

**STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT
AUTHORITY (SEIAA)-DELHI**

OFFICE OF DELHI POLLUTION CONTROL COMMITTEE
5th FLOOR, ISBT BUILDING, KASHMERE GATE, DELHI-110006

F.No. DPCC/SEIAA-IV/C-436/DL/2022/ 5434-5447

Dated: 31/01/2023

Environmental Clearance No.: SEIAA-D/ C-436/ EC-372/2022.

To,

**Sir Ganga Ram Trust Society,
M/s Sir Ganga Ram Hospital,
Purvi Marg, Rajendra Nagar New Delhi-110060
Email: sirgangaram123@gmail.com**

Sub:Amendment in Environment Clearance of "Sir Ganga Ram Hospital" at Sir Ganga Ram Marg, Rajinder Nagar, New Delhi 110060.

This has reference to your Proposal no. SIA/DL/MIS/294194/2022 submitted on 29.11.2022 on PARIVESH Portal for seeking Amendment in Environmental Clearance (EC) under Environmental Impact Assessment (EIA) Notification dated 14.09.2006 amended as on date for the **Amendment in Environment Clearance of "Sir Ganga Ram Hospital" at Sir Ganga Ram Marg, Rajinder Nagar, New Delhi-110060** and subsequent presentation given before the State Level Expert Appraisal Committee (SEAC) for seeking amendment in Environmental Clearance for subject cited project as required under the EIA Notification, 2006.

The Proposal is for grant of Amendment in Environment Clearance of "Sir Ganga Ram Hospital" at Sir Ganga Ram Marg, Rajinder Nagar, New Delhi-110060.

Environmental clearance was granted to the project vide letter no. 21-103/2018-IA.III dated 27.12.2018 for plot area 48422.35 sqm & built-up area 108188.079 sqm and again amendment in aforesaid Environmental Clearance was granted for specific condition para 5 No (xxxv) from MoEF&CC vide letter no. 21-103/2018-IA-III dated 07.04.2020.

Now, Project Proponent applied for Amendment in EC for the proposed project with same plot area i.e. 48422.15 sqm and decrease in built-up area from 1,08,188.079 sqm to 1,03,327.501 sqm.

The project was appraised by SEAC in its 121st Meeting held on 22.12.2022, based on the information furnished, documents shown & submitted, presentation made by the project proponent and SEAC recommended the case to SEIAA for grant of amendment of Environmental Clearance issued by MoEF&CC vide File no. 21-103/2018-IA-III on 27.12.2018.

The State Level Environment Impact Assessment Authority, Delhi (SEIAA-Delhi) in its 68th Meeting held on 13.01.2023 accorded amendment in Environmental Clearance (EC) to the above said project to the effect that plot area of the project will remain same i.e 48,422.35 sqm and total built up area shall be 1,03,327.501 sqm (MLCP - 42570.426 sqm, FAR to be Achieved- 60,757.075 sqm) and total solid waste generation will be 715 Kg/day (Bio Degradable 350 kg/day, Recyclable- 365 Kg/day) and Bio Medical Waste generation will be 1097 Kg/day and used oil of 132 L/month shall be collected in leak proof containers at isolated place and then it will be given to approved vendor of CPCB and Maximum height will be 45 m and parking provisions of 910 ECS (with the provisioning of the 30% of parking for the e-vehicles) shall be provided and efforts be made to achieve 10 % of power load through solar energy rest of the terms and conditions will remain same as per earlier EC dated 27.12.2018 and amendment of EC dated 07.04.2020.

The Amendment in Environmental Clearance accorded to M/s Sir Ganga Ram Hospital vide File no. 21-103/2018-IA.III on 27.12.2018, is hereby accorded by SEIAA- Delhi for 'Modernization of Sir Ganga Ram Hospital' at Sir Ganga Ram Hospital Marg, Rajinder Nagar, New Delhi.

Rest of the condition of Environment Clearance accorded by MoEF&CC to M/s Sir Ganga Ram Hospital vide File no. 21-103/2018-IA.III on 27.12.2018 and amendment of EC on 07.04.2020 by MoEF&CC, GoI will remain unchanged.

It will be the responsibility of the project proponent to obtain prior clearances/approval & ensure compliances under all other relevant Acts/ Rules/ Regulations/ guidelines/ instructions/Court Orders/Tribunal Orders as applicable to this project before starting of the project.


(K.S. Jayachandran)
Member Secretary, SEIAA- Delhi

Copy to:

1. Sh. Sarvagya Kumar Srivastava (Chairman, SEIAA), 370, Asiad Village Complex, Sirifort, New Delhi-110049
2. The Chairman (DPCC), Department of Environment, Govt. of NCT Delhi, Secretariat Building, 6th Level, C-Wing, I.P. Estate, New Delhi-02.
3. The Principal Secretary (Environment), Department of Environment, Govt. of NCT Delhi, Secretariat Building, 6th Level, C-Wing, I.P. Estate, New Delhi-02.
4. The Vice Chairman, DDA, Vikas Sadan, INA, New Delhi.
5. The Commissioner (Planning), DDA, Vikas Minar, IP Estate, New Delhi-110002.
6. The Chief Executive Officer (CEO), Delhi Jal Board, Varunalaya, Jhandewalan, New Delhi.
7. The Commissioner, Delhi Municipal Corporation, Dr. S.P.M. Civic Centre, JLN Marg, New Delhi-110002 .

8. The Deputy Commissioner of Police, New Delhi District, Sansad Marg, Police Colony, Connaught Place, New Delhi, Delhi 110001.
9. The Director, Fire Services, 101, Kashmere Market, Connaught Place, New Delhi, Delhi 110001
10. Deputy Director General of Forests (C), Ministry of Env., Forest and Climate Change, Integrated Regional Office, Jaipur , A-209&218, Aranya Bhawan, Mahatma Gandhi Road, Jhalana Institutional Area, Jaipur – 304002, Rajasthan
11. The Director, Impact Assessment Division, Monitoring Cell, Ministry of Environment, Forests & Climate Change, Govt. of India, Indira Paryavaran Bhawan, Jorbagh, New Delhi-110003.
12. The Member Secretary, Central Ground Water Authority, 18/11, Jamnagar House, Mansingh Road, New Delhi-110011
13. Member Secretary, Delhi Pollution Control Committee, 5th Floor, ISBT Building Kashmere Gate, Delhi-110006



(K.S. Jayachandran)

Member Secretary, SEIAA- Delhi

F.No. 21-103/2018-IA-III
Government of India
Ministry of Environment, Forest and Climate Change
(IA.III Section)

Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi - 3

Date: 7th April, 2020

To,
M/s SIR GANGA RAM HOSPITAL
Sir Ganga Ram Marg, Rajinder Nagar,
New Delhi -110060
E Mail: sirgangaram_hospital@yahoo.com

Subject: 'Modernization of Sir Ganga Ram Hospital' at Sir Ganga Ram Hospital Marg, Rajinder Nagar, New Delhi by M/s Sir Ganga Ram Hospital - Amendment in Environmental Clearance - reg.

Sir,

This is in reference to your letter No. SGRH/Project/Environment Clearance/2019/3790/19/6 dated 06.12.2019 on the above mentioned subject submitted to this Ministry for seeking amendment in the Specific condition Para 5. No. (xxxv) of the Environmental Clearance letter accorded by MoEFCC vide letter F.No. 21-103/2018-IA-III dated 27.12.2018.

2. The proposal was discussed by the EAC (infra-2) in its meeting held during 28-29 January, 2020. During discussion the project proponent informed the EAC that at present the DG sets of capacity 2 x 1875 kVA, 2 x 2000 kVA, 3 x 625 kVA & 3 x 750 kVA has already been installed at the site. M/s Cummins India Ltd. have informed that the diesel based DG should be used where grid is available and gas gensets are installed where continuous run is required to act as a main source of power. Due to space constraints in the hospital, it is not possible to install gas based gensets which required 4 to 5 times space of DG sets. The hospital requires running of genset rarely because power supply is available from two sources on 11 kV line. This is evident from the record of running of existing DG sets for an average of 15 minutes per day during last two years. It may be seen that 4 nos. DG sets had run for total of 731 hours in two years to meet the requirement due to both load beyond the maximum sanctioned load of 4 MVA on 11 KV line and due to power shut down. After commissioning of 33 kV sub-stations, which is under construction in the complex, there will hardly be any running of DG set required as full load will be available through grid because of no restriction. This will also be available through two sources being hospital. The sanctioned load is 10 MVA to meet entire demand of 9 MVA as mentioned in proposal. Also there will be hardly any power cut/tripping on 33 KV line, therefore no standby power unit is required but considering the hospital, where emergency /critical services involving life threatening situation, standby power back is a must. The start-up time of Gas based Gensets are more viz-a-viz start up time required for Diesel based Gensets.

3. The EAC deliberated upon the proposal and opined that due to very less use and for a short span, it will not be feasible for the project proponent to install Gas based DG sets. The EAC recommended amending the Specific condition no. (xxxv) of the EC letter F.No. 21-103/2018-IA-III dated 27.12.2018. Based on the

→ Head Projects - original
→ Head Maintenance
cc-to- legal cell
17/01/2020

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Mr. Singh
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recommendation of the EAC, the Ministry hereby amend the Specific condition Para 5. No. (xxxv) of the EC letter issued vide F.No. 21-103/2018-IA-III dated 27.12.2018 as follows:

"The project proponent shall use diesel power generating sets for standby power systems. Diesel power generating sets proposed as source of backup power should be of enclosed type and 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 and low sulphur diesel shall be used. The location of the DG sets may be decided in consultation with Delhi Pollution Control Committee".

4. All the other terms and conditions stipulated in the EC letter issued vide F.No. 21-103/2018-IA-III dated 27.12.2018 shall remain unchanged.


(Dr. Vinod K. Singh)
Scientist E

Copy to:

- 1) The Secretary, Department of Environment, Government of Delhi, New Delhi.
- 2) The Addl. Principal Chief Conservator of Forests (C), Ministry of Environment, Forests and Climate Change, Kendriya Bhavan, 5th Floor, Sector-H, Aliganj, Lucknow - 226024.
- 3) The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
- 4) The Member Secretary, Delhi Pollution Control Committee, Department of Environment, Government of N.C.T. Delhi, 4th Floor, ISBT Building, Kashmere Gate, Delhi.
- 5) Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
- 6) Guard File/ Record File/ Notice Board.
- 7) MoEFCC website.


(Dr. Vinod K. Singh)
Scientist E

F.No.21-103/2018-IA-III
Government of India
Ministry of Environment, Forest and Climate Change
(IA.III Section)

Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi - 3

Date: 27th December, 2018

To,

M/s SIR GANGA RAM HOSPITAL
Sir Ganga Ram Marg, Rajinder Nagar,
New Delhi -110060
E Mail: sirgangaram_hospital@yahoo.com

Subject: 'Modernization of Sir Ganga Ram Hospital' at Sir Ganga Ram Hospital Marg, Rajinder Nagar, New Delhi by M/s Sir Ganga Ram Hospital - Environmental Clearance - reg.

Sir,

This has reference to your online proposal No. IA/DL/NCP/75246/2018 dated 27th September, 2018, submitted to this Ministry for grant of Environmental Clearance (EC) in terms of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act, 1986.

2. The proposal for grant of environmental clearance to the project 'Modernization of Sir Ganga Ram Hospital' at Sir Ganga Ram Hospital Marg, Rajinder Nagar, New Delhi by M/s Sir Ganga Ram Hospital, was considered by the Expert Appraisal Committee (Infra-2) in its 35th meeting held on 29-31 October, 2018. The details of the project, as per the documents submitted by the project proponent, and also as informed during the above meeting are as under:-

- (i) The project will be located at Latitude 28°38'18.88"N and Longitude 77°11'21.34"E. It is modernization in existing Environmental Clearance due to change in planning hence increase in Built-up area. Environmental Clearance has already been obtained from SEIAA-Delhi vide File No. DPCC/SEIAA-SEAC/130/11/252-256 dated 13-08-2012 for Plot area of 48,422.35 sqm and built-up area of 1,07,325.327 sqm for development of hospital.
- (ii) The proposed project is "Modernization of Sir Ganga Ram Hospital" at Sir Ganga Ram Hospital Marg, Rajinder Nagar, New Delhi-11006. The project shall be developed by Sir Ganga Ram Hospital. The total plot area of the project is 48,422.35 sqm and total built-up area will be 1,08,188.076 sqm. Hence, it falls under category 'B' under Schedule 8 (a) of the EIA notification, 2006.
- (iii) At present, Hospital is constructed and operational. Construction on built up area 82,282.30 sqm has already been done. Now due to change in planning, total built up area after modernization will be 1,08,188.076 sqm.
- (iv) During the construction of the proposed project, the water shall be sourced through Delhi Jal Board/Bore wells (Existing and same will be followed in future) and the same will be maintained without any adverse impact on the environment. Temporary sanitary toilets shall be provided during peak labour force.

- (v) The total water requirement after modernization will be 1090 KLD (Existing water requirement is 710 KLD and proposed water requirement is 380 KLD). The source of water will be Delhi Jal Board/Bore wells. The total waste water generation will be 720 KLD from STP and 10 KLD from ETP. The effluent 10 KLD generate from the laboratory will be treated in ETP of 30 KLD and then retreated in STP of capacity of 1000 KLD. The waste water shall be treated through Sewage Treatment Plant (STP) of capacity 1000 KLD and Effluent Treatment Plant (ETP) of capacity 30 KLD. 485 KLD treated water will be reused in flushing, gardening, & Chiller Cooling and 199 KLD treated water will be used MCD Park.
- (vi) Solid waste generation from the project after modernization will be 1214 Kg/day of Municipal solid waste and out of which the biodegradable waste (850 Kg/ day) shall be treated in organic waste converter and converted to manure, recyclable waste generated (364 Kg/day) and Bio-medical waste (265 Kg/day) will be handed over to authorized recycler and Used Oil of 96 lit/month shall be collected in leak proof containers at isolated place and then it will be given to approved vender of CPCB. E- Waste of 12 kg/ month will be collected and given to approved recycler of SPCB.
- (vii) The total power requirement will be 9 MVA (Existing power requirement is 5.5 MVA and proposed 3.5 MVA). D.G. Set of 2 x 2250 KVA, 2 x 2000 KVA, 2 x 1875 KVA, & 3 x 625 KVA shall be installed (Existing nos. DG Sets are 2x 2000 KVA, 2x1875 KVA, 3x 750 KVA and 3x 625 KVA installed and proposed nos. of DG Sets are 2x2250 KVA) and kept acoustically treated room & installed with anti-vibration pads and will be used during power failure only. Hence, to avoid the emissions, stack height of 6 m above roof level for each D.G. sets has been provided for existing DG sets and same shall be done for proposed DG sets to reduce the air emissions, meeting all the norms prescribed by CPCB.
- (viii) Rainwater of buildings will be collected in 15 No. of RWH pits (Existing 12 nos. of RWH pits are present and 3 nos. of RWH are proposed) for recharging Ground water.
- (ix) Adequate parking provision shall be provided in the project of 1076 ECS as Basement parking, Multi-level parking & surface parking.
- (x) Eco-sensitive area lies within 10 km radius: Okhla Bird Sanctuary 12.87 Km SE.
- (xi) There is no court case pending against the project.
- (xii) Investment/Cost of the project is Rs. 100 Crores.
- (xiii) Employment potential: Labourers during construction phase 150 nos. Total population of the complex after modernization will be 7592 nos. (in patient - 932 nos., OPD - 2000 nos., working staff - 250 nos., Doctor staff- 710, supporting staff 2300 nos. & visitors-1400 nos.). Existing population is 5535 persons.
- (xiv) Benefits of the project: The Hospital will boost some of the best medical care infrastructure in the country which is currently available in major hospitals in India AIIMS, New Delhi, R&R Hospital of the Army in New Delhi. The hospital will have its own dedicated Service Apartments especially for old age patients. The hospital will provide world class medical facilities to patients. It will also provide 24x7 Ambulance facility. The Hospital will provide employment to labourers during construction phase and employment to personnel working in

the hospital during operation phase. The Hospital will also enhance the infrastructure facility of the area.

3. The project/activity is covered under item 8(a) 'Building and Construction Projects' of the Schedule to the EIA Notification, 2006 and its amendments, and requires appraisal at State level. However, due to non-existence of SEIAA/SEAC in Delhi, the proposal is appraised at Central level by sectoral EAC.
4. The proposal was considered by EAC (Infra-2) in its 35th meeting held on 29-31 October, 2018. The EAC deliberated on the information submitted by the Project Proponent including certified compliance report letter No. 4-1076/12/254 dated 02.05.2018 (inspection done on 13.08.2018) issued by the MoEF&CC's Regional Office (CR), Lucknow and noted that most of the conditions of the earlier EC were complied.
5. The EAC, after detailed deliberation on the proposal, recommended for grant of Environmental Clearance to the project. As per recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the project 'Modernization of Sir Ganga Ram Hospital' at Sir Ganga Ram Hospital Marg, Rajinder Nagar, New Delhi by M/s Sir Ganga Ram Hospital, under the provisions of the EIA Notification, 2006 and amendments/circulars issued thereon, and subject to the specific and general conditions as under:-

PART A – SPECIFIC CONDITIONS:

- (i) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (ii) The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc as per National Building Code including protection measures from lightning etc.
- (iii) 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.

Topography and natural Drainage

- (iv) The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage 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. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.

Water requirement, Conservation, rain water Harvesting, and Ground Water Recharge

- (v) As proposed, fresh water requirement from DJB water shall not exceed 300 KLD with prior permission.
- (vi) 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.

- (vii) 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&CC along with six monthly Monitoring reports.
- (viii) 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.
- (ix) 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.
- (x) 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.
- (xi) 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.
- (xii) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- (xiii) The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed, 200 KL Rain Water Tank & 15 nos. of rain water harvesting recharge pits shall be provided for rain water harvesting after filtration as per CGWB guidelines.
- (xiv) As proposed, no ground water shall be used during construction phase of the project. During operational phase ground water from existing bore wells shall be used with prior permission from CGWA.
- (xv) 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.

Solid Waste Management

- (xvi) The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- (xvii) Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- (xviii) 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. Wet garbage shall be composted in Organic

Waste Converter. As proposed, 100 sqm area shall be provided for solid waste management within the premises which will include area for segregation, composting. The inert waste from project will be sent to dumping site.

- (xix) 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.
- (xx) 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.
- (xxi) A management plan for handling and disposal of biomedical wastes to the satisfaction of the State Pollution Control Board shall be drawn up in conformance to the Biomedical Waste Management Rules, 2016.
- (xxii) Laboratory wastes shall be managed in accordance to the BMW Rules, 2016 and the atomic Energy Commission regulations as applicable.

Sewage Treatment Plant

- (xxiii) Sewage shall be treated in the STP with tertiary treatment i.e. Ultra Filtration. The treated effluent from STP shall be recycled/re-used for flushing, horticulture and HVAC makeup. No treated water shall be discharged to municipal drain
- (xxiv) No sewage or untreated effluent water would be discharged through storm water drains.
- (xxv) 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. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- (xxvi) Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.
- (xxvii) The project proponents would devise a monitoring plan to the satisfaction of the State Pollution Control Board so as to continuously monitor the treated waste water being used for flushing in terms of faecal coliforms and other pathogenic bacteria.
- (xxviii) The project proponents would commission a third party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.

Energy

- (xxix) 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. Outdoor and common area lighting shall be LED. 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 incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
- (xxx) 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. Used CFLs, TFL and LED shall be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
- (xxxii) 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. Follow super ECBC requirement of ECBC 2017 and provide compliance report.
- (xxxiii) 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. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.
- (xxxiii) 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. 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.
- (xxxiv) A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project shall be obtained.
- (xxxv) The project proponents will use gas based power generating standby systems.

Air Quality and Noise

- (xxxvi) Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as 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, murrum and other construction materials prone to causing dust pollution at the site as well

as taking out debris from the site. Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution. Wet jet shall be provided for grinding and stone cutting. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.

- (xxxvii) 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.
- (xxxviii) 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. 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.
- (xxxix) The gaseous emissions from generator set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the generator sets to mitigate the noise pollution. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- (xl) For indoor air quality the ventilation provisions as per National Building Code of India.
- (xli) Ambient noise levels shall conform to silence zone standard 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.

Green Cover

- (i) As proposed, no tree will be cut. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed 16,165.942 sqm area shall be provided for green area development.

Top Soil preservation and Reuse

- (xlii) 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 in designated areas and reapplied during plantation of the proposed vegetation on site.

Transport

- (xliii) 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.

- Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - Traffic calming measures
 - Proper design of entry and exit points.
 - Parking norms as per local regulation
- (xlv) 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 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./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
- (xlv) As proposed, adequate provision will be made for car/vehicle parking at the proposed project site. There shall also be adequate parking provisions for visitors so as not to disturb the traffic and allow smooth movement at the site.
- (xlvi) 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 be operated only during non-peak hours.

Environment management Plan

- (xlvii) An environmental management plan (EMP) as prepared and submitted along with Form-I&IA shall be implemented to ensure compliance with the environmental conditions specified above. A dedicated Environment Monitoring Cell with defined functions and responsibility shall be put in place to implement the EMP. The environmental cell shall ensure that the environment infrastructure like Sewage Treatment Plant, Landscaping, Rain Water Harvesting, Energy efficiency and conservation, water efficiency and conservation, solid waste management, renewable energy etc. are kept operational and meet the required standards. The environmental cell shall also keep the record of environment monitoring and those related to the environment infrastructure.

Others

- (xlviii) Provisions 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.
- (xlix) A First Aid Room shall be provided in the project both during construction and operations of the project.
- (l) The company shall draw up and implement corporate social Responsibility plan as per the Company's Act of 2013.

- (ii) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and proposed by the project proponent, an amount of Rs. 1 Crore @1% of project Cost shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as providing Employment through self help groups, plantation, Agriculture, Social Initiatives, Road Development, Education and EMP measures. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

PART B - GENERAL CONDITIONS

- (i) A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries Centre and Collector's Office/ Tehsildar's office for 30 days.
- (ii) The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.
- (iii) Officials from the Regional Office of MoEF&CC, Lucknow 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 MoEF&CC shall be forwarded to the APCCF, Regional Office of MoEF&CC, Lucknow.
- (iv) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.
- (v) The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
- (vi) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, the Forest Conservation Act, 1980 and the Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.
- (vii) 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, the Public Liability (Insurance) Act, 1991 and the EIA Notification, 2006.
- (viii) Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- (ix) The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language

informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at <http://www.envfor.nic.in>. The advertisement shall be made within Seven days from the date of receipt of the Clearance letter and a copy of the same shall be forwarded to the Regional Office of this Ministry at Lucknow.

- (x) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.
- (xi) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM_{2.5}, PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- (xii) The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
6. This issues with the approval of the Competent Authority.


(Kushal Vashist)
Director

Copy to:

- 1) The Secretary, Department of Environment, Government of Delhi, New Delhi.
- 2) The Addl. Principal Chief Conservator of Forests (C), Ministry of Environment, Forests and Climate Change, Kendriya Bhavan, 5th Floor, Sector-H, Aliganj, Lucknow - 226024.
- 3) The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
- 4) The Member Secretary, Delhi Pollution Control Committee, Department of Environment, Government of N.C.T. Delhi, 4th Floor, ISBT Building, Kashmere Gate, Delhi.
- 5) Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
- 6) Guard File/ Record File/ Notice Board.
- 7) MoEFCC website.


(Kushal Vashist)
Director