Ref. No.: SEIAA/EC/Com./19-20/I  
Date : 07.01.2020

To,
The Additional Principal Chief Conservator of Forests
Ministry of Environment, Forests & Climate Change
Govt. of India
Regional Office (ECZ)
Bungalow No. A-2, Shyamali Colony
RANCHI – 834 002

Sub: **6-MONTHLY COMPLIANCE OF ENVIRONMENTAL CLEARANCE**

Dear Sir,

With reference to amendment in Environmental Clearance vide F. No. SIA/8(a)/538/18 Dt: 08.03.2019, we are enclosing herewith Compliance Report (Enclosure-1) of Specific & General Conditions (alongwith Env. Monitoring Reports) as mentioned in above referred Environmental Clearance for the period Apr. – Sep.’2019

This is for your kind reference and information.

With regards

Sincerely yours

Ujjwal Kumar
Manager-Admn.
**COMPLIANCE REPORT OF ENVIRONMENT CLEARANCE**  
**(FOR THE PERIOD APR.’2019 TO SEP.’2019)**  
(Granted by State Environment Impact Assessment Authority, Bihar vide F. No. SIA/8(a)/538/18 Dt: 08.03.2019 )  
FOR  
**PROPOSED JAYPRABHA MEDANTA SUPER SPECIALTY HOSPITAL, PATNA**  
**(A PROJECT BY GLOBAL HEALTH PATLIPUTRA PVT. LTD.)**

<table>
<thead>
<tr>
<th>CONDITION OF ENVIRONMENT CLEARANCE ISSUED BY SEIAA, BIHAR</th>
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<tbody>
<tr>
<td><strong>I. STATUTORY COMPLIANCE</strong></td>
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</tr>
<tr>
<td>1. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including Town Planning Authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.</td>
<td>We have obtained all necessary clearance/ permission from all relevant agencies including Town Planning Authority before commencement of work viz, Heath Deptt. Govt. of Bihar, Patna Municipal Corporation, State Fire Office, Airport Authority of India. All the construction work is being done in accordance with the local building byelaws. (Copy attached as Annexure – I)</td>
</tr>
<tr>
<td>2. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc. as per National Building Code including protection measures from lightening etc.</td>
<td>We have obtained approval for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc. as per National Building Code including protection measures from lightening etc. from Certified Competent Person by Chief Inspector of Factories, Bihar as per Bihar Building Byelaws 59. (Copy attached as Annexure – II)</td>
</tr>
<tr>
<td>3. All directions of the Airport Authority, Director of Explosives and Fire Department etc. shall be complied with.</td>
<td>We will comply all directions of the Airport Authority and Fire Department etc.</td>
</tr>
<tr>
<td>4. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention &amp; Control of Pollution) Act, 1981 and the Water (Prevention &amp; Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/Committee.</td>
<td>Bihar State Pollution Control Board has granted Consent to Establish vide Ref. No. PT(NOC)-1703/16-B-1556 Dt: 02.11.2018. (Copy attached herewith as Annexure – III)</td>
</tr>
<tr>
<td>5. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.</td>
<td>We have obtained NOC from competent authority, Patna Municipal Corporation for 3 nos. borewells vide Letter No. 7505 Dt: 18.07.2018. (Copy attached herewith as Annexure – IV)</td>
</tr>
<tr>
<td>6. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.</td>
<td>South Bihar Power Distribution Co. Ltd. (SBPDCL) is supplying power to our project.</td>
</tr>
<tr>
<td>7. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.</td>
<td>We will obtain all other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, as applicable for our project.</td>
</tr>
</tbody>
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*Page 1 of 11*
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<tr>
<td>shall be followed.</td>
<td>2016.</td>
</tr>
<tr>
<td>9. The project proponent shall follow the ECBC / ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.</td>
<td>For construction of proposed buildings, we will follow the ECBC / ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power.</td>
</tr>
<tr>
<td>10. The facilities provided for collection, segregation, handling, on site storage &amp; processing of solid waste such as chute system for multi-storey buildings, wet &amp; dry bins, collection centre &amp; mechanical composter etc. shall be properly maintained. The collected solid waste shall be segregated at site. The recyclable solid waste shall be sold out to the authorized vendors for which a written tie-up must be done with the authorized recyclers.</td>
<td>The facilities provided for collection, segregation, handling, on site storage &amp; processing of solid waste such as chute system for multi-storey buildings, wet &amp; dry bins, collection centre &amp; mechanical composter etc. will be provided. The collected solid waste will be segregated at site. The recyclable solid waste will be sold out to the authorized vendors for which a written tie-up must be done with the authorized recyclers.</td>
</tr>
<tr>
<td>11. Bio-Medical waste to be generated in the hospital shall be handled and managed as per the provisions of Bio-Medical waste (Management &amp; Handling) Rules, 2016. Radioactive waste management program shall be adopted and implemented at the site in order to mitigate the effects coming out due to use of atomic radiation in different equipment's.</td>
<td>All the generated Bio-Medical waste in hospital will be handled and managed as per the provisions of Bio-Medical waste (Management &amp; Handling) Rules, 2016. Radioactive waste management program shall be adopted and implemented at the site in order to mitigate the effects coming out due to use of atomic radiation in different equipment's.</td>
</tr>
<tr>
<td>12. Hazardous waste/E-waste should be disposed off as per Rules applicable and with the necessary approval of the Bihar State Pollution Control Board.</td>
<td>We will obtain approval from Bihar State Pollution Control Board (BSPCB) for handling and management of Hazardous waste/E-waste.</td>
</tr>
<tr>
<td>13. Solar power plant or other solar energy related equipment's shall be operated and maintained properly.</td>
<td>Solar power system will be operated and maintained properly.</td>
</tr>
<tr>
<td>14. Provisions shall be made for the integration of solar water heating system.</td>
<td>We will comply with the norms.</td>
</tr>
<tr>
<td>15. EC conditions must be displayed at prominent place which can be easily visible to public mentioning the address and contact number of authority to whom violation of EC conditions can be reported.</td>
<td>EC conditions will be displayed at prominent place inside the project premises mentioning the address and contact number of authority to whom violation of EC conditions can be reported.</td>
</tr>
<tr>
<td>16. Fencing of the project boundary by erecting 10 meter facade before start of construction activities.</td>
<td>Civil construction work has been completed. However, we have provided fencing of the project boundary by erecting 10 meter façade during the construction period.</td>
</tr>
<tr>
<td>17. Free Parking facility for patient and visitors shall be provided.</td>
<td>Free Parking facility for patient and visitors will be provided as per applicability.</td>
</tr>
</tbody>
</table>

**II. Air quality monitoring and preservation**

| 1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with. | Regular water spraying is being done for controlling dust emission. |
| 2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site. | We are preparing management plan and it will be implemented to contain the current exceedance in ambient air quality at the site. |
| 3. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM_{10} and PM_{2.5}) covering upwind and downwind directions during the construction period. | Ambient Air Quality monitoring is being done through MoEFCC Recognized Environmental Laboratory for common/criterion parameters relevant to the main pollutants released (e.g. PM_{10} and PM_{2.5}) covering upwind and downwind directions during the construction period. (Monitoring report attached as Annexure – V). |
| 4. Diesel power generating sets proposed as source of power backup should be of enclosed- type and | We have installed DG Sets of enclosed-type equipped with acoustic enclosures and ambient noise level conforms |

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**Page 2 of 11**
<table>
<thead>
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<tr>
<td>conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.</td>
<td>to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. (Noise monitoring report attached as Annexure – V).</td>
</tr>
<tr>
<td>5. Construction site shall be adequately barricaded before the construction begins. Dust, smoke &amp; other air pollution prevention measures shall be provided for the building as well as for the site. These measures shall include screens for the building under construction, continuous dust / wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.</td>
<td>Entire construction site has been adequately barricaded before the start of construction activities. Dust, smoke &amp; other air pollution prevention measures are being provided for the building as well as for the site. These measures include screens for the building under construction, continuous dust / wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers are provided for vehicles bringing in sand, cement, murram and other construction materials at the site as well as taking out debris from the site.</td>
</tr>
<tr>
<td>6. Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.</td>
<td>Sand, murram, loose soil, cement, stored ate site are covered adequately to prevent dust pollution.</td>
</tr>
<tr>
<td>7. Wet jet shall be provided for grinding and stone cutting.</td>
<td>If required, wet jet will be provided for grinding and cutting activities.</td>
</tr>
<tr>
<td>8. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.</td>
<td>To suppress dust from unpaved surfaces and loose soil regular water sprinkling is being done.</td>
</tr>
<tr>
<td>9. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.</td>
<td>All construction debris are stored at the site and will be used for leveling of land and other related activities within project premises.</td>
</tr>
<tr>
<td>10. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to air and noise emission standards of CPCB / MoEF&amp;CC, Gol.</td>
<td>We are using low sulphur diesel generator sets with acoustic enclosures which conforms to air and noise emission standards of CPCB / MoEF&amp;CC, Gol. (DG Set Monitoring Report attached as Annexure V).</td>
</tr>
<tr>
<td>11. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.</td>
<td>The gaseous emissions from DG set will be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure have been provided to the DG sets to mitigate the noise pollution. Low sulphur diesel will be used. The location of the DG set and exhaust pipe height will be as per the provisions of the Central Pollution Control Board (CPCB) norms.</td>
</tr>
<tr>
<td>12. For indoor air quality the ventilation provisions as per National Building Code of India shall be followed.</td>
<td>For improving and maintaining indoor air quality the ventilation provisions have been made as per National Building Code of India.</td>
</tr>
<tr>
<td>13. Real time Ambient Air Quality shall be measured on continuous basis and the data shall be displayed in public domain as per National Ambient Air Quality parameters and on the portal of hospital. The measured data shall be linked to the server of the State Pollution Control Board.</td>
<td>We will install system for real time Ambient Air Quality measurement on continuous basis and the data will be displayed in public domain as per National Ambient Air Quality parameters and on the portal of hospital. The measured data will be linked to the server of the Bihar State Pollution Control Board.</td>
</tr>
</tbody>
</table>

### III. Water quality monitoring and preservation:

1. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage

We will maintain the natural drainage system for ensuring unrestricted flow of water. No construction has been planned to obstruct the natural drainage through.
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<td>through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.</td>
<td>the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.</td>
</tr>
<tr>
<td>2. Buildings shall be designed to follow the natural topography as much as possible and minimum cutting and filling should be done.</td>
<td>Buildings are designed to follow the natural topography to maximum extent possible and minimum cutting and filling is envisaged.</td>
</tr>
<tr>
<td>3. Total fresh water use shall not exceed the proposed requirement as provided in the project details.</td>
<td>Total fresh water use will not exceed the proposed requirement as provided in the project details.</td>
</tr>
<tr>
<td>4. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the, SEIAA/ Regional Office, MoEF&amp;CC along with six monthly Monitoring reports.</td>
<td>The quantity of fresh water usage, water recycling and rainwater harvesting will be measured through flow meters to monitor the projected water balance. The record will be submitted to the, SEIAA/ Regional Office, MoEF&amp;CC along with six monthly Monitoring reports.</td>
</tr>
<tr>
<td>5. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.</td>
<td>Certificate will be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This will be specified to ensure that there is no impact on other users.</td>
</tr>
<tr>
<td>6. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.</td>
<td>At least 20% of the open spaces as required by the local building bye-laws will be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. are considered as pervious surface.</td>
</tr>
<tr>
<td>7. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.</td>
<td>We have made provisions for installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc.</td>
</tr>
<tr>
<td>8. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.</td>
<td>Water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc. will be provided for water conservation.</td>
</tr>
<tr>
<td>9. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.</td>
<td>Separation of grey and black water will be done by the use of dual plumbing system.</td>
</tr>
<tr>
<td>10. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.</td>
<td>To reduce water demand during construction we are using pre-mixed concrete, curing agents and other best practices.</td>
</tr>
<tr>
<td>11. The local bye-law provisions on rain water harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.</td>
<td>We will comply with the norms.</td>
</tr>
<tr>
<td>12. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge</td>
<td>We will comply with the norms.</td>
</tr>
<tr>
<td>CONDITION OF ENVIRONMENT CLEARANCE ISSUED BY SEIAA, BIHAR</td>
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<tr>
<td>bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.</td>
<td>All recharge will be limited to shallow aquifer as per hydrological requirements.</td>
</tr>
<tr>
<td>13. All recharge should be limited to shallow aquifer.</td>
<td></td>
</tr>
<tr>
<td>14. No ground water shall be used during construction phase of the project.</td>
<td>We are using ground water from old existing borewell at site for construction activity.</td>
</tr>
<tr>
<td>15. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering</td>
<td>Dewatering is not required for our project.</td>
</tr>
<tr>
<td>16. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&amp;CC along with six monthly Monitoring reports.</td>
<td>The quantity of fresh water usage, water recycling and rainwater harvesting will be measured through flow meters to monitor the projected water balance. The record will be submitted to the SEIAA/ Regional Office, MoEF&amp;CC along with six monthly Monitoring reports.</td>
</tr>
<tr>
<td>17. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled / reused for flushing AC make up water and gardening. As proposed, no treated water shall be disposed into municipal drain.</td>
<td>We are installing STP based on MBBR Process followed by PSF and ACF for tertiary treatment of Sewage. The treated effluent from STP will be recycled / reused for flushing, AC make up water and gardening. As proposed, no treated water will be disposed into municipal drain to maximum extent possible.</td>
</tr>
<tr>
<td>18. No sewage or untreated effluent water would be discharged through storm water drains.</td>
<td>No sewage or untreated effluent water will be discharged through storm water drains.</td>
</tr>
<tr>
<td>19. Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted</td>
<td>Onsite sewage treatment facility for treatment of 100% waste water will be installed. The installation of the Sewage Treatment Plant (STP) will be certified by an independent expert and a report in this regard will be submitted to the Ministry before the project is commissioned for operation. Treated waste water will be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water will be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems will be promoted as per applicability in the project.</td>
</tr>
<tr>
<td>20. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.</td>
<td>Periodical monitoring of water quality of treated sewage will be done through MoEFCC Recognised Environmental Laboratory. All required measures will be adopted to mitigate the odour problem from STP.</td>
</tr>
<tr>
<td>22. Separate drainage system shall be developed for storm water so that end point discharge to nearest nallah /river is ensured to avoid water logging without any increase in the pollution load in receiving system.</td>
<td>Separate drainage system will be developed for storm water so that end point discharge to nearest nallah /river is ensured to avoid water logging without any increase in the pollution load in receiving system.</td>
</tr>
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### Condition of Environment Clearance Issued by SEIAA, Bihar

#### Compliance of Conditions

<table>
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<tbody>
<tr>
<td>1. Ambient noise levels shall conform to residential area / commercial area / industrial area / silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.</td>
<td>Our project is an hospital project. We are making all arrangements to maintain ambient noise levels within stipulated standards for silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality is being closely monitored during construction phase. Adequate measures have been made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.</td>
</tr>
<tr>
<td>2. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.</td>
<td>Noise level survey is being carried as per the prescribed guidelines and monitoring report is attached herewith as Annexure – V.</td>
</tr>
<tr>
<td>3. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.</td>
<td>Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel will be implemented as mitigation measures for noise impact due to ground sources.</td>
</tr>
<tr>
<td>4. Real time Ambient Noise level shall be measured on continuous basis and the data shall be displayed in public domain and on the portal of hospital. The measured data shall be linked to the server of the State Pollution Control Board.</td>
<td>Real time Ambient Noise level will be measured on continuous basis and the data will be displayed in public domain and on the portal of hospital. The measured data will be linked to the server of the Bihar State Pollution Control Board.</td>
</tr>
<tr>
<td>5. Energy Conservation measures</td>
<td></td>
</tr>
<tr>
<td>1. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.</td>
<td>We have considered the recommendation made in ECBC guidelines for our hospital building project.</td>
</tr>
<tr>
<td>2. Outdoor and common area lighting shall be LED</td>
<td>LED lights will be used for outdoor and common lighting purposes.</td>
</tr>
<tr>
<td>3. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.</td>
<td>We have adopted concept of passive solar design to minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. in the building design. Wall, window, and roof u-values are be as per ECBC specifications.</td>
</tr>
<tr>
<td>4. Energy conservation measures like installation of CFLs/LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.</td>
<td>Energy conservation measures like installation of CFLs/LED for the lighting the area outside the building are integral part of the project design and will be in place before project commissioning.</td>
</tr>
<tr>
<td>5. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/local building bye-laws requirement, whichever is higher.</td>
<td>Solar Energy will be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/local building bye-laws requirement, whichever is higher.</td>
</tr>
<tr>
<td>6. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher.</td>
<td>Solar power shall be used for lighting (as applicable) in the project to reduce the power load on grid. Separate electric meter will be installed for solar power. Solar water heating will be provided to meet 20% of the hot water demand of the hospital building or as per the requirement of the local building bye-laws, whichever is higher.</td>
</tr>
</tbody>
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### CONDITION OF ENVIRONMENT CLEARANCE ISSUED BY SEIAA, BIHAR

Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

### VI. Waste Management

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<tbody>
<tr>
<td>1. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.</td>
<td>We will procure certificate from the Patna Municipal Corporation handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project.</td>
</tr>
<tr>
<td>2. Proper composting / vermi-composting of municipal and biodegradable solid wastes shall be carried out. All municipal solid wastes shall be segregated, collected, transported, treated and disposed as per provisions of the Municipal Solid Wastes (Management and Handling) Rules, 2000 (As amended).</td>
<td>Proper composting / vermi-composting of municipal and biodegradable solid wastes will be carried out within premises through Oraginc Waste Convertor or composting pits. All municipal solid wastes will be segregated, collected, transported, treated and disposed as per provisions of the Municipal Solid Wastes (Management and Handling) Rules, 2000 (As amended).</td>
</tr>
<tr>
<td>3. All the top soil excavated during construction activities shall be stored for use in horticulture/landscape development within the project site.</td>
<td>All the top soil excavated during construction activities will be stored for use in horticulture/landscape development within the project site.</td>
</tr>
<tr>
<td>4. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and shall be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.</td>
<td>We will comply with the norms.</td>
</tr>
<tr>
<td>5. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.</td>
<td>We will provide separate wet and dry bins in each unit and at the ground level for facilitating segregation of waste. Solid waste will be segregated into wet garbage and inert materials.</td>
</tr>
<tr>
<td>6. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg/person/day must be installed.</td>
<td>Organic Waste Converter / vermiculture pit within the premises will be provided with a minimum capacity of 0.3 kg/person/day must be installed.</td>
</tr>
<tr>
<td>7. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.</td>
<td>All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up will be done with the authorized recyclers as per availability in the region.</td>
</tr>
<tr>
<td>8. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board</td>
<td>Hazardous waste generated during construction phase (Waste lube oil from DG Sets), will be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.</td>
</tr>
<tr>
<td>9. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials</td>
<td>Eco friendly building materials i.e. Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials will be used for at least 20% of building materials.</td>
</tr>
<tr>
<td>10. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016, Ready mixed concrete must be used in building construction.</td>
<td>Fly ash is being used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016, Ready mixed concrete are used in building construction.</td>
</tr>
<tr>
<td>11. Any wastes from construction and demolition activities will be managed so</td>
<td>Wastes from construction activities will be managed so</td>
</tr>
<tr>
<td>CONDITION OF ENVIRONMENT CLEARANCE ISSUED BY SEIAA, BIHAR</td>
<td>COMPLIANCE OF CONDITIONS</td>
</tr>
<tr>
<td>-----------------------------------------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.</td>
<td>as to strictly conform to the Construction and Demolition Rules, 2016.</td>
</tr>
<tr>
<td>12. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.</td>
<td>Used CFLs and TFLs will be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.</td>
</tr>
</tbody>
</table>

**VII. Green Cover**

1. No tree can be felled unless exigencies demand. Wherever absolutely necessary, tree felling shall be done with prior permission from the concerned regulatory authority. Plantations to be ensured in the ratio of species cut to species planted.

   For construction of proposed hospital building project, no trees are being felled.

2. 20% of the total plot area shall be kept under Green Belt cover within the Project site.

   We are providing green belt in 20% of total plot area within project premises.

3. Project Proponent to prepare a 10 years Green Belt Management Plan and submit to SEIAA before commencing the project work.

   We are preparing 10 years Green Belt Management Plan and it will be submitted to SEIAA shortly.

4. Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured in the ratio of species cut to species planted. Area for green belt development shall be provided as per the details provided in the project document.

   For construction of proposed hospital building project, no trees are being felled.

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

   The project area is low lying area. Removal of top soil is minimal.

**VIII. Transport**

1. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI) shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.

   a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
   
   b. Traffic calming measures.
   
   c. Proper design of entry and exit points. Parking norms as per local regulation.

   Comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI) is being prepared which includes motorized, non-motorized, public, and private networks. Roads are designed with due consideration for environment, and safety of users.

2. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards shall be operated only during non-peak hours.

   Vehicles hired for bringing construction material to the site are in good condition with PUC compliant which conforms to applicable air and noise emission standards. These vehicles are being operated only during non-peak hours.

3. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the

   A detailed traffic management and traffic decongestion plan is being prepared to ensure that the current level of service of the roads within a 05 kms radius of the
<table>
<thead>
<tr>
<th>Condition of Environment Clearance Issued by SEIAA, Bihar</th>
<th>Compliance of Conditions</th>
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</thead>
<tbody>
<tr>
<td>05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D.</td>
<td>The project is maintained and improved upon after the implementation of the project. This plan will be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time.</td>
</tr>
</tbody>
</table>

**IX. Human Health Issues**

1. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask. We have provided dust masks to all workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution.

2. For indoor air quality the ventilation provisions as per National Building Code of India shall be followed. For improving indoor air quality the ventilation provisions have been made as per National Building Code of India.

3. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan will be implemented.

4. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project. We have provided temporary housing of labours nearby the project site (300 m.) with all necessary infrastructure and facility to maintain sanitary and hygienic measures. We have provided cooking gas and pressure cooker to the labourers for cooking food.

5. Occupational health surveillance of the workers shall be done on a regular basis. Occupational health surveillance of the workers is being done on regular basis.

6. A First Aid Room shall be provided at project site both during construction phase as well as operational phase of the project. We have provided first Aid Room in the project both during construction and operation of the project. All First Aid treatment will be free of cost.

**X. Corporate Environment Responsibility**

1. The project proponent shall comply with the provisions contained in this Ministry’s OM vide F. No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility. We will comply with the provisions contained in MoEFCC, OM vide F.No. 22-65/2017-IA.III dated 01st May 2018, as applicable, regarding Corporate Environment Responsibility.

2. The company / management shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company / management shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the SEIAA, Bihar as a part of six-monthly report. We have environmental policy duly approved by the Board of Directors. The environmental policy prescribes for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental conditions. The management have defined system of reporting infringements / deviation / violation of the environmental conditions. The copy of the board resolution in this regard will be submitted to the SEIAA, Bihar as a part of six-monthly report.

3. A separate Environmental Cell both at the project and A separate Environmental Cell both at the project and
<table>
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<tr>
<td>and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.</td>
<td>company head quarter level, with qualified personnel will be set up under the control of senior Executive, who will directly report to the head of the organization.</td>
</tr>
<tr>
<td>4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the SEIAA/ Ministry, Regional Office along with the Six Monthly Compliance Report.</td>
<td>Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company will be prepared and will be duly approved by competent authority. The year wise funds earmarked for environmental protection measures will be kept in separate account and will not be diverted for any other purpose. Year wise progress of implementation of action plan will be reported to the SEIAA/ Ministry, Regional Office along with the Six Monthly Compliance Report.</td>
</tr>
<tr>
<td>XI. Miscellaneous</td>
<td></td>
</tr>
<tr>
<td>1. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded Environment Clearance and the details of MoEF&amp;CC / SEIAA website where it is displayed.</td>
<td>We have advertised in two local newspapers of the District, indicating that the project has been accorded Environment Clearance and the details of MoEF&amp;CC / SEIAA website where it is displayed.</td>
</tr>
<tr>
<td>2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.</td>
<td>We have submitted copies of the environmental clearance to the Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.</td>
</tr>
<tr>
<td>3. All utility lines (electricity, telephone, cable, water supply, sewage, drainage, etc. shall be laid below ground level. Ducts shall be provided along and across the roads to lay the utility lines. Major trunk (water/sewerage) lines are to be laid along the utility corridor.</td>
<td>All utility lines (electricity, telephone, cable, water supply, sewage, drainage, etc. will be laid below ground level. Ducts will be provided along and across the roads to lay the utility lines. Major trunk (water/sewerage) lines will be laid along the utility corridor.</td>
</tr>
<tr>
<td>4. Rest room facilities shall be provided for service population.</td>
<td>We will provide rest room facilities for service population.</td>
</tr>
<tr>
<td>5. Food waste management facility Bio-composting unit preferably in the campus.</td>
<td>We are providing organic waste convertor and vermicomposting pit for food waste management within the project premises.</td>
</tr>
<tr>
<td>6. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.</td>
<td>We will upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on our website and update the same on half-yearly basis.</td>
</tr>
<tr>
<td>7. The project proponent shall abide by all the commitments and recommendations made in the EIA / EMP report, commitment made during their presentation to the State Expert Appraisal Committee.</td>
<td>We are abide by all the commitments and recommendations made in the EMP report &amp; commitment made during their presentation to the State Expert Appraisal Committee.</td>
</tr>
<tr>
<td>8. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.</td>
<td>We will submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.</td>
</tr>
<tr>
<td>9. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment</td>
<td>We will submit the environmental statement for each financial year in Form-V to the Bihar State Pollution Control Board as prescribed under the Environment</td>
</tr>
<tr>
<td>CONDITION OF ENVIRONMENT CLEARANCE ISSUED BY SEIAA, BIHAR</td>
<td>COMPLIANCE OF CONDITIONS</td>
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<tr>
<td>prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.</td>
<td>(Protection) Rules, 1986, as amended subsequently and put on the website of the company.</td>
</tr>
<tr>
<td>10. The project proponent shall inform the SEIAA, Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.</td>
<td>Agreed</td>
</tr>
<tr>
<td>11. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.</td>
<td>Agreed</td>
</tr>
<tr>
<td>12. No further expansion or modifications in the project shall be carried out without prior approval of the SEIAA.</td>
<td>No further expansion or modifications in the project will be carried out without prior approval of the SEIAA.</td>
</tr>
<tr>
<td>13. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.</td>
<td>Agreed</td>
</tr>
<tr>
<td>14. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.</td>
<td>Agreed</td>
</tr>
<tr>
<td>15. The SEIAA reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.</td>
<td>Agreed</td>
</tr>
<tr>
<td>16. The Regional Office of this Ministry/ SEIAA shall monitor compliance of the stipulated conditions. The project authorities shall extend full cooperation to the officer(s) of the Regional Office / SEIAA, Bihar by furnishing the requisite data / information / monitoring reports etc.</td>
<td>Agreed</td>
</tr>
<tr>
<td>17. The above conditions shall be enforced, inter-al is under the provisions of the Water (Prevention &amp; Control of Pollution) Act, 1974, the Air (Prevention &amp; Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter</td>
<td>Agreed</td>
</tr>
<tr>
<td>18. Environmental clearance shall remain valid for a maximum period of 7 years or completion of project whichever is earlier.</td>
<td>Agreed</td>
</tr>
<tr>
<td>19. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.</td>
<td>Agreed</td>
</tr>
</tbody>
</table>
संचिका सं-10/विशिष-15-29/2013…………………..3(10)

बिहार सरकार
स्वास्थ्य विभाग

प्रेसक, इन्स्पेक्टर

राम ईश्वर,
सरकार के संयुक्त सचिव ।

सेवा में,

प्रबंधक (प्रशासन),
Global Health Patliputra Pvt. Ltd.

नई दिल्ली।

पटना, विंगांक—13/4/2018

विश्वासभाजन,

विषय—जय प्रभा अस्पताल परिसर, कंकडबाग, पटना में जन निजी भागीदारी के तहत स्थापित किये जा रहे सुपर स्पेशिलिटी अस्पताल से संबंधित नक्शा (Drawing) सरकारी वास्तुविद्या से स्वीकृति प्राप्त करने के संबंध में ।

महाशय,

निदेशानुसार, उपर्युक्त विषय के संबंध में कहना है कि जय प्रभा अस्पताल परिसर, कंकडबाग, पटना में जन निजी भागीदारी से सुपर स्पेशिलिटी अस्पताल स्थापित करने हेतु नई दिल्ली के साथ विंगांक—22.08.2015 को स्वास्थ्य विभाग द्वारा Concession Agreement हस्ताक्षरित किया गया है । इस क्रम में आपके पत्रक्रम—02, विंगांक 20.12.2017 से New FAR 2.75 के अनुसार नक्शा (Drawing) को अनुमोदित करने का अनुरोध पटना नगर निगम, पटना से किया गया था, लेकिन उनके द्वारा पत्रक्रम—1960/प.न.नि., विंगांक—07.03.2018 (प्रतिलिपि संलग्न) से परामर्श दिया गया है कि बिहार भवन उपविधि 2014 के कड़िका 8(A) के आलोक में सरकारी वास्तुविद्या से नक्शा (Drawing) पर स्वीकृति प्राप्त कर लें।

अनुरोध है कि नियमानुसार एवं परंपरागत नक्शा (Drawing) को यथाश्रेष्ठ विनिमय प्रक्रिया के अनुसार अनुमोदित करने की कारवाई की जाए।

अनुरोधक: यथोक्ता।

विश्वासभाजन,

(राम ईश्वर)
पटना नगर निगम

प्रेषक,
निदेशक,
शहीर योजना,
पटना नगर निगम, पटना।

संस्थान,

श्री राम ईश्वर, संस्थान के संयुक्त सचिव, विहार, पटना।

विषय: बिहार भवन उपविधि 2014 के क़ाड़का 8(A) के आलोक में Government Architect से नक़्शे को पुनर्चित्रित स्थिरकृत करने के संबंध में।

प्रारंभ: जय प्रभा मेदना सुपर स्पेशियलिटी अस्पताल के पार्क- संचिका संख्या-10/विविध-15-29/2013 1342 (10), दिनांक-08.02.2018

महाशय,

उपर्युक्त विषयक प्रारंभिक पत्र के आलोक में कहना है कि जय प्रभा मेदना सुपर स्पेशियलिटी अस्पताल कंकडब्याग पटना में जन निजी रथैयारी के तहत स्थापित किया जा रहा है। उक्त अस्पताल को पुनर्चित्रित नक़्शे को स्थिरकृत के संबंध में Government Architect से नक़्शे को स्थिरकृत करने के संबंध में बिहार भवन उपविधि 2014 के क़ाड़का 8(A) में विस्तृत रूप से विचरण की गई है, जो नीतिशीर्षि है।

"No permission shall be necessary for works carried out by Central Government and State Government Departments/Bihar State housing Board if the plans are signed by Government Architects. However the Government Architects shall ensure that the plans are prepared as per the provisions of these bye laws and the master plan/development plan wherever applicable. In case of such Government Projects lying in the area outside of any development plan/scheme, the Government Architects shall ensure to obtain NoCs required as per provision of this bye laws and Acts." 

उपर्युक्त क़ाड़का में स्पष्ट उल्लेखित है कि Government Architect नक़्शे की स्थिरकृत से पूर्व प्रस्तावित निर्माण के संबंध में भवन उपविधि 2014 की सुरुवात भागों एवं अभिनियमों के उपभंडों के अनुसार तथा अपेक्षित सभी अनापसियां प्रमाण-पत्नों के संबंध में आश्वस्त हो लिये।

अतः: पटना नगर निगम बिहार भवन उपविधि 2014 के क़ाड़का 8A के आलोक में उपरोक्त योजना को सरकारी वासुधारा द्वारा हस्ताक्षरित हो एवं ऐसे मामले में सरकारी वासुधारा यह सुनिश्चित करने कि इस उपविधि एवं अभिनियमों के उपभंडों के अनुसार अपेक्षित अनापसिय प्रमाण-पत्र प्राप्त कर लिये गये हैं, के आलोक में नक़्शे पर सरकारी वासुधारा के अनुमोदन के परमाणु प्रस्तावित निर्माण हेतु अनापसिय प्रमाण-पत्र प्रस्ताव करती है।

विवशास्थापन

[विवशास्थापन का नाम]

विदेशी, विदेशी संस्थान,
पटना नगर निगम, पटना।

[दिनांक] 23/3/18
From,

Upeendra Prasad Singh,
State Fire Officer,
Bihar, Patna.

To,

Shri Ujjwal Kumar,
Manager Administration,
Global HealthPatliputra Pvt. Ltd.

Sub :-
The views regarding proposed Hospital building of above 15 mtr. in height to be constructed at Kankarbagh, Dist- Patna

Sir,

Please refer to your letter no.- GHPPL/Misc/016/17 dt. – 09/10/2017, through which this aforesaid plan has been sent to us for examination, which was examined by the Fire Service Committee.

During examination, of the plan it was found that a B+G+10 (Total B/U area-73269.646 Sqmtr.), Hospital building, shall be constructed on 80 feet wide road belongs to Jayprabha Medanta Super Speciality Hospital (a unit of GHPPL) at Kankarbagh, Dist- Patna.

We clear the plan after giving following advice/suggestions/recommendations based on NBC guidline, local building by laws & the local circumstances which must be followed by the concerned Architect / Developer/ Land owner as the case may be.

i) **Construction**
   a) The whole construction of the proposed building shall be carried out as per approved plan drawing conforming the relevant building rules of local Municipal Corporation as per Building Bye laws Bihar, 2014.
   b) The floor area exceeds 750 m² shall be suitably compartmented by separation walls up to ceiling level having at least two hours Fire resisting capacity.
   c) The interior finish decoration of the building shall be made low flame spread materials conforming I.S. specifications.
   d) Provision of ventilation at the crown of the central core-duct of the building shall be provided.
   e) Arrangements shall have to be made for sealing all the vertical ducts by the materials of adequate Fire resisting capacity.

ii) **Open Space & Approach**
   a) The open space surrounding the building shall conform the relevant building rules as well as permit the accessibility and maneuverability of Fire appliance with turning facility 3.60 m/s (minimum).
   b) The approach roads shall be sufficiently strong to withstand the load of Fire Engine weighting up to 20 M.T.
   c) The width and height of the access gates into the premises shall not be less than 4.5 M and 5M respecting abutting the road.

iii) **Stair Case**
   a) The Staircase of the building shall be enclosed type. Entire construction shall be made of brick / R.C.C. type having Fire resisting capacity not less than 4 hours respectively marked in the plan.
   b) The Staircase of the building shall have permanent vents at the top equal to 5% of the cross sectional area of the staircase enclosures and operable sashes at each floor level equal to 15% of the said cross section are shall have to be provided in the external wall of the building.
   c) All the Staircase of the building shall be negotiable to each other in each floor without entering into any room and shall be extended up to respective terrace. The roof of the Stair wall shall be 1M above the surrounding roof area.
   d) The width of the Staircases and corridor and travel distance of different categories of occupancies shall have to conform the relevant building rules.
   e) In case of two staircase, one must be on outer wall.
   f) Both staircase are not meant down to basement floor, for approach to basement, there should be another staircase for approach.
iv) LIFT ::

a) The walls of the Lift enclosure of the building shall be at least two hours Fire resisting type respectively marked in the plan with the event at top of area not less than 0.2 m².

b) The lift of the building shall be designed at high speed “Fire Lift” and conspicuously indicated marked in the plan.

c) In case of failure of normal electric supply, it shall automatically trip over to alternate supply. For apartment houses these change over of supply could be done through manual operated change over switch. Alternatively, the lift shall be so wired that in case of power failure, it comes down at the ground level land comes to stand still with door open.

d) Arrangement shall be provided for extraction of smoke in all the lift shaft by incorporation smoke venting system designed to permit 30 Air changes per hour in case of Fire and shall be of such design as to operate on actuation of sprinkler or Fire Alarm. In case of failure of normal electric supply. It shall automatically trip to alternate supply.

e) All other requirements shall conform the I.S. specification including the communication facility in the lift cars connecting with the Fire Control Room of the building.

v) That the basement should be equipped with automatic sprinkler’s installation & must have two separate exits.

vi) That entire building be equipped with automatic alarm system & sprinkler’s installation.

vii) That active Fire protection system such as down corner system & wet riser system with landing valve and hose reel at each floor incorporated with 900 LPM pump at Terrace level, ISI marked Fire extinguishers as per IS 2190/1992 & relevant specification, smoke detection system, Heat detector, F.R. check door, manual call alarm point, Fire safety luminescent sign & other Fire precautionary measures as mentioned in NBC be provided before occupancy.

viii) That an underground water static tank of not less than 1,00,000 Ltrs. capacity with automatic refilling arrangements preferably on front side where Fire Brigade vehicles can reach easily & overhead water static tank of not less than 20,000 Ltrs. capacity should be provided before occupancy.

ix) That the internal finishing shall be non-combustible or class - I surface spread of flame.

x) That electric cables must be shield at each floor with intumescent coating.

xi) That a refugee area of 15M² above 8th floor be made available as per NBC norms.

xii) That fire exit drill be carried out regularly at least twice in a year after occupancy.

xiii) That the building must be constructed on at least 40 feet wide road and it is responsibility of the concerned Architect to be ensure the road width because he is the passing authority.

xiv) That AMC should be given to a qualified firm or person for the maintenance of above recommended Fire equipments.

xv) That the setback shall be checked by the Architect / Passing authority as per the established rule. If any thing wrong, the Architect / Passing authority shall be held responsible.

xvi) It is hereby made clear that in case of any legal dispute arising in future, in which above recommendations have not been complied, the responsibility will fall entirely upon the Developers/ Architect/ Landowner as the case may be and not on the recommending Govt. authority ( i.e. the office of the State Fire Office, Bihar).

xvii) It is hereby made also clear that this office (i.e. the office of the State Fire Officer-cum-Director, Bihar, Patna) is not responsible for any legal dispute of the land upon which the proposed building shall be constructed.

This shall be treated as provisional. On compliance of all the above Fire and Life Safety recommendations, this office shall be approached for necessary inspection and testing of the installation. Final in favor of the occupancy shall be issued on being satisfied with the tests and performances of safety aspects of installation of the building.

N.B.- Any deviation and changes the nature of use of the building in respect of the approved plan drawing without obtaining prior permission from this office, this provisional will be treated as cancelled.

The maps are being returned with sign and stamp.

Yours faithfully,

[Signature]

Formal - As Above

[State Fire Office
(Upper Pradesh Singh)
Bihar, Patna)
System Generated Auto Assessment for Height Clearance

1. Airports Authority of India (AAI) in pursuance of responsibility conferred by and as per the provisions of Govt. of India (Ministry of Civil Aviation) order GSR 751 (E) dated 30th Sep. 2015 for Safe and Regular Aircraft Operations has assessed the site data filled by the applicant.

2. Assessment details for Height Clearance:

   NOCID : PATN/EAST/B/102616/178922
   Applicant Name : Dr. Gopal Sharan
   Type of Structure : Building
   Site Address : NC/Jayprabha Medanta Super Speciality Hospital
   Site Coordinates : 85 09 08.68-25 35 52.54, 85 09 09.55-25 36 01.17, 85 09 11.74-25 35 52.52, 85 09 12.55-25 36 00.11,
   Site Elevation AMSL in Mtrs as Submitted by Applicant: 48 M

Your site is located at a distance 6173 mts from ARP and lies in the grid L17 of the published CCZM of Patna airport. The permitted top elevation for this grid is 115 mts.

Since the requested top elevation 108 mts in AMSL is below CCZM permitted top elevation, the NOC for height clearance is not required from Airports Authority of India.

3. This assessment is subject to the terms and conditions as given below:

   a. The site-elevation and site coordinates provided by the applicant are taken for calculation of the permissible top elevation for the proposed structure. If, however, at any stage it is established that the actual data is different from the one, provided by the applicant, this NOC will become invalid.

   b. The assessment is further subject to the provisions of Section 9-A of the Indian Aircraft Act, 1934 and any notifications issued there under from time to time including the Aircraft(Demolition of Obstruction caused by Buildings and Trees etc.) Rules, 1994.

   c. The applicant is responsible to obtain all other statutory clearances from the concerned authorities including the approval of building plans. This assessment for height is to ensure the safe and regular aircraft operations and shall not be used as document for any other purpose/claim whatsoever, including ownership of land etc.

   d. This assessment has been issued w.r.t. the Civil Airports as notified in GSR 751(E). Applicant needs to seek separate NOC from Defence, if the site lies within jurisdiction of Defence Airport.
This assessment is system auto generated and thus does not require any signature

Designated Officer
Region Name: EAST
Address: General Manager Airports
Authority of India, Regional
Headquarters, Eastern Region,
N.S.C.B.I Airport,
Kolkata-700052

Email ID: gmatmer@aai.aero
Contact No: 033-25111293
FORM – XVI
CERTIFICATE OF UNDERTAKING
FOR HAZARD SAFETY REQUIREMENT
Bye laws No.-59

To,
The Manager-Admn.
Jayprabha Medanta Superspeciality Hospital Project
PC Colony
Kankarbagh
PATNA – 800 020

Ref. : Proposed Work of Jayprabha Medanta Superspeciality Hospital Project at PC Colony, Kankarbagh of Patna District, Pin 800020,

1. Certified that the building plans submitted for approval will satisfy the safety requirements as stipulated under Building Bye Laws 59 and the information given therein is factually correct to the best of our knowledge and understanding.

2. It is also certified that the Construction of Building is according to structural design including safety from hazards based on soil condition shall be duly incorporated in the design of the building and these provisions shall be adhered to during the construction.

Signature of Manager-Admn. with Date 23.10.2018
Name and Address in Block Letters  UJJWAL KUMAR
Manager – Admn.
Jayprabha Medanta Superspeciality Hospital Project
PC Colony, Kankarbagh
PATNA – 800 020

Signature of Civil Engineer on Record with date 23.10.2018
(Declared competent person under Rule 3A of Bihar Factories Rules 1950 vide CIF Memo No.532 Date :30.06.2018, valid upto 30.06.2019

VINAY KUMAR
S.S. Enterprises
310 B, Ambition Sapphire
Opp. Pillar No. 24, Bailey Road,
Khajipura, PATNA – 800 014
Office of the Chief Inspector of Factories, Bihar, Patna.

CERTIFICATE OF COMPETENCY.

Memo No:- 532-- Patna, dated 30-6-18

I, Dr. R.K. Kumar, Chief Inspector of Factories, Bihar, Patna, in exercise of the powers conferred on me under section 2 (ca) of the Factories Act, 1948 and Rules made there under, hereby recognize Shri Abhishek Kumar, Engineer (Mechanical), (2) Shri Anil Kumar Sinha, Engineer (Chemical) and (3) Shri Vinay Kumar, Engineer (Civil) employed in M/s S.S. Enterprises, 310B, Ambition Sapphire, Bailey Road Khajipura, Patna-14 to be competent person for the purpose of carrying out building, stability test, examination inspection and certification of Hoist of lift, Lifting Machines, Lifting tools & tackles, Chains, Ropes, Hoist lifts as well as pressure vessels plant under Section 28, 29, 31 of the Factories Act, 1948 and Rules 3A, 56A, and 57 of the Bihar factories Rules, 1950.

The Certificate shall be valid from 01.07.2018 to 30.06.2019

This certificate is issued subject of the following condition:-

(I) The tests, examination and inspections shall be carried out in accordance with the provision of the Act and Rules made there under.

(II) The tests, examinations and inspection shall be carried out under the direct supervision of the competent persons.

(III) The ‘CERTIFICATE OF THE COMPETENCY’ shall stand cancelled, if the person declared competent leaves the organization as mentioned in the application.

(IV) The ‘CERTIFICATE OF THE COMPETENCY’ granted may be withdrawn if it is felt that examination are not being carried out satisfactorily.

(V) A copy of the report of every examination shall be sent to the Circle Inspector of Factories as well as to the Chief Inspector of Factories, Bihar for information and record.

(Dr. R.K. Kumar)
Chief Inspector of Factories, Bihar,
Patna.

Signature of Shri K.K. Verma, Competent Person
& Proprietor of S.S. Enterprises is attested below.

Signature of Shri K.K. Verma Attested

Chief Inspector of Factories, Bihar

Memo No:- 532-- Patna, dated 30-6-18

Chief Inspector of Factories, Bihar,
Patna.
TO WHOM SOEVER IT MAY CONCERN

Structural Certificate for project “Medanta Super Specialty Hospital at Kankarbagh, Patna, Bihar”

This is to certify that the structural design of above-mentioned building by us & confirm to the requirement of relevant Indian Standard Codes and National Building codes in respect of ‘Structural Safety’ in general and Natural hazards including earthquake in particular. It is also important to note that all buildings are designed for the number of stories as per architect drawings.

Date: 4.10.2018

Signature of Structure Engineer

PANKISH GOEL
M.Sc., (Struct), USA, M.A.S.C.E.
CONSULTING STRUCTURAL ENGINEER
TPC TECHNICAL PROJECTS CONSULTANTS PVT. LTD.
B-74, Sector-57, Noida - 201301

DESIGN & ENGINEERING \ COST & QUALITY MANAGEMENT \ RETROFITTING
State University of New York at Buffalo

Upon the recommendation of the faculty of the State University of New York at Buffalo, the Trustees of the State University of New York have conferred on

Pankish Goel

the degree of

Master of Science

with all the rights, privileges, honors, and responsibilities thereto appertaining, and as evidence thereof have granted this diploma in Buffalo, New York on the first day of February, in the year one thousand nine hundred and ninety-six.

Chairman of the Board of Trustees of the State University of New York

Chancellor of the State University of New York

Chairman of the Council of the State University of New York at Buffalo

President of the State University of New York at Buffalo
The Institution of Engineers (India)

By virtue of Qualification, Professional training and Corporate Membership of this Institution

PANKISH GOEL

OF

CIVIL ENGINEERING DIVISION

is hereby authorised to use the style and title of

Chartered Engineer [India]

AM1003685

Dated 22-02-2018

Secretary and Director General
The Institution is pleased to elect
PANKISH GOEL
as
Associate Member
on the Thirty First day of July 2012
In witness whereof the said Institution has caused its Common Seal to be
affixed this Thirty First day of July 2012

Member of Council

Secretary and Director General
CONSENT -TO- ESTABLISH (NOC)


REFERENCE:
Reference application no.1724766 dated 11.09.2018 of M/s Jaiprabha Medanta Super Speciality Hospital for setting up a Health Care Facilities at NC/Jaiprabha Hospital, Kankarbagh, Patna-20.

AFTER CONSIDERING:

(i) The facts stated in their application
(ii) Bihar State Pollution Control Board’s Notification No. 26, dated 08.11.2003

NOC IN FAVOUR OF THE PROPOUNENT FOR ESTABLISHMENT OF A 500 BEDDED HEALTH CARE FACILITY AT THE SAID SITE (BUILT UP AREA 66,701.867 SQ. MT.) IS HEREBY ACCORDED SUBJECT TO THE FOLLOWING CONDITIONS:

(i) The Propouent shall obtain consent-to-operate under section 25/26 of the Water Act, 1974 & under section 21 of the Air Act, 1981;

(ii) The effluent (domestic and liquid waste) shall conform to the standards as prescribed by the Board;

(iii) Effluent Treatment Plant / Sewage Treatment Plant shall be constructed as per the CPCB guidelines;

(iv) The minimum height of the exhaust pipe of the D.G set shall be 3 meters above roof of the building in which installed and the noise level shall be controlled by having D.G set with integrated acoustic enclosure;

(v) Appropriate management measures for treatment and disposal of bio-medical wastes of each category as per the provisions of schedule-I of the Bio-medical waste Management Rules, 2016 shall be done;

Contd..2..
(vi) They shall maintain the record as per the Bio-medical Waste Management Rules, 2016

(vii) Adequate fire protection equipments (such as smoke detectors, fire extinguishers, sand buckets, fire alarm, water sprinkles etc) at salient places within the premises even at bio-medical storage area in accordance with the fire safety regulations should be installed. Required certificate from Fire Safety Deptt. shall be obtained by the occupier;

(viii) The Bihar State Pollution Control Board reserves the option to revise and add other conditions if necessary for protection of Environment in general and pollution control in particular;

(ix) The present NOC should not be construed as an assurance for granting consent to operate to the proposed unit and in subject to compliance of all the conditions noted above;

(x) This NOC is valid for period of two years from the date of issue;

(xi) This N.O.C is issued by instruction of the competent authority,

(Alok Kumar)
Member Secretary

To,
Mr. Ujjwal Kumar,
M/s Jaiprabha Medanta Super Speciality Hospital,
NC/ Jaiprabha Hospital, Kankarbagh,
Patna - 800020
सेवा में,

श्री उज्ज्वल कुमार  
Manager Administration  
Medanta, Patna.

विषय:— 3 Nos borewells लगाने हेतु अनापति प्रमाण—पत्र के संबंध में |

प्रसंग:— आपका पत्रांक—Ref.No. GHPPL/NOS/PMC/19-07 दिनांक—18.03.19

महाशय,

प्रासंगिक पत्र द्वारा किये गये आवेदन के आलोक में विषयांकित 3 Nos borewells, Hospital Compu में लगाने हेतु अनापति प्रमाण—पत्र निर्गत किया जाता है। 
इस पर सक्षम प्राधिकार की अनुमति प्राप्त है।

विश्वासभाजन

मुख्य नगर अभियंता, 
पटना नगर निगम।
# Test Report

**Global Health Patliputra Pvt. Ltd.**  
(Medanta Super Speciality Hospital Project)  
Near Jayprabha Hospital  
PC Colony, Kankarbagh  
PATNA – 801 503

**Shiva Test House**

**Laboratory Address:**  
01ST FLOOR, RAJHANS NIKETAN,  
NEAR CANAL, RUKUNPURA,  
BAILEY ROAD,  
PATNA – 800 014 (BIHAR)

**Tel:** 0612 – 2241638 / 2263538  
**E.mail:** sthpatna1@yahoo.co.in

**Recognised as Environmental Laboratory by MoEFCC, Govt. of India under Environment (Protection) Act 1986 (Valid up to Oct.’2024), by Deptt. of Industry, Forests & Environment, Govt. of Bihar and Bihar State Pollution Control Board**

## Test Report

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>G/TR/19-20/802</th>
<th>Dt: 15.11.2019</th>
<th>Your Work Order No.</th>
<th>NIL</th>
<th>Dt: 02.11.2019</th>
</tr>
</thead>
</table>

### a. Name and Address of the Customer

Global Health Patliputra Pvt. Ltd.  
(Medanta Super Speciality Hospital Project)  
Near Jayprabha Hospital  
PC Colony, Kankarbagh  
PATNA – 801 503

### b. Report to be submitted to

General Manager

### c. Details of Sample

Monitoring of Ambient Air Quality at Project Site of Medanta Super Speciality Hospital Project, Kankarbagh, Patna

### d. Sample collected by

Shiva Test House on 08/09.11.19

### e. No. & Type of Container

Filter Paper & Glass Impinger

### f. Items required to be tested

As per Contract

### g. Whether any specific Method of Test has been suggested by the Party

NO

### h. Date of Receiving the sample

09.11.19

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Method of Test</th>
<th>Near Main Gate</th>
<th>Near Back Gate</th>
<th>Near Site Office</th>
<th>Limit as per NAAQS Nov. 2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particulate Matter (PM&lt;sub&gt;10&lt;/sub&gt;)</td>
<td>IS 5182 (Part-23)</td>
<td>72.8</td>
<td>68.9</td>
<td>76.4</td>
<td>100 µg/m³</td>
</tr>
<tr>
<td>Particulate Matter (PM&lt;sub&gt;2.5&lt;/sub&gt;)</td>
<td>CPCB GMAAP</td>
<td>52.0</td>
<td>41.2</td>
<td>45.6</td>
<td>60 µg/m³</td>
</tr>
<tr>
<td>Sulphur Dioxide as SO&lt;sub&gt;2&lt;/sub&gt;</td>
<td>IS 5182 (Part-2)</td>
<td>9.5</td>
<td>6.2</td>
<td>5.1</td>
<td>80 µg/m³</td>
</tr>
<tr>
<td>Nitrogen Dioxide as NO&lt;sub&gt;2&lt;/sub&gt;</td>
<td>IS 5182 (Part-6)</td>
<td>25.2</td>
<td>21.8</td>
<td>16.4</td>
<td>80 µg/m³</td>
</tr>
</tbody>
</table>

**Average Value**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>PM&lt;sub&gt;10&lt;/sub&gt;</th>
<th>PM&lt;sub&gt;2.5&lt;/sub&gt;</th>
<th>SO&lt;sub&gt;2&lt;/sub&gt;</th>
<th>NO&lt;sub&gt;2&lt;/sub&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>98.3</td>
<td>62.2</td>
<td>12.5</td>
<td>26.7</td>
</tr>
</tbody>
</table>

---

1. This report applies only to sample tested as above.
2. Total Liability of our Laboratory is limited to invoiced amount.
3. Test Report endorsed only the tests and not the product certificate.
4. Test Report can not be reproduced partially or full for legal/court purpose without written permission of the Laboratory.
**SHIVA TEST HOUSE**

**Tel.:** 0612 – 2241638 / 2263538  
**E.mail.:** sthpatna1@yahoo.co.in

**OHSAS Certified**

**Recognised as Environmental Laboratory by MoEFCC, Govt. of India under Environment (Protection) Act 1986 (Valid up to Oct.'2024), by Deptt. of Industry, Forests & Environment, Govt. of Bihar and Bihar State Pollution Control Board**

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**TEST REPORT**

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<th>Dt.</th>
<th>15.11.2019</th>
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<th>NIL</th>
<th>Dt.</th>
<th>02.11.2019</th>
</tr>
</thead>
</table>

[a] **Name and address of the Customer**  
Global Health Patliputra Pvt. Ltd.  
(Medanta Super Speciality Hospital Project)  
Near Jayprabha Hospital  
PC Colony, Kankarbagh  
PATNA – 801 503

[b] **Report to be submitted to**  
General Manager

[c] **Details of Sample**  
Monitoring of Ambient Noise Level Project Site of  
Medanta Super Speciality Hospital Project, Kankarbagh, Patna

[d] **Monitored by**  
Shiva Test House on 08/09.11.19

[f] **Items required to be tested**  
As per Instruction

[g] **Whether any specific Method of Test has been suggested by the party**  
No

**Monitoring Location**

<table>
<thead>
<tr>
<th>Monitoring Location</th>
<th>Day Time (6:00 am to 9:00 pm) Time Weighted Average (TWA) of Noise Level in dB(A)</th>
<th>Day Time (10:00 pm to 6:00 am) Time Weighted Average (TWA) of Noise Level in dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Near Main Gate</td>
<td>69.7</td>
<td>51.6</td>
</tr>
<tr>
<td>2. Near NE Corner of Project Area</td>
<td>67.3</td>
<td>44.3</td>
</tr>
<tr>
<td>3. Near SE Corner of Project Area</td>
<td>53.1</td>
<td>40.8</td>
</tr>
<tr>
<td>4. Near NW Corner of Project Area</td>
<td>66.5</td>
<td>43.1</td>
</tr>
<tr>
<td>5. Near SW Corner of Project Area</td>
<td>52.1</td>
<td>38.4</td>
</tr>
</tbody>
</table>

**N.B.**

1. The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 75.0 dB(A), for Commercial area is 65.0 dB(A), for Residential area is 55.0 dB(A) & for Silence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.

2. The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 70.0 dB(A), for Commercial area is 55.0 dB(A), for Residential area is 45.0 dB(A) & for Silence Zone is 40.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.

---

**Authorized Signatory**  
Quality Manager / Dy. Quality Manager

---

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**TEST REPORT**

<table>
<thead>
<tr>
<th>Ref. No. G/TR/19-20/804</th>
<th>Dt: 15.11.2019</th>
<th>Your Work Order No. NIL</th>
<th>Dt : 02.11.2019</th>
</tr>
</thead>
</table>

[a] Name and address of the Customer

Global Health Patliputra Pvt. Ltd.
(Medanta Super Speciality Hospital Project)
Near Jayprabha Hospital
PC Colony, Kankarbagh
PATNA – 801 503

[b] Report to be submitted to

Sr. Manager

c] Details of Sample

Monitoring of Stack Emission of DG Set (125 KVA) installed at project site

d] Sample Collected by

SHIVA TEST HOUSE on 08.11.19

e] No. & Type of Container

Thimble & Glass Impinger

[f] Items required to be tested

As per request

[g] Whether any specific Method of Test has been suggested by the party

No

[h] Date of receiving the sample

08.11.19

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Method of Test</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Type of Fuel</td>
<td>HSD (35 ltr./hr.)</td>
<td></td>
</tr>
<tr>
<td>2. Stack Connected to</td>
<td>125 KVA DG Set Exhaust</td>
<td></td>
</tr>
<tr>
<td>3. Height of Exhaust (as reported)</td>
<td>4 m.</td>
<td></td>
</tr>
<tr>
<td>4. Inner Dia of Exhaust at Top (as reported)</td>
<td>0.15 m.</td>
<td></td>
</tr>
<tr>
<td>5. Draft</td>
<td>Natural</td>
<td></td>
</tr>
<tr>
<td>6. Material of Construction</td>
<td>M.S.</td>
<td></td>
</tr>
<tr>
<td>7. Ambient Temperature, °C</td>
<td>28.0</td>
<td></td>
</tr>
<tr>
<td>8. Flue Gas Temperature, °C</td>
<td>186.0</td>
<td></td>
</tr>
<tr>
<td>9. Velocity, m/sec.</td>
<td>IS 11255 (Part-3)</td>
<td>9.1</td>
</tr>
<tr>
<td>10. Volumetric Flow Rate (NM³/hr.)</td>
<td>375.66</td>
<td></td>
</tr>
<tr>
<td>11. Sampling Point</td>
<td>Top of the Exhaust</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concentration (mg / NM³)</th>
<th>Limit as per E (P) Rules</th>
</tr>
</thead>
<tbody>
<tr>
<td>12. Particulate Matter (P.M.)</td>
<td>IS 11255 (Part-1)</td>
</tr>
<tr>
<td>13. Sulphur Dioxide (SO₂)</td>
<td>IS 11255 (Part-2)</td>
</tr>
<tr>
<td>14. Oxides of Nitrogen (NOx)</td>
<td>IS 11255 (Part-7)</td>
</tr>
</tbody>
</table>

Authorized Signatory

Quality Manager / Dy. Quality Manager

---

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4. Test Report can not be reproduced partially or full for legal/court purpose without written permission of the Laboratory.
Ref. No.  G/TR/19-20/805     Dt: 15.11.2019     Your Work Order No. NIL     Dt : 02.11.2019

[a] Name and address of the Customer
Global Health Patliputra Pvt. Ltd. (Medanta Super Speciality Hospital Project)
Near Jayprabha Hospital
PC Colony, Kankarbagh
PATNA – 801 503

[b] Report to be submitted to
General Manager

[c] Details of Sample
Ground Water sample from Borewell inside Project Site of Medanta Super Speciality Hospital Project, Kankarbagh, Patna

[d] Sample Collected by
SHIVA TEST HOUSE on 08.11.19

[e] No. & Type of Container
One polypropylene bottle & One Sterilized Glass bottle

[f] Items required to be tested
As per request

[g] Whether any specific Method of Test has been suggested by the party
No

[h] Date of receiving the sample
08.11.19

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Parameters</th>
<th>Limit as per IS 10500 : 2012</th>
<th>Method of Test</th>
<th>Results in mg/l. except colour, Odour, Taste, Turbidity, &amp; pH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Colour</td>
<td>5 Hazen Limit 15</td>
<td>IS 3025 (Part-4)</td>
<td>&lt; 5.00</td>
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<tr>
<td>2</td>
<td>Odour</td>
<td>Agreeable Agreeable</td>
<td>IS 3025 (Part-5)</td>
<td>Agreeable</td>
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<tr>
<td>3</td>
<td>Taste</td>
<td>Agreeable Agreeable</td>
<td>IS 3025 (Part-7)</td>
<td>Agreeable</td>
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<tr>
<td>4</td>
<td>pH</td>
<td>6.5 to 8.5 No relaxation</td>
<td>IS 3025 (Part-11)</td>
<td>7.25</td>
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<tr>
<td>5</td>
<td>Turbidity on NTU</td>
<td>1.0</td>
<td>IS 3025 (Part-10)</td>
<td>&lt; 1.00</td>
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<tr>
<td>6</td>
<td>Total Dissolved Solids (TDS)</td>
<td>500.00 2000.00</td>
<td>IS 3025 (Part-16)</td>
<td>388.0</td>
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<tr>
<td>7</td>
<td>Total Hardness as CaCO3</td>
<td>200.00 600.00</td>
<td>IS 3025 (Part-21)</td>
<td>212.0</td>
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<tr>
<td>8</td>
<td>Calcium as Ca</td>
<td>75.00 200.00</td>
<td>IS 3025 (Part-40)</td>
<td>60.0</td>
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<tr>
<td>9</td>
<td>Magnesium as Mg</td>
<td>30.00 100.00</td>
<td>IS 3025 (Part-46)</td>
<td>15.1</td>
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<tr>
<td>10</td>
<td>Iron as Fe</td>
<td>1.0</td>
<td>IS 3025 (Part-53)</td>
<td>0.26</td>
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<tr>
<td>11</td>
<td>Residual Free Chlorine</td>
<td>0.2 1</td>
<td>IS 3025 (Part-26)</td>
<td>&lt; 0.1</td>
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<tr>
<td>12</td>
<td>Total Alkalinity as CaCO3</td>
<td>200.00 600.00</td>
<td>IS 3025 (Part-23)</td>
<td>230.0</td>
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<tr>
<td>13</td>
<td>Chloride as Cl</td>
<td>250.00 1000.00</td>
<td>IS 3025 (Part-32)</td>
<td>12.0</td>
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<tr>
<td>14</td>
<td>Sulphate as SO4</td>
<td>200.00 400.00</td>
<td>IS 3025 (Part-24)</td>
<td>18.0</td>
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<tr>
<td>15</td>
<td>Nitrate as NO3</td>
<td>45.00 No relaxation</td>
<td>IS 3025 (Part-34)</td>
<td>5.0</td>
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<tr>
<td>16</td>
<td>Fluoride as F</td>
<td>1.0 1.5</td>
<td>APHA 4500 (F D)</td>
<td>0.69</td>
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<tr>
<td>17</td>
<td>Total Coliform Bacteria</td>
<td>Shall Not be Detectable in 100 ml.</td>
<td>IS 15185</td>
<td>Absent</td>
</tr>
</tbody>
</table>

1. This report applies only to sample tested as above.
2. Total Liability of our Laboratory is limited to invoiced amount.
3. Test Report endorsed only the tests and not the product certificate.
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