

Date: 7th February, 2020

To,

M/s Directorate General of Health Services

O/o Executive Engineer,

Health Project Division West, Sector-9,

Dwarka, New Delhi - 110075

Email: pmpwddelhihealthwest@gmail.com

Subject: 'Expansion of 1241 Beds Hospital Complex' at Sector-9, Dwarka, Delhi by M/s Directorate General of Health Services - Environmental Clearance - reg.

This has reference to your online proposal No. IA/DL/MIS/96918/2009 dated 27.02.2019, 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 'Expansion of 1241 Beds Hospital Complex' at Sector-9, Dwarka, Delhi by M/s Directorate General of Health Services, was considered by the Expert Appraisal Committee (Infra-2) in its 39th meeting held during 26-28 March, 2019, 42nd meeting held during 10-12 July, 2019 and 47th meeting held during 26-27 December, 2019. 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:-

- The project will be located at Latitude 28°34'47.65"N and Longitude 77°3'44.63"E.
- The proposed project Expansion of 1241 beds Hospital Complex (750 Beds to 1241 Beds) shall be located at Sector-9, Dwarka, New Delhi. The land is allotted by Delhi Development Authority for construction of Hospital.
- Earlier Environmental Clearance was granted vide letter F.No.53/DPCC/SEIAA-SEAC/10/1048-52 dated 30.04.2010 by SEIAA, Delhi for built up area 1,25,335.267 sqm after that modification in Environment Clearance was again granted vide letter F.No. 53/DPCC/SEIAA-SEAC/10/1965-69 dated 30.5.2011 by SEIAA, Delhi due to differences occurring in area details to be sanctioned by DDA for built-up area 1,27,129.147 sqm.
- Total plot area of 60,000 sqm and built-up area of the project will be 1,48,570.06 sqm. No. of beds after expansion will be 1241 and maximum height of the building will be 36 m. After expansion, Total number of blocks will be 4 nos., maximum no. of floors will be G+8 and total no of Beds will be 1241 nos. The maximum height of the building will be 36 m. Details of the project is as follows:

Particulars	Unit	As per Environmental Clearance dated 30.04.2010 modified dated 30.05.2011 (A)	Additional proposed (B)	After Expansion (A+B)	Impact
Plot Area (in sqm)	sqm	60,000.00	-	60,000.00	No change
Effective Plot Area (Phase-I construction)	sqm	42,000.00	-	42,000.00	No change

Ground Coverage (Permissible) (57% of effective plot area)	sqm	18,000.00	6,000.0	24,000.00	Increase
Ground Coverage (Proposed) (31% of effective plot area)	sqm	12,613.78	428.76	13,042.54	Increase
F.A.R (Permissible) 5.35	sqm	90,000.00	1,35,000.00	2,25,000.00	Increase
Total F.A.R (Proposed) (in sqm) - this includes FAR areas in Basement as well - A (1.93)	sqm	81,427.25	-191.48	81,235.77	Decrease
Mumty, fire stair case area, Fire towers, Service areas, Lifts and Lift Lobbies, Service shafts and cut-outs, public toilets accessed by public corridors (in sqm) - B	sqm	45,701.89	21,632.40	67,334.29	Increase
Basement 1 (area exempt from FAR) - C					
Basement 2 (area exempt from FAR) - D					
Total Built-up area (Covered area as per Unified Building bye laws 2016 amendments) (A+B+C+D) (in sqm)	sqm	1,27,129.14	21,440.92	1,48,570.06	Increase
Green Area (in sqm) 27.6 %	sqm	42,508.22	-	11,592.00	-
Open and Road Area (in sqm)	sqm	4,878.00	-428.76	4,449.24	Decrease
No. of Floors	-	G+10	-	G+8	Decrease
No. of Block	No.	4	-	4	No Change
Level of Basement (Level)	-	2	-	2	No change
No. of Beds	No.	750	491	1,241	Increase
Bio Medical Waste		750 kg/day	-	465 kg/day	Increase

- (v) During construction phase, total water requirement is expected to be 28 KLD for construction purpose which will be met by treated water nearby STP. During the construction phase, soak pits and septic tanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided during peak labour force.
- (vi) During operational phase, total water demand of the project is expected to be 1275 KLD out of which fresh water requirement will be 634 KLD will be sourced by Delhi Jal Board (DJB) and 641 KLD of treated water from STP will be reused in flushing, gardening, Air Washers & cooling purposes. The total waste water generation will be 695 KLD from Domestic and Flushing uses and 62 KLD from Laboratory. The waste water shall be treated in Sewage Treatment Plant (STP) of capacity 750 KLD & Laboratory waste will be treated in Effluent Treatment Plant (ETP) capacity of 70 KLD & 56 KLD treated water from ETP will be discharge to the Sewer line.
- (vii) After expansion, total solid waste generation from the hospital will be approximately 1791 kg/day out of which Biodegradable waste will be 1254 kg/day will be treated in Organic Waste Converter proposed within the project, non-biodegradable waste of 448 kg/day and Plastic waste of 89 kg/day will be handed over to approved authorized recycler. Used Oil will be 70 lit/month shall be generated. E- Waste shall be generated 5 kg/month which will be given to approved recycler. 465 kg/day of Bio medical waste will be generated which will be given to authorized vendor.
- (viii) The total power requirement will be 7076 KVA which will be provided by BSES. In case of power failure, power backup shall be provided through DG sets of 4 x 2000 KVA & 1 x 2000 KVA (stand by) Hence to reduce the air emissions proper stack height shall be provided as per prescribed norms by CPCB.
- (ix) Total 12 Nos. of RWH pits shall be installed to recharge the ground water.
- (x) Parking Requirement for the project will be 1625 ECS. Parking provision will be 1625 ECS.

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- (xi) Energy Conservation measures: All Electrical Equipment will be in compliance to ECBC norms. The electrical lighting will be preferred through LED. Street lights shall be preferred as solar lights. Waste Heat Recovery shall be made from the Boiler waste heat. Energy conservation has also been considered in the design and in the building, materials chosen for the construction. Solar provision of 1% of total load. Electric water heater shall meet the performance/minimum efficiency level mentioned in IS 2082. Gas instantaneous water heaters shall meet the performance/minimum efficiency level mentioned in IS 15558 with above 80% thermal efficiency.
- (xii) No Eco Sensitive Zone lies within the 10 km radius of the project site. Hence, NBWL Clearance is not required.
- (xiii) Forest Clearance is not required.
- (xiv) There is no Court case pending against the project.
- (xv) Cost of the project is Rs. 565 Crores.
- (xvi) Employment potential: Labourers during construction phase 150 no. and about 2100 personnel as hospital staff during operation phase.
- (xvii) Benefits of the project: The hospital will provide world class medical facilities to patients. It will also provide 24x7 Ambulance facilities. The Hospital will provide employment to laborer's during construction phase and employment to personnel working in the hospital during operation phase. The Hospital will also enhance the infrastructure of the area.

3. The project/activity is covered under category 'B' of item 8(a) 'Building and Construction projects' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level. However, due to absence of SEIAA/SEAC in Delhi, the proposal has been appraised at Central level by sectoral EAC.

4. During deliberation by EAC in its 39th meeting held during 26-28 March, 2019, it was informed by the project proponent that the project had earlier been granted Environment Clearance vide letter F.No. 53/DPCC/SEIAA-SEAC/10/1048-52 dated 30.04.2010 for plot area 60,000 sqm and built up area of 1,25,335.267 sqm. Later, due to differences occurring in built-up area from 1,25,335.267 sqm to 1,27,129.147 sqm while sanctioning of plan by DDA, modification in Environment Clearance was granted vide F.No. 53/DPCC/SEIAA-SEAC/10/1965-69 on 30.5.2011 by SEIAA, Delhi. The project proponent has further informed that application for expansion in the project (for built up area 1,48,570.06 sqm) was submitted online on 27.01.2017 to SEIAA, Delhi. Subsequently SEIAA, Delhi vide letter dated 02.06.2017 informed that as the built-up area of the project is less than 1,50,000 sqm, and the project falls under the item 8(a) therefore as per the amendment in EIA notification dated 09.12.2016, it did not require EC. However, amendment in EIA notification dated 09.12.2016 was stayed by NGT vide its order dated 08.12.2017. Accordingly, proposal was again applied to SEIAA, Delhi on 30.01.2018 for grant of environmental clearance for the expansion proposal. The proposal was considered in 96th meeting of SEAC, Delhi on 13.03.2018 for grant of Environmental Clearance. The Committee asked the project proponent to submit certified compliance report on the conditions stipulated in previous Environmental Clearance with a copy to Regional Office of MOEF.

The EAC also deliberated upon the certified compliance report issued by MoEFCC Regional Office, Lucknow vide File No. 4-836/2010-RO(NZ)/622 dated 30.01.2019. As per the Certified Compliance report, Consent to Establish (CTE) was granted by DPCC vide consent order no. DPCC/CMC/2008/18855 dated 22.09.2008 which was valid up to 21.09.2009. Project proponent has submitted online application for renewal of CTE on 18.04.2018. After detailed deliberation proposal was deferred for want of additional information. Project Proponent had submitted the additional information on Ministry's website on 16.05.2019. Accordingly, proposal was re-considered by EAC in its 42nd meeting held during 10-12 July, 2019. The EAC was of view that the project proponent should approach DPCC and get a clear instruction/decision in respect of Consent to Establish. Project

Proponent has submitted the additional information on Ministry's website on 04.12.2019. Accordingly, proposal was again considered by EAC in its 47th meeting held during 26-27 December, 2019.

5. The EAC in its 47th meeting held during 26-27 December, 2019 was informed by the project proponent that they have approached DPCC for seeking the clarification regarding validity of Consent to Establish. DPCC vide its letter DPCC/WMC1/B-1/2014/20399 dated 26.11.2019 stating that "the Consent is being issued with reference to Consent request ID 63302 and valid up to 21.09.2019". Further, project proponent has applied for renewal of CTE vide application dated 26.12.2019.

The EAC based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, recommended the project for grant of environmental clearance with stipulated specific conditions along with other Standard EC Conditions as specified by the Ministry vide OM dated 4th January, 2019 for the said project/activity, while considering for accord of environmental clearance. As per recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the project 'Expansion of 1241 Beds Hospital Complex' at Sector-9, Dwarka, Delhi by M/s Directorate General of Health Services, under the provisions of the EIA Notification, 2006 and amendments/circulars issued thereon, and subject to the specific and general conditions as under:-

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 project proponent shall provide for adequate fire safety measures and equipment as per National Building Code/required by Fire Service Act of the State and instructions issued by the local Authority/Directorate of fire, from time to time. Further, the project proponent shall take necessary permission/NOC regarding fire safety from Competent Authority as required.
- (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.
- (iv) As proposed, fresh water requirement from DJB shall not exceed 634 KLD. Consent to Operate (CTO)/Occupancy Certificate shall be issued only after getting necessary permission for required water supply from DJB/concerned authority.
- (v) Sewage shall be treated in the STP based on MBBR Technology with tertiary treatment i.e. Ultra Filtration. The treated effluent from STP shall be recycled/re-used for flushing, gardening, Air Washers & cooling purposes. Excess treated water will be discharged in to municipal drain.
- (vi) 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.
- (vii) 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.
- (viii) 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

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proposed, 12 no. of rain water harvesting recharge pits shall be provided for rain water harvesting after filtration as per CGWB guidelines.

- (ix) 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, 150 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.
- (x) Laboratory wastes shall be managed in accordance to the BMW Rules, 2016 and the atomic Energy Commission regulations as applicable.
- (xi) Traffic Management Plan as submitted shall be implemented in letter and spirit. Further, 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. 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.
- (xii) No tree cutting/transplantation has been proposed in the instant project. 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 11,592 sqm area shall be provided for green area development.
- (xiii) The company shall draw up and implement corporate social Responsibility plan as per the Company's Act of 2013.
- (xiv) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 01.05.2018, the project proponent has proposed that an amount of Rs. 1.62 Crore (@ 0.75% of project Cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as Waste Management, Drinking water supply & Sanitation, Skill Development & computer education, Solar Power provision, Education (scholarship, Material and Academic support) and Healthcare support. 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.

B. Standard Conditions:

I. Statutory compliance:

- i. 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.
- 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 lightening etc.
- iii. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.

- iv. 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.
- v. 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.
- vi. The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste Management Rules, 2016, shall be followed.
- vii. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

II. Air quality monitoring and preservation:

- i. 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.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5}) covering upwind and downwind directions during the construction period.
- iv. 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. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- v. 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, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
- vi. Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vii. Wet jet shall be provided for grinding and stone cutting.
- viii. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- ix. 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 Management Rules 2016.
- x. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to rules made under the Environment (Protection) Act, 1986.
- xi. 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.
- xii. For indoor air quality the ventilation provisions as per National Building Code of India.

III. Water quality monitoring and preservation:

- i. 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.
- ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iii. 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.
- iv. 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.
- v. 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.
- vi. 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.
- vii. 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.
- viii. 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.
- ix. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- x. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge 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.
- xi. All recharge should be limited to shallow aquifer.
- xii. No ground water shall be used during construction phase of the project.
- xiii. 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.
- xiv. 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.
- xv. No sewage or untreated effluent water would be discharged through storm water drains.
- xvi. 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.

- xvii. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- xviii. 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.

IV. Noise monitoring and prevention:

- i. 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.
- ii. 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.
- iii. 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.

V. Energy Conservation measures:

- i. 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.
- ii. Outdoor and common area lighting shall be LED.
- iii. 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.
- iv. 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.
- v. 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.
- vi. 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.

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VI. Waste Management:

- i. 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.
- ii. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring 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.
- iii. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
- iv. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
- v. 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.
- vi. 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.
- vii. 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.
- viii. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.
- ix. 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.

VII. Green Cover:

- i. 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.

VIII. Transport

- i. 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.
 - d. Parking norms as per local regulation.
 - ii. 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.
- IX. Human health issues:**
- i. 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.
 - ii. For indoor air quality the ventilation provisions as per National Building Code of India.

- iii. Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- iv. 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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

X. Corporate Environment Responsibility:

- i. The company 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 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 MoEF&CC as a part of six-monthly report.
- ii. A separate Environmental Cell both at the project 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.
- iii. 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 not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

XI. Miscellaneous:

- i. 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 MoEFCC/SEIAA website where it is displayed.
- ii. 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.
- iii. 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.
- iv. 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.
- v. 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 (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vi. The project proponent shall inform the 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.

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- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
 - viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and commitment made during their presentation to the Expert Appraisal Committee.
 - ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC).
 - x. 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.
 - xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
 - xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
 - xiii. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
 - xiv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & 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.
 - xv. 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.
6. This issues with the approval of the Competent Authority.

J. Bose
(Dr. Subrata Bose)
Scientist F

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.

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(Dr. Subrata Bose)
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