b>SAY</b>		<b>5000 kVA</b>

*Prakash*

डॉ. दीप प्रकाश / Dr. Deep Prakash  
 परियोजना निदेशक / Project Director  
 वैश्विक नाभिकीय ऊर्जा शोधकारी केन्द्र (जी.सी.एन.ई.पी.)  
 Global Centre for Nuclear Energy Research (G.C.N.E.P.)  
 प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
 बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) - 124507



TOWNSHIP SITE			
Sr. No.	Load Description	Connected Load (CL) in kVA	Maximum Demand (MD) in kVA
1.	Guest House-A & B	400	250
2.	Type-C	510	350
3.	Type-D	918	500
4.	Type-E	306	175
5.	Recreation Centre	300	200
6.	Dining & Party Hall	300	175
7.	Domestic and flushing Panel	50	25
8.	Fire fighting Panel	150	150
9.	STP 1 & 2	200	100
10.	External Road Lighting	15	15
11.	Public Awareness Centre	200	100
12.	Gate House	100	25
13.	Service Building	150	50
	<b>Total</b>	<b>3599</b>	<b>2115</b>
	<b>TOTAL LOAD (WITH DIVERSITY) 80%</b>		<b>1692</b>
	<b>SAY</b>		<b>1700 kVA</b>

*Dr. Prakash*

डॉ. दीप प्रकाश / Dr. Deep Prakash  
 परियोजना निदेशक / Project Director  
 (श्वेत) राष्ट्रीय ऊर्जा संशोधन केंद्र (जी.सी.एन.ई.पी.)  
 Global Centre for Nuclear Energy Promotion (G.C.N.E.P.)  
 प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
 बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507

Details of Saving in Electrical Energy in GCNEP Campus & Township by employing Energy Saving devices.

Sr. No.	With out Energy Saving Measures			With Energy Saving Measures			Energy Saved		Remarks
	Load Description	Load (kW)	Energy Consumed (kWh)	Load Description	Load (kW)	Energy Consumed (kWh)	In kWh	% Saving	
1	2	3	4	5	6	7	8	9	10
1)	<b>CAMPUS</b>								
1	T8 Fluorescent light fixtures	384 (8000 pts) @ 8 hrs per day	3072	T5- Fluorescent light fixtures	248	1984 @ 8 hrs per day	1088	35%	1) 8 Hours operation assumed 2) T8 - 36W lamp with electromagnetic ballast (12W) 3) T5- 28W lamp with electronic ballast (3W)
2	Water heater load	10	60 @ 6 hrs per day	Solar Water Heater	5	30 @ 6 hrs per day	30	50%	
3	Streetlighting with SON-T (HPSV) lamp	15	180 @ 12 hrs per day	Streetlighting with LED (50 W) fixture	5	60 @ 12 hrs per day	120	67%	

*Prakash*

श्री. दीप प्रकाश / Dr. Deep Prakash

प्रियोजना निदेशक / Project Director

शैविक नगरीय स्वतंत्रता संग्राम दिवस (श्री.बी.एन.डी.)

Global Centre for Nuclear Energy, Bhabha Nagar (GCNEP)

पु.उ.वि., भारत सरकार / D.A.E., Government of India

बाराङ्गना (हरियाणा) / Bahadurganj (Haryana) -124507



Sr. No.	With out Energy Saving Measures			With Energy Saving Measures			Energy Saved		Remarks
	Load Description	Load (kW)	Energy Consumed (kWh)	Load Description	Load (kW)	Energy Consumed (kWh)	in kWh	% Saving	
1	2	3	4	5	6	7	8	9	10
II) <b>TOWNSHIP</b>									
1	T8 Fluorescent light fixtures	124 (2600 pts)	992	T5- Fluorescent light fixtures	80	640	352	35%	1) 8 Hours operation assumed 2) T8 - 36W lamp with electromagnetic ballast (12W) 3) T5- 28W lamp with electronic ballast (3W)
2	Water heater load	54	54	Solar Water Heater	25	25	29	54%	
3	Streetlighting with SON-T (HPSV) lamp	15	180	Streetlighting with LED (50 W) fixture	5	60	120	67%	

Total Energy Saved per day = 1739 kWh

- Note:
- 1) The proposed use of Energy efficient LED luminaires for interior lighting will further result in savings up to 40% compared to conventional T-5 fluorescents lamps.
  - 2) The proposed use of roof top grid tied solar PV system will further reduce the energy demand by generation of approx. 5400 units per day considering 6 hours of sunlight.

डॉ. दीप प्रकाश / Dr. Deep Prakash

परियोजना निदेशक / Project Director

शैविक नानिकाय ऊर्जा सर्वकार संस्थान (सी.पी.एन.ई.पी.)

Global Centre for Nuclear Energy Research (GCNERP)

ए.के.डी. शारदा भवन / D.A.E., Government of India

बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana)-124507



## वन मण्डल अधिकारी (क्षेत्रीय), झज्जर

बाग जॉहआरा स्टेडियम, नजदीक DSP Residence, झज्जर  
दुरभाष 01251-257258 e-mail:- dfojajjar@yahoo.co.in, dfojajjar@rediffmail.com

सेवा में:-

Ms. Y.S. Mayya, OS  
Project Director, GCNEP  
(Global Centre for Nuclear Energy Partnership),  
DAE, Govt. of India,  
RCnD, BARC, Mumbai-85.

क्रमांक:- 3293 दिनांक:- 27.12.2013


विषय:- **Construction of Institutional Campus and Residential Township for Global Centre for Nuclear Energy Partnership (GCNEP) at Kheri-Jassor and Jassor-Kheri village, Bahadurgarh in the State of Haryana.**

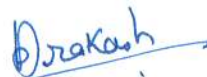
संदर्भ:- आपका पत्रांक GCNEP/81 दिनांक 26.12.2013

--00--

उपरोक्त विषय के सम्बन्ध में आप द्वारा प्रस्तुत किये गये खसरा न0 व किला न0 में किसी प्रकार की वन भूमि शामिल नहीं है। इसलिये आप द्वारा प्रस्तुत किये गये खसरा न0 व किला न0 में Institutional Campus and Residential Township for Global Centre for Nuclear Energy Partnership (GCNEP) का निर्माण करने पर इस कार्यालय को कोई आपत्ति नहीं है।

संलग्न - उपरोक्त खसरा सूची

  
वन मण्डल अधिकारी,  
झज्जर।

  
डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा साझेदारी केंद्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507



FORM NO.

13 May 2019 4:41PM 21

3

**HARYANA GOVERNMENT  
DEVELOPMENT AND PANCHAYATS DEPARTMENT  
ORDER**

No.

Whereas the Gram Panchayat Kheri Jasaur passed a resolution No. 1 dated 3.4.2010 for sale of its land measuring 123 Acre 2 Kanal 17 Marla falling in khasra Nos. 82/1(1-0), 82/2(8-0), 8(8-0), 7(8-0), 4(8-0), 9(8-0), 10(8-0), 11(8-0), 12(8-0), 13(8-0), 14(8-0), 15(8-0), 16(8-0), 17(8-0), 18(8-0), 19(8-0), 20(8-0), 21(8-0), 22(8-0), 23(8-0), 24(8-0), 25(8-0), 83/1(8-0), 2(8-0), 3(8-0), 5(5-15), 6(8-10), 7(5-12), 8(8-0), 9(8-0), 10(8-0), 11(7-12), 12(8-0), 13(8-0), 14(8-14), 15(5-3), 16(4-16), 17(8-12), 18(8-0), 19(8-0), 20(7-12), 21(7-12), 22(8-0), 23(8-0), 24(7-11), 25(3-18), 84/5/2(2-8), 8(8-0), 15(8-0), 92/5(7-2), 6(8-0), 15(8-0), 18(8-0), 17(8-0), 18(8-0), 93/3(7-11), 4(7-11), 5/1(1-3), 1(7-3), 2(7-11), 5/2(3-4), 8/1(2-12), 11(7-12), 12(8-0), 13(8-0), 14(8-0), 15/1(2-8), 15/2(2-0), 16/1(1-14), 16/2(2-14), 17(8-0), 18(8-0), 5/2(1-18), 7(8-0), 8(8-0), 9(8-0), 10(7-12), 19(8-0), 20(7-12), 23(8-0), 24(8-0), 25/1(3-4), 25/2(1-4), 94/1(8-0), 2(8-0), 3(8-0), 4(8-0), 5(8-0), 6(8-0), 7(8-0), 8(8-0), 9(8-0), 10(8-0), 11(8-0), 12(8-0), 13(8-0), 14(8-0), 15(8-0), 17(8-0), 18(8-0), 19(8-0), 20(8-0), 62/16(7-4), 25(8-0), 83/21(9-18), 22(4-16), 115/1(8-0), 2(8-0), 3(8-0), 8(8-0), 9(8-0), 10(7-8), 11(7-2), 12(8-0), 13(8-0), 17/3(2-2), 18(8-0), 19(8-0), 20(8-4), 21/2(4-12), 22(8-0), 23/1(8-13), 116/5/2(0-16), 125/1/2(2-0), 2(7-12), 3/1(3-11), 9(0-3), 10/1(0-4), 94/21(8-0), 22(8-0), 23(8-0), 24(8-0), 81/1(8-0), 2(8-0), 3(8-0), 8(8-0), 9(8-0), 10(8-0), 11(8-0), 12(8-0) & 13(8-0) and the Gram Panchayat Jasaur Kheri, Block Bahadurgarh, District Jhajjar passed a resolution No. 1 dated 8.3.2010 for sale of its land measuring 83 Acre 4 Kanal 16 Marla falling in Khasra No. 82/12(8-0), 82/13(8-0), 82/8(8-0), 82/9(8-0), 65/20(8-0), 63/6(8-0), 83/7(8-0), 83/5(8-0), 64/8(8-0), 64/9(8-0), 65/11(8-0), 65/12(8-0), 82/1(8-0), 82/20(8-0), 82/21(8-0), 82/19(8-0), 82/22(8-0), 82/10(8-0), 82/11(8-0), 30/22/2(4-8), 30/23(8-0), 30/24(8-0), 30/25/1(6-14), 50/19(8-0), 50/20(8-0), 64/1/2(4-0), 64/2(8-0), 64/3(8-0), 64/6(8-0), 64/7(8-0), 100/3(8-0), 100/4(8-0), 100/7(1-18), 100/8(1-13), 65/1(8-0), 51/2(8-0), 51/3(8-0), 51/4(10-8), 66/2(8-0), 64/4(8-0), 64/5(8-0), 51/16(8-0), 51/17(8-8), 51/24(9-12), 51/25(8-0), 50/21(8-0), 50/22(8-0), 50/23(8-0), 50/8(8-0), 60/11(8-0), 50/12(8-0), 50/13(8-0), 64/16(8-0), 64/17(8-0), 64/18(8-0), 64/19/1(4-0), 64/22/2(3-18), 64/23(8-0), 64/24(8-0), 64/25(8-0), 65/21(8-0), 51/15(11-2), 50/24(8-0), 60/25(7-12), 64/12(8-0), 64/13(8-0), 64/14(8-0), 64/15(8-0), 65/9(8-0), 65/10(8-0), 82/18(8-0), 82/23(8-0), 100/1(8-0), 100/2(8-0), 100/9(1-2), 100/10(0-18), 100/5(8-0), 100/6(1-7), 82/24(8-0), 82/25(8-0), 82/14(8-0), 82/7(8-0), 82/15(8-0), 50/16(8-0), 50/18(8-0), 51/7(6-14), 51/8(8-0), 51/9(8-0), 51/12/1(2-0), 51/13/1(7-2) & 51/14/1(3-2) (total area of both the Gram Panchayats is 206 Acre 7 Kanal 13 Marla) to the Department of Atomic Energy, Government of India for the purpose of establishing Centre of Excellence for Global Deployment of Nuclear Energy at Market rate.

Dr. Deep Prakash

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा साझेदारी केंद्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507

From

Director,  
Fire Service, Haryana,  
Panchkula.

To

M/s Global Centre for Nuclear Energy Partnership,  
Department of Atomic-Energy, Anushakti Bhawan,  
CSM Marg, Mumbai-01.

Memo No. DFS/SF/2018/962/ 113526

Dated: 19/12/18

**Subject: - Approval of Part fire fighting scheme from the fire safety point of view of the Residential Building of Phase-II Institutional Campus and Residential Township-Type-IIIC Housing Building for Global Centre for Nuclear Energy Partnership (GCNEP) at Kheri Jasaur and Jasaur Kheri Village in the State of Haryana.**

----

With reference to your letter No. FSB/175, dated 19.09.2018 on the subject cited above. In this connection, this is to inform you that the proposed building plans have been scrutinized from fire safety point of view and observed that the above said low-rise Residential building blocks are having maximum height 9.10 mtrs and consisting of G+02 upper floors. Low - Rise Residential blocks, do not fall under the purview of Haryana Fire Service Act 2009, Section 15 (1)/NBC-IV,1.2, for which clearance from the department is required.

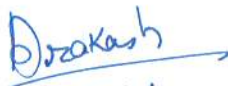
  
Deputy Director (Technical)-I,  
for Director, Haryana Fire Service,  
Panchkula.

Endst. No- DFS/SF/2018/962/

Dated

A copy is forwarded to the Fire Station Officer, Bahadurgarh (Jhajjar) with reference to his Memo No. FSB/175, dated 19.09.2018 for information and necessary action.

  
Deputy Director (Technical)-I,  
for Director, Haryana Fire Service,  
Panchkula.



डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा साझेदारी केंद्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.ऊ.वि. भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana)-124507



From

Director,  
Fire Service, Haryana,  
Panchkula.

To

M/s Global Centre for Nuclear Energy Partnership,  
Department of Atomic-Energy, Anushakti Bhawan,  
CSM Marg, Mumbai-01.

Memo No. DFS/SF/2018/963/ 113528  
Dated: 19/12/18

**Subject: - Approval of Part fire fighting scheme from the fire safety point of view of the Residential Building of Phase-II Institutional Campus and Residential Township-Type-IVD Housing Building for Global Centre for Nuclear Energy Partnership (GCNEP) at Kheri Jasaur and Jasaur Kheri Village in the State of Haryana.**


With reference to your letter No. FSB/173, dated 19.09.2018 on the subject cited above. In this connection, this is to inform you that the proposed building plans have been scrutinized from fire safety point of view and observed that the above said low-rise Residential building blocks are having maximum height 9.10 mtrs and consisting of G+02 upper floors. Low - Rise Residential blocks, do not fall under the purview of Haryana Fire Service Act 2009, Section 15 (1)/NBC-IV,1.2, for which clearance from the department is required.


  
Deputy Director (Technical)-I,  
for Director, Haryana Fire Service,  
Panchkula. 

Endst. No- DFS/SF/2018/963/

Dated

A copy is forwarded to the Fire Station Officer, Bahadurgarh (Jhajjar) with reference to his Memo No. FSB/173, dated 19.09.2018 for information and necessary action.

  
Deputy Director (Technical)-I,  
for Director, Haryana Fire Service,  
Panchkula.

  
डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा सहयोगी केंद्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बाहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507

**From** Director General  
Fire Service, Haryana Panchkula

**To** M/s GCNEP  
Kheri Jasaur Bahadurgarh Jhajjar Haryana 124505  
**Memo No. FS/2018/135 dated : 28/11/2018**

**Subject : Approval of fire fighting scheme Under 15 mtrs. from the fire safety point of view for Group D- Assembly Building at GCNEP Kheri Jasaur Bahadurgarh Jhajjar Haryana 124505 of GCNEP :**

Reference your Transaction Id 070421823000197 dated: 06/09/2018 on the subject cited above.

Your case for the approval of fire fighting scheme has been examined by the team of Fire Station Officers, Bahadurgarh Main, . The Fire fighting scheme is found as per the National Building Code of India Part IV guidelines. Therefore your proposed fire fighting scheme is hereby approved as per following detail from the fire safety point of view with the following conditions:-

<b>Tower Name</b>	<b>Floor Detail</b>	<b>Terrace Height of Last Livable Floor(In Meters)</b>	<b>Ground Coverage</b>
Block A	Ground only	8.80	2000.00
Block B	Ground only	5.00	3150.00

<b>Tower Name</b>	<b>Basement Level</b>	<b>Basement Area</b>	<b>Basement Remarks</b>
	NIL	NIL	NIL

- 1) The proposed fire fighting scheme is approved as submitted in the building plan subject to the approval of building plan by the competent authority.
- 2) The approval of fire scheme by this office doesn't absolve the firm from his responsibility from all consequences, in case of fire due to any deficiencies or anything left out in the scheme submitted by you.
- 3) Overhead & underground water tanks provided for firefighting shall be so constructed in such a way that the domestic water tank shall filled from overflow of the fire Water tanks.
- 4) As soon as the installations of fire fighting arrangements are completed, the same may be got inspected/ tested and clearance should be obtained from this office.
- 5) If the infringement of Byelaws remains un- noticed the Authority reserves the right to amend the Plans/Fire Fighting Scheme as and when any such infringement comes to notice after giving an opportunity of being heard and the Authority shall stand Indemnified against any claim on this account.
- 6) If you fail to comply with any of the above terms & conditions you will be liable to be punished as per Chapter-III Section 31 Sub-Section 1 & 2 of Fire Act 2009 i.e. imprisonment for a term which may extend to three month or fine which may extend to five thousand rupees or both.
- 7) The staircase shall be made with the specified material enabling it non-slippery.
- 8) If the gap between ceiling and false ceiling is more than 800 mm then upright sprinkler and detectors above false ceiling & pendent sprinkler below false ceiling shall be installed in the building

**Remarks:- Application Updated**



Deputy Director (Technical)-I,  
for Director General, Fire  
Service, Haryana  
Panchkula

*Dr. Deep Prakash*  
डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा संस्थान (सी.एन.ई.ए.)  
Global Centre for Non-Nuclear Energy (G.C.N.E.E.)  
प.ऊ.वि., भारत सरकार / G.A.S., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507



Digitally signed by Sumesh Kumar  
Dua  
Date: 2018.11.28 17:28:29 +05:30  
Reason: Digital Verification



From

Director General,  
Fire Service, Haryana,  
Panchkula.

To

M/s Global Center for Nuclear Energy Partnership,  
Village-Jasaur Kheri, Teh-Bahadurgarh,  
Distt. Jhajjar.

Memo No. DFS/Supdt/2017/751/ 82539

Dated: 2/4/17

**Subject: Approval of fire fighting scheme from the fire safety point of view of the Assembly Building (Central Building) at village-Jasaur Kheri, The-Bahadurgarh, Distt. Jhajjar of M/s Global Center for Nuclear Energy Partnership.**

Reference on the subject cited above.

Your case for the approval of fire fighting scheme has been examined as recommended by the Fire Station Officer, Bahadurgarh, Jhajjar. The Fire fighting scheme is found as per the N.B.C. 1983 Part IV revised 2005/ guidelines. Therefore, your proposed fire fighting scheme is hereby approved from the fire safety point of view with the following conditions:-

- 1) The proposed fire fighting scheme is approved as submitted in the building plan subject to the approval of building plan by the competent authority.
- 2) The approval of fire scheme by this office doesn't absolve the firm from his responsibility from all consequences, in case of fire due to any deficiencies or anything left out in the scheme submitted by you.
- 3) Overhead & underground water tanks provided for firefighting shall be so constructed in such a way that the domestic water tank shall filled from overflow of the fire Water tanks.
- 4) As soon as the installations of fire fighting arrangements are completed, the same may be got inspected/ tested and clearance should be obtained from this office.
- 5) If the infringement of Byelaws remains un-noticed the Authority reserves the right to amend the Plans/Fire Fighting Scheme as and when any such infringement comes to notice after giving an opportunity of being heard and the Authority shall stand Indemnified against any claim on this account.
- 6) If you fail to comply with any of the above terms & conditions you will be liable to be punished as per Chapter-III Section 31 Sub-Section 1 & 2 of Fire Act 2009 i.e. imprisonment for a term which may extend to three month or fine which may extend to five thousand rupees or both.
- 7) The staircase shall be made with the specified material enabling it non-slippery.
- 8) If the gap between ceiling and false ceiling is more than 800 mm then upright sprinkler and detectors above false ceiling & pendent sprinkler below false ceiling shall be installed in the building.

Deputy Director (Technical)-I,  
for Director General, Haryana Fire Service,  
Panchkula.

Endst. No- DFS/Supdt/2017/751/

Dated:

A copy is forwarded to the Fire Station Officer, Bahadurgarh, Jhajjar with reference to his Memo No. 390/FSB, dated 12.09.2016 for information and necessary action.

Deputy Director (Technical)-I,  
for Director General, Haryana Fire Service,  
Panchkula.

Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा सहयोग (G.C.N.E.P.)  
प.क.वि., भारत सरकार / D.G.A. Government of India  
बाहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) - 124507

Ref: GCNEP / ~~File~~/01

Date: 26<sup>th</sup> December 2013

To  
Project Director, GCNEP  
Reactor Control Division,  
Bhabha Atomic Research Centre  
Mumbai

Sub: **Construction of Institutional Campus and Residential Township for Global Centre for Nuclear Energy Partnership (GCNEP) at KheriJasaur and JasaurKheri village in the State of Haryana**  
- Electric Supply for GCNEP Campus & Township

Ref: 1. Your letter dated 26.12.13 and Check list received from State Environment Impact Assessment Authority (SEIAA).

Dear Sir,

This is to assure you that the necessary Electricity supply shall be provided for, both the sites at KheriJasaur and Jasaur Kheri villages, for setting up GCNEP project. *As per M/s. Instrukta*

*R*  
SDO HBVN,  
Bahadurghar, Haryana.  
S.D.O S/O S/DIVN,  
HBVN, Bahadurghar

*Dr. Prakash*  
डॉ. रवि प्रकाश, Deep Prakash  
प्रतिष्ठान के अध्यक्ष / Project Director  
वैश्विक कर्मिणा (ग्लोबल सेंटर फॉर न्यूक्लियर एनर्जी पार्टनरशिप (जी.सी.एन.ई.पी.))  
ग्लोबल सेंटर फॉर न्यूक्लियर एनर्जी पार्टनरशिप (जी.सी.एन.ई.पी.)  
प.उ.वि., भारत सरकार, ए.ए.टी., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurghar (Haryana)-124507





Government of India  
भारत सरकार

Phone: +912225595204

परमाणु ऊर्जा विभाग

Department of Atomic Energy  
वैश्विक नाभिकीय ऊर्जा साझेदारी केन्द्र

GLOBAL CENTRE FOR NUCLEAR ENERGY PARTNERSHIP

Annexure XIV



Y. S. Mayya, OS

Project Director, GCNEP

Date: 26<sup>th</sup> December 2013

Ref: GCNEP / 83

To  
The Chairman, SEIAA  
ParytanBhawan  
1<sup>st</sup> Floor, Sector-2, Panchkula  
Tel: 0712 2565232

Sub: *Construction of Institutional Campus and Residential Township for Global Centre for Nuclear Energy Partnership (GCNEP) at KheriJasaur and JasaurKheri village in the State of Haryana.*

- Submission of Form-1, Form-1A, Environmental Management Plan and Conceptual Plan for Environmental Clearance

Ref: 1. Department's proposal submitted on 30 October 2013.  
2. Check list received from State Environment Impact Assessment Authority (SEIAA) dated 06.11.2013 received on 09.12.13.

Dear Sir,

Department of Atomic Energy, Government of India decided to set up institutional campus and residential township for Global Centre for Nuclear Energy Partnership (GCNEP) project at KheriJasaur and JasaurKheri village near Bahadurgarh, in the State of Haryana. The details of the project were submitted to your office with reference to point no.1.

Further as per the prerequisite in check list above referred at point no.2, We Undertake the following:-

- That no construction has been started at the site along with latest attested photograph.
- That we will not encroach the revenue rasta passing through the project area shown in the zoning plan and layout plan.
- That we will keep the ROW required for HT wire passing through the project area as per Government instruction.
- That we will not use ground water for construction and will use treated water confirmation the ISI standards for building construction.
- That we will use ultra low sulphur diesel.
- That provision for Helipad shall be made in case of the building having height more than 6 meter. Provision of atleast one Hydraulic ladder for high rise building shall also be made.
- The infrastructure will not obstruct or divert the natural flow of water covered or open nallah, drainage of rain water as per natural flow of water.

Thanking you  
Yours faithfully

*Y. S. Mayya*

Project Director, GCNEP  
Reactor Control Division, Bhabha Atomic Research Centre  
Tel: 022 2559 5204  
E-mail: ysmayya@barc.gov.in

**Y. S. MAYYA**  
Project Director, GCNEP  
DAE, Govt. of India  
RCnD, BARC, Mumbai-85

वाई.एस. मय्या / Y. S. MAYYA  
प्रियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा साझेदारी केन्द्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (GCNEP)  
भारत सरकार / Government of India  
रेक्टर नियंत्रण प्रभाग / Reactor Control Division  
भारत सरकार / Bhabha Atomic Research Centre, Mumbai-400085

*Prakash*

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director

वैश्विक नाभिकीय ऊर्जा साझेदारी केन्द्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (GCNEP)  
प.क.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507

Global Centre for Nuclear Energy Partnership  
Reactor Control Division  
Trombay, Mumbai - 400085

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**ANNEXURE XV**



**Site Barricade with High wall**

*Dr. Prakash*

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
ग्लोबल नैतिकता, शांति, विकास और प्रौद्योगिकी केंद्र (जी.सी.एन.ई.पी.)  
Global Centre for Ethics, Peace, Development (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / P.U.V., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) - 124507





**Water Sprinkling at Site.**

*Dr. Deep Prakash*

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
देशिक नमि कोटा (डी.सी. को. नि. ए. एन.पी.एन.ई.पी.)  
Global Company of Water Treatment (G.C.W.T.P.)  
ए.क.वि. शहर कोटा (ए.क.वि. कोटा) Government of India  
बारादुर्ग (हरियाणा) / Baradurg (Haryana) -124507

# Annexure-XVII



**Dr. Deep Prakash**  
 डॉ. दीप प्रकाश / Dr. Deep Prakash  
 परिवर्तन निर्देशक / Project Director  
 (विश्व परमाणु सहयोग केंद्र, भारत सरकार, बहादुरगढ़, हरियाणा)  
 Global Centre for Nuclear Energy Partnership (GCNEP)  
 बहादुरगढ़, हरियाणा / Bahadurgarh, Haryana, India  
 संपर्क नंबर (दूरभाष) / Contact Number: 0172-265011

**LEGEND**

- Water Body
- Green Space
- Road
- Building
- Other

**GLOBAL CENTRE FOR NUCLEAR ENERGY PARTNERSHIP BAHADURGARH HARYANA GCNEP**

PROJECT NO. 01/2014  
 DRAWING NO. 01/2014-01  
 DATE: 15/05/2014

**CAMPUS**

ARCHITECTURAL DRAWINGS  
 CAMPUS MASTER PLAN

CONSULTING ENGINEERING SERVICES (INDIA) PVT. LTD.





## HARYANA STATE POLLUTION CONTROL BOARD

SCF No. 42 & 43, Shopping Centre, Sector-6, Huda,  
Bahadurgarh Ph. 01276-243077 (O) Email:-

hspcbrobdh@gmail.com

E-mail: hspcb@hry.nic.in



No. HSPCB/Consent/ : 329962324JHACTO53643279

Dated:04/03/2024

To.

M/s :Global Centre for Nuclear Energy Partnership (Institute and Township)  
Village Jasuar Kheri and Kheri Jasaur, Tel Bahadurgarh

Subject: Grant of consent to operate to M/s Global Centre for Nuclear Energy Partnership (Institute and Township).

Please refer to your application no. 53643279 received on dated 2024-01-23 in regional office Bahadurgarh. With reference to your above application for consent to operate, M/s Global Centre for Nuclear Energy Partnership (Institute and Township) is here by granted consent as per following specification/Terms and conditions.

<b>Consent Under</b>	BOTH
<b>Period of consent</b>	04/03/2024 - 30/09/2028
<b>Industry Type</b>	Building and Construction projects having waste water generation more than 100 KLD in respective of their built-up area
<b>Category</b>	RED
<b>Investment(In Lakh)</b>	81100.0
<b>Total Land Area(Sq. meter)</b>	946600.3
<b>Total Builtup Area(Sq. meter)</b>	44300.0
<b>Quantity of effluent</b>	
1. Trade	0.0 KL/Day
2. Domestic	150.0 KL/Day
<b>Number of outlets</b>	1.0
<b>Mode of discharge</b>	
1. Domestic	STP
2. Trade	NA
<b>Domestic Effluent Parameters</b>	
1. BOD	10 mg/l
2. COD	50 mg/l
3. TSS	20 mg/l
4. OIL & GREASE	10 mg/l
5. ph	5.5-9.0
6. TOTAL NITROGEN	10 mg/l
7. TOTAL PHOSPHORUS	1 mg/l

*Deep Prakash*

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय साझेदारी केंद्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.ऊ.वि., शाहज गडवाड़ / D.A.E., Government of India,  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507

8 . F A E C A L C O L I F O R M	LESS THAN 100
<b>Trade Effluent Parameters</b>	
1. NA	
Number of stacks	5
<b>Height of stack</b>	
1 . S T A C K ATTACHED TO DG SET OF 750 KVA	6.0 METERS
2 . S T A C K ATTACHED TO DG SET OF 750 KVA	6.0 METERS
3 . S T A C K ATTACHED TO DG SET OF 250 KVA	6.0 METERS
4 . S T A C K ATTACHED TO DG SET OF 250 KVA	6.0 METERS
5 . S T A C K ATTACHED TO DG SET OF 320 KVA	6.0 METERS
<b>Emission parameters</b>	
1. NA	
<b>Product Details</b>	
1. Govt. Of India owned Nuclear Energy Educational Institute for research & development	Cases/day
<b>Capacity of boiler</b>	
1. NA	Ton/hr
<b>Type of Furnace</b>	
1. NA	
<b>Type of Fuel</b>	
1. Diesel	2.976 KL/day
2. Electricity	Megawatt/day
<b>Raw Material Details</b>	
Govt. Of India owned Nuclear Energy Educational Institute for research and development	Cases/Day

*Regional Officer, Bahadurgarh  
Haryana State Pollution Control Board.*

### Terms and conditions

1. The applicants shall maintain good house keeping both within factory and in the premises. All hose pipelines valves, storage tanks etc. shall be leak proof. In plant allowable pollutants levels, if specified by State Board should be met strictly

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा प्रयोगशाला (गो. वि. भारत) (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार (Ministry of Atomic Energy, Government of India)  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) - 128501



2. The applicant/company shall comply with and carry out directive/orders issued by the Board in this consent order at all subsequent times without negligence of his /its part. The applicant/company shall be liable for such legal action against him as per provision of the law/act in case of violation of any order/directives. Issued at any time and or non compliance of the terms and conditions of his consent order.
3. The applicant shall make an application for grant of consent at least 90 days before the date of expiry of this consent.
4. Necessary fee as prescribed for obtaining renewal consent shall be paid by the applicant alongwith the consent application.
5. If due to any technological improvement or otherwise this Board is of opinion that all or any of the conditions referred to above required variation (including the change of any control equipment either in whole or in part) this Board shall after giving the applicant an opportunity of being heard vary all or such condition and there upon the applicant shall be bound to comply with the conditions so varied.
6. The industry shall provide adequate arrangement for fighting the accidental leakages, discharge of any pollutants gas/liquids from the vessels, mechanical equipment etc. which are likely to cause environment pollution.
7. The industry shall comply noise pollution (Regulation and control) Rules, 2000.
8. The industry shall comply all the direction/Rules/Instructions as may be issued by the MOEF/CPCB/HSPCB from time to time.
9. The industry shall ensure that various characteristics of the effluents remain within the tolerance limits as specified in EPA Standard and as amended from time to time and at no time the concentration of any characteristics should exceed these limits for discharge.
10. The industry would immediately submit the revised application to the Board in the event of any change in the raw material in process, mode of treatment/discharge of effluent. In case of change of process at any stage during the consent period, the industry shall submit fresh consent application alongwith the consent to operate fee, if found due, which may be on any account and that shall be paid by the industry and the industry would immediately submit the consent application to the Board in the event of any change during the year in the raw material, quantity, quality of the effluent, mode of discharge, treatment facilities etc.
11. The officer/official of the Board shall reserve the right to access for the inspection of the industry in connection with the various process and the treatment facilities. The consent to operate is subject to review by the Board at any time.
12. Permissible limits for any pollutants mentioned in the consent to operate order should not exceed the concentration permitted in the effluent by the Board.
13. The industry shall pay the balance fee, in case it is found due from the industry at any time later on.
14. If the industry fails to adhere to any of the conditions of this consent to operate order, the consent to operate so granted shall automatically lapse.
15. If the industry is closed temporarily at its own, they shall inform the Board and obtain permission before restart of the unit.
16. The industry shall comply all the Directions/ Rules/Instructions issued from time to time by the Board.

**Specific Conditions :**

*D. Prakash*

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परिचालक निदेशक / Project Director  
वैश्विक नाभिकीय ऊर्जा प्रतिक्रिया (ग्लोबल एनर्जी सी)  
Global Centre for Nuclear Energy (G.C.N.E.R.)  
प.ऊ.वि., भारत सरकार / G.A.E. Government of India  
बछाड़गढ़ (हरियाणा) 141 001

1. That the unit shall apply for renewal of consent to operate 90 days earlier, before the expiry of previous consent to operate obtained from the Board. 2. That unit will operate its pollution control devices properly and effectively to keep the parameters within limit. 3. That the unit will not expand its production activity from the existing and will not increase any pollution load under Water Act, 1974, Air Act, 1981 without prior approval of the Board. 4. That if the sampling report under Water Act, 1974 and Air Act, 1981 will be found exceeding in parameters at any stage and found increase in pollution load at any stage consent to operate granted will be revoked. 5. That unit will submit the sampling report under Water and Air Act, as applicable within 90 days. 6. The unit will obtain Authorization under HOWM Rules, 2016 for scientific disposal of the Hazardous waste generated. 7. The unit will do agreement with GEPIL/RECYCLER for safe collection, transportation & disposal of Hazardous Waste generated i.e. used oil, used containers of various chemicals & solvents, waste cloth & used oil from Gen set etc. 8. The unit will comply with Direction No. 76 of CAQM for DG sets for installation of RECD kit and use of Dual fuel in operation of DG sets. 9. Unit will obtain NOC/permission from CGWA/HWRA for groundwater abstraction. 10. The CTO granted is prejudice to be action taken for any violation, if found at later stage.

NAVEEN  
GULIA

Digitally signed by  
NAVEEN GULIA  
Date: 2024.03.04  
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Regional Officer, Bahadurgarh

Haryana State Pollution Control Board.

HARYANA STATE



Dr. Deep Prakash

डॉ. दीप प्रकाश / Dr. Deep Prakash  
परियोजना निर्देशक / Project Director  
वैश्विक नाभिकीय ऊर्जा सहयोगी केंद्र (जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.ऊ.वि., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana) -124507



Annexure-XVIII

**LEGEND**

- EXISTING INFRASTRUCTURE
- PROPOSED INFRASTRUCTURE
- WATER BODIES
- ROAD
- PARKING
- UTILITY SERVICES
- FENCE/BARRIER
- EXISTING BOUNDARY
- EXISTING/NEW
- PROPOSED BOUNDARY
- PROPOSED ROAD



As per the contract with reference No. G.N.E.P. 2013/2014, I hereby certify that the work on this drawing was carried out by the firm mentioned in the contract, and the work was done by the staff of the firm mentioned in the contract, and the work was done by the staff of the firm mentioned in the contract.

**GLOBAL CENTRE FOR NUCLEAR ENERGY PARTNERSHIP, BAHADURGARH, HARYANA G.C.N.E.P.**

PROJECT: DESIGN AND CONSTRUCTION OF INFRASTRUCTURE AND SERVICES FOR THE GLOBAL CENTRE FOR NUCLEAR ENERGY PARTNERSHIP, BAHADURGARH, HARYANA.

SCALE: AS SHOWN

DATE: 10/10/2014

PROJECT NO: 101014-01

**GLOBAL CENTRE FOR NUCLEAR ENERGY PARTNERSHIP, BAHADURGARH, HARYANA G.C.N.E.P.**

<b>C A M P U S</b>	
PROJECTIONS	DATE
PLANNING	10/10/14
ARCHITECTURE	10/10/14
MECHANICAL	10/10/14
ELECTRICAL	10/10/14
CIVIL	10/10/14
LANDSCAPE	10/10/14
TRAFFIC	10/10/14
UTILITIES	10/10/14

**GLOBAL CENTRE FOR NUCLEAR ENERGY PARTNERSHIP, BAHADURGARH, HARYANA G.C.N.E.P.**

**CONSULTING ENGINEERING SERVICES (INDIA) PVT. LTD.**

101014-01

*Dr. Prakash*  
 डॉ. दीप प्रकाश / Dr. Deep Prakash  
 परियोजना निदेशक / Project Director  
 विश्व नाभिकीय साझेदारी केन्द्र (ग्लोबल सेंट्रल फॉर न्यूक्लियर एनर्जी पार्टनरशिप) (G.C.N.E.P.)  
 बाहादुरगढ़, हरियाणा / Bahadurgarh (Haryana) - 151001



**GOVERNMENT OF INDIA**  
**DEPARTMENT OF ATOMIC ENERGY**  
**GLOBAL CENTRE FOR NUCLEAR ENERGY PARTNERSHIP**  
Jasaur-Kheri, Bahadurgarh, District Jhajjar, Haryana-124505



Advt. No.: GCNEP/Advt/18/04-43 Website: www.gcnep.gov.in


**PUBLIC NOTICE**

Global Centre for Nuclear Energy Partnership (GCNEP), Government of India, Department of Atomic Energy (DAE), has obtained Environmental Clearance for expansion of Institutional campus and Residential Township project located at Village Kheri Jasaur and Jasaur Kheri, Bahadurgarh, District Jhajjar, Haryana, from Haryana State Environment Impact Assessment Authority (SEIAA), Panchkula (Haryana) vide their reference file No. SEIAA/HR/2018/231 dated: 04.04.2018.


The clearance covers construction (Existing and expansion) on a plot area of 946600.38 sqm (94.66 Hectare = 522626.68 sqm for Institutional campus+ 423973.7 sqm for Residential Township). The total built up area shall be 92979 sqm (47154 sqm institutional campus + 45825 sqm residential township). The project shall comprise of Institutional Campus and residential township having Auditorium, conference room, Canteen, E-class, Lecture room, Labs, recreation centre, dinning, Guest House & Residential housing. The project shall be constructed on a land area of 522626.68 sqm in village Kheri Jasaur and a land area of 423973.7 sqm in village Jasaur Kheri, Bahadurgarh, District Jhajjar, Haryana. In this respect, copies of Clearance letter are available with the Haryana State Pollution Control Board & Haryana State Environment Impact Assessment Authority and may also be seen at their Website at <http://www.seiaahry.in> and GCNEP Website <http://www.gcnep.gov.in>. (This is published as a statutory requirement of above cited SEIAA clearance).

-Project Director, GCNEP.

8x8 cm



**भारत सरकार**  
**परमाणु ऊर्जा विभाग**  
**वैश्विक नाभिकीय ऊर्जा साझेदारी केंद्र**  
जासौर-खेड़ी, बहादुरगढ़, जिला झज्जर, हरियाणा - 124505



विज्ञापन संख्या : जी.सी.एन.ई.पी./विज्ञापन/18/04-43 वेबसाइट: www.gcnep.gov.in

**सार्वजनिक सूचना**

वैश्विक नाभिकीय ऊर्जा साझेदारी केंद्र (जी.सी.एन.ई.पी. - ग्लोबल सेंटर फोर न्यूक्लीयर एनर्जी पार्टनरशिप), भारत सरकार, परमाणु ऊर्जा विभाग (डी.ए.ई.) को गांव जासौर खेड़ी एवं गांव खेड़ी जासौर, तहसील बहादुरगढ़, जिला झज्जर (हरियाणा) में संस्थागत एवं आवासीय परिसर के विस्तार निर्माण हेतु हरियाणा राज्य पर्यावरण प्रभाव आकलन प्राधिकरण (SEIAA पंचकूला ने, उनके संप्रषण क्रमांक, SEIAA/HR/2018/231 dated: तिथि: 04.04.2018, के द्वारा, स्वीकृति प्रदान की है।

यह स्वीकृति 946600.38 वर्ग मीटर (94.66 हेक्टर = 522626.68 वर्ग मीटर संस्थागत + 423973.7 वर्ग मीटर आवासीय) में निर्माण हेतु दी गयी है। कुल निर्मित क्षेत्र 92979 वर्ग मीटर (47154 वर्ग मीटर संस्थागत + 45825 वर्ग मीटर आवासीय) होगा। परियोजना के अंतर्गत इंस्टीट्यूशनल कैंपस और आवासीय टाउनशिप शामिल है, जिसमें ऑडिटोरियम, सम्मेलन कक्ष, कैटीन, ईक्लास, व्याख्यान कक्ष, लैब्स, मनोरंजन केंद्र, भोजन कक्ष, गेस्ट हाउस और आवासीय आवास शामिल है। परियोजना के अंतर्गत गांव खेड़ी जासौर में 522626.68 वर्ग मीटर एवं गांव जासौर खेड़ी में 423973.7 वर्ग मीटर निर्माण होगा।

इस संदर्भ में स्वीकृति पत्र हरियाणा राज्य प्रदूषण नियंत्रण बोर्ड और हरियाणा राज्य पर्यावरण प्रभाव आकलन प्राधिकरण (SEIAA) के पास उपलब्ध है। यह जानकारी उनकी वेबसाइट at <http://www.seiaahry.in> तथा जी.सी.एन.ई.पी. की वेबसाइट <http://www.gcnep.gov.in> पर भी उपलब्ध है। यह सूचना इस स्वीकृति से जुड़ी वैधानिक आवश्यकता के तहत दी जा रही है।

-परियोजना निदेशक, जी. सी. एन. ई. पी.

Hindi 8x8 cm

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*Dr. Deep Prakash*

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(वैश्विक नाभिकीय ऊर्जा साझेदारी केंद्र, जी.सी.एन.ई.पी.)  
Global Centre for Nuclear Energy Partnership (G.C.N.E.P.)  
प.ए.ई., भारत सरकार / D.A.E., Government of India  
बहादुरगढ़ (हरियाणा) / Bahadurgarh (Haryana)-124505