

**MINUTES OF MEETING OF 44TH STATE LEVEL EXPERT APPRAISAL COMMITTEE, CHANDIGARH (UT) HELD ON 02ND FEBRUARY, 2021 AT 11:00 AM IN THE CONFERENCE HALL, 2ND FLOOR, PARYAVARAN BHAWAN, SECTOR 19 B, CHANDIGARH TO APPRAISE THE ENVIRONMENT-CLEARANCE OF THE PROJECT, NAMELY:**

**“Proposed Construction of Advanced Mother & Child Centre (Phase-I) by Post Graduate Institute of Medical Education & Research at Sector-12, Chandigarh”. (SIA/CH/MIS/180532/2020)**

A meeting of the State Expert Appraisal Committee, Union Territory, Chandigarh was held on 02nd February'2021 at 11.00 AM, in the Conference Hall, 2nd Floor, Paryavaran Bhawan, Sector 19 B, Chandigarh under the chairmanship of Prof. Siby John, Department of Civil Engineering, Punjab Engineering College, Chandigarh.

Following is the list of members SEAC, Chandigarh (UT) present in the meeting:

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| 1. Prof Amrik Singh Ahluwalia<br>Department of Botany, Panjab University, Chandigarh-160014.   | Member    |
| 2. Dr. Sanjay Sharma, Professor & Head,<br>Civil Engineering Department, NITTTR Campus,<br>Sector-26, Chandigarh.                                | Member    |
| 3. Maj Gen C. S. Bewli<br>#165, Sector-36 A, Chandigarh-160036.  | Member    |
| 4. Prof. Haripada Bhunia, Professor,<br>Department of Chemical Engineering, Thapar University,<br># B-101, Thapar Tech. Campus, Patiala -147004. | Member    |
| 5. Sh. Vivek Pandey, Scientist B<br>Chandigarh Pollution Control Committee, Chandigarh.  | Member    |
| 6. Prof. Sangeeta Bagga Mehta, Principal,<br>Chandigarh College of Architecture, PEC Campus,<br>Sector-12, Chandigarh.                           | Member    |
| 7. Dr. Suman Mor, Associate Professor<br>Dept. of Environment Studies, Panjab University,<br>Chandigarh.   | Member    |
| 8. Dr. Neeraj Khatri, Principal Scientist & Head,<br>IMTECH, Sector-39 A, Chandigarh.  | Member    |
| 9. Dr. Harish Sharma, Scientist 'SD',<br>Department of Environment, Chandigarh Administration.   | Secretary |

The project proponent has submitted application for the grant of environmental clearance for the project “Proposed Construction of Advanced Mother & Child Centre (Phase-I) by Post Graduate Institute of Medical Education & Research at Sector-12, Chandigarh”. (SIA/CH/MIS/180532/2020).

The project details of the said proposal are as under:-

1.	Schedule /Item No.	8(a): Building and Construction Projects																											
2.	Category	B2																											
3.	Name and Location of the Project	Proposed Construction of Advanced Mother & Child Centre (Phase-I) by Post Graduate Institute of Medical Education & Research at Sector-12, Chandigarh.																											
4.	<p>The Cost of the Project = Rs. 303 crores.</p> <p>Activities:</p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Floors</th> <th>Details</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Basement 2</td> <td>Parking</td> </tr> <tr> <td>2.</td> <td>Basement-1</td> <td>Parking, Store, Record Room &amp; Services.</td> </tr> <tr> <td>3.</td> <td>Ground Floor</td> <td>Emergency, Blood Bank, Entrance Foyer, Canteen, Seminar halls (2no.)</td> </tr> <tr> <td>4.</td> <td>First Floor</td> <td>Clean labour Delivery(Delivery Room &amp; HDU), Operation Theatre(O.Ts) , CLR Nursery Complex &amp; Post-Partum Observation</td> </tr> <tr> <td>5.</td> <td>Second Floor</td> <td>Septic Labour Delivery Delivery Room &amp; HDU), Operation Theatre (O.Ts), Obstetrics Offices, SLR Nursery Complex (6bedded), Obstetrics ICU.</td> </tr> <tr> <td>6.</td> <td>Third Floor</td> <td>Post Natal Wards (30 Bedded), Antenatal Wards (30 Bedded), Comprehensive Lactation Management Centre, Antenatal Wards (30 Bedded), Post Natal Wards (30 Bedded).</td> </tr> <tr> <td>7.</td> <td>Fourth Floor</td> <td>Inborn NICU Lvl-III (18 Bedded &amp; 2 Isolation, Inborn NICU Lvl-III (18 Bedded &amp; 2 Isolation, NICU Office, Inborn NICU Lvl-III (Mothers Dormitory- 40 Bedded) &amp; Private Wards (10 Rooms)</td> </tr> <tr> <td>8.</td> <td>Fifth</td> <td>Inborn NICU Lvl-II (20 Bedded), Inborn NICU Lvl-II (20 Bedded), KMC Level-III (20 Bedded &amp; 3 bedded Rooming in Facility) &amp; Private Wards (10 Rooms)</td> </tr> </tbody> </table>		S.No.	Floors	Details	1.	Basement 2	Parking	2.	Basement-1	Parking, Store, Record Room & Services.	3.	Ground Floor	Emergency, Blood Bank, Entrance Foyer, Canteen, Seminar halls (2no.)	4.	First Floor	Clean labour Delivery(Delivery Room & HDU), Operation Theatre(O.Ts) , CLR Nursery Complex & Post-Partum Observation	5.	Second Floor	Septic Labour Delivery Delivery Room & HDU), Operation Theatre (O.Ts), Obstetrics Offices, SLR Nursery Complex (6bedded), Obstetrics ICU.	6.	Third Floor	Post Natal Wards (30 Bedded), Antenatal Wards (30 Bedded), Comprehensive Lactation Management Centre, Antenatal Wards (30 Bedded), Post Natal Wards (30 Bedded).	7.	Fourth Floor	Inborn NICU Lvl-III (18 Bedded & 2 Isolation, Inborn NICU Lvl-III (18 Bedded & 2 Isolation, NICU Office, Inborn NICU Lvl-III (Mothers Dormitory- 40 Bedded) & Private Wards (10 Rooms)	8.	Fifth	Inborn NICU Lvl-II (20 Bedded), Inborn NICU Lvl-II (20 Bedded), KMC Level-III (20 Bedded & 3 bedded Rooming in Facility) & Private Wards (10 Rooms)
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5.	<p>a) Total Plot area</p> <p>b) Built-up Area</p> <p>c) Green Area</p> <p>d) Height of Building</p>	<p>a) 10,862 Sqm.</p> <p>b) 43113.37 Sqm</p> <p>c) 3443.62 Sqm</p> <p>d) 26.4 Mtrs.</p>																											
6.	No. of Beds / Floors with Population	300 beds / 2 basements + Ground floor + 5 floors with total population of 2950 Persons.																											
7.	<p>Water Requirements &amp; Source:</p> <table border="1"> <thead> <tr> <th>Break up of Water Requirement</th> <th>Source</th> </tr> </thead> <tbody> <tr> <td>Total: 428 KLD (For Hospital = 162 KLD , For Lab = 50 KLD &amp; Cooling Tower = 216 KLD)</td> <td>Supply from MC, Chandigarh.</td> </tr> <tr> <td>Flushing: 96 KLD (For Hospital)</td> <td>Reuse after treatment</td> </tr> <tr> <td>Cooling Purposes: 114 KLD</td> <td>Reuse after treatment</td> </tr> <tr> <td>Green Area: 19 KLD</td> <td>Reuse after treatment</td> </tr> </tbody> </table>		Break up of Water Requirement	Source	Total: 428 KLD (For Hospital = 162 KLD , For Lab = 50 KLD & Cooling Tower = 216 KLD)	Supply from MC, Chandigarh.	Flushing: 96 KLD (For Hospital)	Reuse after treatment	Cooling Purposes: 114 KLD	Reuse after treatment	Green Area: 19 KLD	Reuse after treatment																	
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8.	Disposal Arrangement of Waste Water	<p>a) Waste water quantity of 234 KLD is proposed to be treated in Sewage Treatment Plant of 375 KLD capacity (designed on MBR technology).</p> <p>b) Reuse of treated waste water from the STP shall be done as mentioned at Sr. no.7 and for remaining, storage tank of adequate capacity shall be provided for the storage of treated wastewater.</p> <p>c) Only, the surplus treated wastewater, if any, shall be discharged into sewer after maintaining the proper record.</p> <p>c) From Lab &amp; OT= 50 KLD to be treated in ETP of capacity 60 KLD and treated waste water as per prescribed standards by CPCCC shall be discharged into sewer after maintaining proper record.</p>
9.	Different Type of Solid Waste Generation and its Disposal	<p>a) Total Solid Waste generation will be @ 1000 kg/day. Separate collection as biodegradable and Non- biodegradable waste as per the SWM Rules, 2016.</p> <p>b) Biodegradable waste will be composted through Mechanical Composter.</p> <p>c) The Non-biodegradable waste &amp; Recyclable waste will be sold to authorized venders. Inert waste will be sent to Municipal dumping site.</p> <p>d) Bio-Medical waste @ 150 kg/day shall be handed over to Common Bio-medical Waste Treatment Facility authorized by CPCCC after segregation.</p> <p>e) Hazardous waste including ETP sludge shall be disposed off as per Hazardous Waste (Management, Handling &amp; Transboundary Movement) Rules, 2016.</p> <p>f) E-waste shall be disposed off as E-waste (Management &amp; Handling) Rules, 2016.</p> <p>g) Battery waste generated from Inverters and UPS shall be treated as per the Batteries (Management &amp; Handling) Rules, (Amendment), 2010.</p>
10.	Energy Requirements and Energy Saving Measures	<p>a) Power load is 2834 KW (66 KV Substation already existing within PGI premises).</p> <p>b) 3 Nos. silent DG Sets (3 X 1010 KVA) as stand-by arrangement.</p>

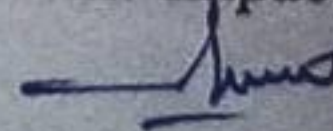
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		<p>Energy Saving Measures</p> <p>1) LEDs are proposed in place of CFLs-126.2 KW of load reduction.</p> <p>2) Solar street lighting/solar water heating.</p> <p>3) Solar Panels of capacity 210 KWp (of around 10% of the connected load). 308,086 KWh/year of energy to be generated with 210 KWp of Solar Panels.</p> <p>4) Using bricks made of fly ash, waste industrial material, which acts as insulating material for external walls.</p>				
9.	Parking Details (in ECS)	<p>294 Cars</p> <p>Basement 1- 106 ECS</p> <p>Basement 2 - 140 ECS</p> <p>Surface Parking- 48 ECS</p>				
10.	Cutting of trees	<p>Total no. of 72 (59+13) trees will be removed + 11 trees will be transplanted as per approval from Forest Department, Chandigarh. 5 trees will be planted by PGIMER authorities for every one tree cut as part of compensatory plantation. However, 769 trees will be planted as part of compensatory plantation plan after taking expert advice from Forest Department, Chandigarh, Punjab Agricultural University, Ludhiana and District Extension Specialist, Horticulture, FASC, Chandigarh.</p>				
11.	Environment Management Plan along with Budgetary break up phase wise and responsibility to implement	<p>Environment Management Cell in Construction Phase as well as in Operation Phase shall be responsible for implementation of EMP.</p> <p>The budgetary break of EMP is as under:</p> <table border="1"> <thead> <tr> <th>Capital Cost in lacs</th> <th>Recurring Cost in lacs per year</th> </tr> </thead> <tbody> <tr> <td>347 lacs</td> <td>21.5 lacs per year</td> </tr> </tbody> </table>	Capital Cost in lacs	Recurring Cost in lacs per year	347 lacs	21.5 lacs per year
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The project proposal was considered by the State Expert Appraisal Committee (SEAC) in its 43rd & 44th meetings held on 12.01.2021 & 02.02.2021 respectively. As per the procedure and on the basis of documents enclosed with the application form viz., Form-1, Form-1A, Conceptual Plan & the additional clarification furnished in response to the observations of the SEAC, Chandigarh, in writing and verbally during the presentations, the committee after detailed discussion unanimously decided to forward the proposed project to the State Environment Impact Assessment Authority

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(SEIAA), Chandigarh, with the recommendation to grant environmental clearance to the project proponent under EIA Notification dated 2006, subject to the following conditions:-

**Part A. General Conditions:**

- i. That the environmental safeguards contained in the application of the promoter should be implemented in letter and spirit.
- ii. That the project proponent, within seven days from the day of issue of the environmental clearance, should advertise in at least two local newspapers widely circulated in the region (one of which shall be in vernacular language) informing that the project has been accorded environmental clearance and copies of clearance letters are available with the SEIAA, CPCC and Regional Office of MoEF&CC, North and may also be seen at the website of the project proponent.
- iii. The project proponent will formulate well laid 'Environment Policy duly approved by the Board of Directors in compliance to the MoEF circular J-11013/41/2006-1A,II(I) Part, dated 19 May, 2011 within three months as undertaken by the project proponent in its reply to the query raised by the committee.
- iv. The project proponent shall also submit half yearly compliance reports in respect of the stipulated prior environmental clearance terms & conditions including results of monitored data in respect of water, air & noise (both in hard & soft copies) to the respective Regional office of MoEF&CC, SEIAA and CPCC, Chandigarh on 1st June and 1st December of each calendar year. A display board shall be provided at the gate of the project site showing date of grant of consent and its validity and key pollution related parameters for the information of the general public as per the guidelines given by CPCC.
- v. That the project proponent shall obtain approval for fire safety, structural safety of the building(s), as per National Building Code.
- vi. That the officials from the Regional Office of MoEF&CC, Chandigarh & CPCC, Chandigarh, who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents submitted to SEIAA/SEAC should be forwarded to the Regional Office of MoEF&CC, North.
- vii. That in the case of any change(s) in the scope of the project, the project would require a fresh appraisal by SEAC, U.T. Chandigarh.
- viii. That the SEIAA reserves the right to modify/add additional environmental safeguards subsequently, if found necessary, Environmental Clearance granted will be revoked if it is found that false information has been given for approval of the project.
- ix. That the first aid facility will be provided at the project site during construction phase of the project.
- x. That these stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution), Act 1974, the Air (Prevention and Control of Pollution), Act 1981, the Environment (Protection) Act, 1986 and the Public Liability (Insurance) Act, 1991. The conditions imposed under the Acts as above or as imposed in the Environmental Clearance shall apply.

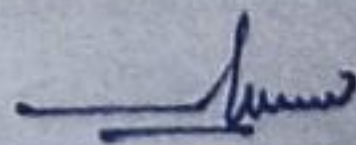
- xi. That the project proponent will make constant efforts to improve upon its environmental performance and may go for voluntary accreditations as ISO-14000/Green rating systems.

**Part B: Specific Conditions:**

**I. Construction Phase:**

- i. That the environmental clearance is granted for the total plot area of 2.68 acres (10,862 Sq.m) and the total built up area of the project will be 43113.37 Sq.m and any additional construction above this shall require revised environmental clearance as an expansion project.
- ii. That the project proponent shall obtain all necessary clearance/permissions 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 and their amendments from time to time.
- iii. That the unit shall start construction only after obtaining consent to establish from Chandigarh Pollution Control Committee (CPCC) under Water (Prevention and Control of Pollution), Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.
- iv. The project proponent shall adhere to the commitments made in the Environment Management Plan for the construction phase.
- v. Construction of the STP, solid waste, e-waste, hazardous waste, storage facilities, DG Sets, Utilities etc, earmarked by the project proponent on the layout plan, should be made in the earmarked area only. In any case, the position/location of these utilities should not be changed later-on.
- vi. The environmental safeguards contained in the application of the promoter / mentioned during the presentation before State Expert Appraisal Committee should be implemented in letter and spirit.
- vii. That all the top soil excavated during construction activities should be stored for use in horticulture / landscape developments within the project site. The excavated soil except the top soil shall be used for top cover at dumping ground. The disposal of muck including excavated material during construction phase should not create any adverse effects on the neighboring communities and be disposed-off taking the necessary precautions for general safety and health aspects of people.
- viii. The project proponent will comply with the provisions of Construction & Demolition Waste Rules, 2016. Dust, smoke & debris prevention measures such as wheel washing, screens, barricading and debris chute shall be installed at the site during construction including plastic / tarpaulin sheet covers for trucks bringing in sand & material at the site.
- ix. That the water demand during construction shall be reduced by use of premixed concrete, curing agents and by adopting other best practices.
- x. The project proponent shall use only tertiary treated water during construction phase and no fresh water for this purpose will be used. A proper record in this regard should be maintained and available at site.

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- xi. The project proponent shall obtain permission from the CGWA for abstraction of groundwater & digging of borewell (s) and shall not abstract any groundwater without prior written permission of the CGWA, even if any borewell (s) exist at site.
- xii. Following points needs to be addressed in respect of 'Rainwater Harvesting and Artificial Recharge' and should be presented before SEIAA, Chandigarh:
  - a. Depth to ground water level of the area should be included so that depth of recharge well is decided accordingly.
  - b. In report intake capacity of recharge well has been considered on the higher side i.e. 10 lps. Slug test of tube well of nearby area may be carried out to deduce the intake capacity of recharge well.
  - c. Revised design of artificial recharge structure may be incorporated with readable dimensions (length, width and depth) in meters.
  - d. Run-off from areas other than roof top such as green areas and roads/pavement etc. may be discarded to avoid contamination of ground water.
  - e. Rainwater harvesting plan shall be designed where the recharging wells for roof top run-off shall have provision of adequate treatment for removing suspended matter etc. before recharging as per the CGWA guidelines.
- xiii. That the fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
- xiv.
  - a) Adequate steps shall be taken to conserve energy by limiting the use of glass, provision of proper thermal insulation and taking measures as prescribed under the Energy Conservation Building Code and National Building Code, 2005 on Energy Conservation.
  - b) Solar power plant shall be installed for utilizing maximum solar energy. Also, solar lights shall be provided as proposed for illumination of common areas instead of CFL lights or any other conventional light/bulbs.
- xv. That the design of the buildings and their execution shall be done as per the guidelines of CPWD for placing minimum three stars GRIHA rating in all public buildings, as adopted by the Chandigarh Administration.
- xvi. That all required sanitary and hygienic measures including portable toilets/temporary toilets, first aid facility etc. for labour should be in place before starting construction activities and to be maintained throughout the construction phase.
- xvii. That the adequate drinking water facility should be provided for construction workers at the site. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.
- xviii. The project proponent shall provide electromagnetic flow meter at the outlet of the water supply, outlet of the STP and any pipeline to be used for re-using the treated wastewater back into the system for flushing and for horticulture purpose/green etc.
- xix. That the Diesel power generator sets used during construction phase should be equipped with acoustic enclosures to prevent noise and should conform to rules made under Environment (Protection) Act, 1986, prescribed for air and noise emission standards.
- xx. That the ambient noise levels should conform to standards both during day and night at the site as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution

loads on the ambient air and noise quality should be closely monitored during construction phase.

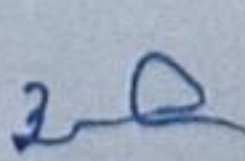
- xxi. Fly ash based construction material should be used in the construction as per the provisions of Fly Ash Notification of September, 1999 and as amended on August, 2003 .
- xxii. That the vehicles hired for bringing construction material at site should be in good condition and should have valid "Pollution Under Check" (PUC) certificate and to conform to applicable air and noise emission standards and should be operated only during non-peak hours.
- xxiii. That the construction spoils including bituminous material and other hazardous materials must not be allowed to contaminate water courses and the dump sites for such material must be secured so that they should not leach into the ground water/soil.
- xxiv. That any hazardous waste generated during construction phase should be disposed of as per applicable rules & norms with necessary approvals from Chandigarh Pollution Control Committee, U.T. Chandigarh.
- xxv. That the diesel required for operating DG set shall be stored in underground tanks and if required, clearance from the chief controller of explosives shall be taken.
- xxvi. That the approval of the competent authority shall be obtained for structural safety of the building due to earthquake, adequacy of fire- fighting equipment etc. as per National Building Code including protection measures from lightening etc.

## II. Operational Phase:

- i. That the unit shall operate after obtaining consent to operate from Chandigarh Pollution Control Committee under the provisions of Water (Prevention and Control of Pollution) Act, 1974; Air (Prevention and Control of Pollution) Act, 1981 and authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- ii. That the ambient noise levels should be controlled to ensure that it does not exceed the prescribed standards both within and at the boundary of the proposed building premises.
- iii. The total water requirement for the hospital & institute will be 657 KL/day, out of which 428 KL /day shall be met through MC, Chandigarh and remaining 229 KL/day through recycling of treated wastewater.
- iv. a) The total wastewater generation from the hospital (includes waste water from laundry, kitchen & domestic use) will be 234 KL/day, which will be treated in a STP (MBR technology) of capacity 375 KL/day to be installed within the project premises. As proposed, reuse of treated wastewater and discharge of surplus treated wastewater shall be as below:

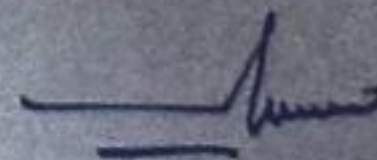
Reuse for flushing (KLD)	For gardening (KLD)	For cooling purposes (KLD)
96	19	114

- b) Storage tank of adequate capacity shall be provided for the storage of treated wastewater and all efforts shall be made to supply the same for construction purposes. Only, the surplus treated wastewater shall be discharged into sewer after maintaining the proper record.

  
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- c) The waste water generated from the Lab & OT will be 50 KLD which will be treated in ETP of capacity 60 KLD and the treated waste water @45KLD will be discharged into sewer.
- d) Storage tank of adequate capacity shall be provided for the storage of treated wastewater and all efforts shall be made to supply the same for construction purposes. Only, the surplus treated wastewater shall be discharged into sewer after maintaining the proper record.
- v. That the installation of Dual Plumbing System is mandatory for the project, so as to make use of treated water for flushing/gardening/cleaning etc.
- vi. A proper record regarding water consumption, its reuse and disposal shall be maintained on daily basis and shall maintain a record of readings of each such meter on daily basis.
- vii. Rainwater harvesting/recharging systems shall be operated and maintained properly as per CGWA guidelines. That the ground water levels and its quality should be monitored regularly and proper records should be maintained.
- viii. Bio-Medical waste to be generated in the hospital shall be handled and managed as per the provisions of Bio-Medical waste (Management & Handling) Rules, 2016.
- ix. 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 equipments.
- x. A report on the energy conservation measures conforming to energy conservation norms should be prepared incorporating details about machinery of air conditioning, lifts, lighting, building materials, R & U Factors etc. and submitted to the respective Regional office of MoEF&CC and CPCC, Chandigarh.
- xi. That only 3 DG sets (1010 KVA each) as per the proposal shall be installed which shall be provided with acoustic enclosures, stacks and sampling platforms as required under Air (Prevention and Control of Pollution) Act, 1981, Environment (Protection) Act, 1986 and laid down by Central Pollution Control Board. The stack emissions from the DG sets shall be monitored once every six months from a NABL accredited/ MoEF&CC approved laboratory. Regular maintenance and service of the DG sets shall be undertaken to ensure that there is no substantial increase in emissions in subsequent monitoring. DG sets shall be used only as standby in case of failure of electricity.
- xii. That the Solar power shall be used for lighting in the apartments to reduce the power load. Energy conservation measures like installation of LEDs & others as per the proposal submitted for the lighting should be the integral part of the project design. The installation of Solar Photo-voltaic (SPV) of capacity 210 KWp shall be done as per National Building Code - 2016 guidelines, within the project area for the generation of solar power.
- xiii. That the solid waste shall be segregated on site into recyclable and biodegradable components and disposed off as per the conditions imposed by CPCC. The hazardous wastes including e-waste (if generated) shall also be disposed as per the conditions imposed by CPCC and appropriate records shall be maintained. An audit of the waste generation shall be undertaken over a period of time (two years) and attempts shall be made to minimize the waste generation.

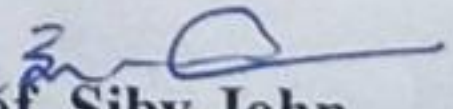


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- xiv. That the weep holes shall be provided in the compound walls to ensure there is no obstruction to natural drainage of rainwater in the catchment area during the monsoon period.
- xv. That the greenbelt and landscaping as per the proposed plan shall be provided and its land use shall not be altered. The DG set area should have thick belt of ever green trees with at least three rows of trees forming three tier canopies to mitigate environment hazards. The other areas like parks, vehicle parking, road sides etc., may be planted with evergreen or deciduous fruit trees as per requirement of the site. A report on the status of plantation, including number and variety of trees shall be submitted to monitoring authority every six months.
- xvi. The facilities provided for collection, segregation, handling, on site storage & processing of solid waste such as chute system for multi-storey buildings, wet & dry bins, collection centre & 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. Organic waste shall be composted by mechanical composter of size 500 Kg and the inert solid waste shall be sent to the concerned collection centre of integrated municipal solid waste management facility of the area. A proper record in this regard shall be maintained.
- xvii. Environmental Management Cell shall be formed during operation phase which will supervise and monitor the environment related aspects of the project.
- xviii. The project proponent shall not use any chemical fertilizer /pesticides /insecticides and shall use only Herbal pesticides/insecticides and organic manure in the green area.
- xix. That a report on the energy conservation measures should be prepared incorporating details with regard to compliance with ECBC guidelines and or as provided in the documents submitted for environmental clearance and shall be submitted to the monitoring authority in six months' time. An energy audit shall be conducted to verify the energy consumption and to suggest measures to reduce it further.

The meeting ended with the vote of thanks to the chair.

  
**Dr. Harish Sharma**  
Secretary

  
**Prof. Siby John**  
Chairman