

122655/2021/OD (LANDSCAPE) (LANDSCAPE)-IIIMinutes of the 55th Meeting of Expert Appraisal Committee (Infra-2) held on 24-25 September, 2020

- (viii) Trend analysis of ground water quality shall be carried out each season and information shall be submitted to the SPCB and the Regional Office of MoEF&CC.
- (ix) Ambient air quality monitoring shall be carried out in and around the landfill site at up wind and downwind locations. On-line real time continuous monitoring facilities shall be provided as per the CPCB or State Board Directions
- (x) As proposed, sufficient Greenbelt shall be developed in area of the proposed facility with native species (as per CPCB guidelines). It shall be ensured that all the trees and other plantation within facility do not in any way encourage the incorporation of toxic materials in the food chain
- (xi) As proposed, onsite and off-site disaster management plan shall be operationalised in consultation with district level authority in order to minimize the hazards to human health or environment from fires, explosion or any unplanned sudden or continuous release of hazardous waste or hazardous waste constituents to air, soil or surface water.
- (xii) As per the Ministry's Office Memorandum F. No. 22-65/2017-IA.III dated 01.05.2018, and as proposed, a fund of Rs. 0.86 Crores (@ 2% of project Cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as Avenue plantation in community areas, Education and skill development programs, Infrastructure development programs in nearby schools, Public welfare (Swachh Bharat Abhiyan), Participation and support to KSPCB for conducting Parisaramitra/green nurturing programme in schools and Providing drinking water facility to nearby villages. 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 monitored strictly. 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.

Agenda item No. 55.4.2.

Construction of 217 Bedded Hospital with built up area of 29,222.305 sqm at plot no FC-53, Sarasvati Vihar, (Near Netaji Subhash Place Metro Station), Delhi by Bharat Prakritik Chikitsa Mission (Regd.) – Environmental Clearance

(IA/DL/MIS/169589/2020; F.No. 21-50/2020-IA-III)

The project proponent did not attend the meeting and as such, the proposal was deferred.

Agenda item No. 55.4.3.

Proposed Recreational Park 'Bharat Vandana Park' at Khasra number 5/1 (0-18), 6/1(0-14), 7/1(0-10), 8/1(0-8), 9/1(0-9), 10/1(0-4), 11/1(0-16), 12/1(0-16),13/1(0-14), 15/1(0-6), 16/1(0-4), 17/1(1-0), 18/1(1-02), 19/1/1(0-02), 19/2/1(0-01) & 58/1/1(1-04)Sector-20 Dwarka, South West Delhi Developed by M/s Delhi Development Authority- Environmental Clearance

(IA/DL/NCP/168943/2020; F.No. 21-5/2020-IA-III)

The Project Proponent (PP) along with his accredited consultant M/s Amaltas Enviro Industrial Consultants LLP (AEC) made a presentation and presented following parameters and salient features of the project to the Committee:

- (i) The project Proposed Recreational Park "Bharat Vandana Park" is located at Khasra number 5/1 (0-18), 6/1(0-14), 7/1(0-10), 8/1(0-8), 9/1(0 9), 10/1(0-4), 11/1(0-16), 12/1(0-16),13/1(0-14), 15/1(0-6), 16/1(0- 4), 17/1(1-0), 18/1(1-02), 19/1/1(0-02), 19/2/1(0-01) & 58/1/1(1- 04), Sector-20, Dwarka, South West Delhi. Site co-ordinates of the project site is 28°34'35.84"N77°3'27.87"E.
- (ii) The total plot area is 8,09,371.28 sqm; FSI area is 7,895.5 sqm; proposed Built-up area of 13,310.5 sqm. Recreational Park is proposed to be constructed in lines with green building principles and LEED-IGBC (Indian Green Building Council) platinum rating standards. The park shall serve as a landmark to the city and one of its kind in Delhi and NCR. The park visions to integrate various experiences and activities that would engage people of all ages and cultures. The Amusement park up to 10 Ha is permitted in District park as per MPD-2021, (Permissible FAR @7.5) and would span over 7,500 sqm. The Restaurant area permissible is 0.8 ha, with permissible FAR of 5 and would span over 400sqm. Land scape area (@ 54.34%) will be 3,97,307 sqm and Area under lakes and water bodies will be 1,04,535 sqm.
- (iii) Design of the Park is a derivative from the form of Lotus Flower, with the outline footprint of lotus. Each petal of the flower be a zone for a specific activity. The Zone demarcation of the site will be as follow:
- a. Congregational Zone
 - b. Cultural Zone
 - c. Pushpa Kriti Sarovar Zone
 - d. Eco sensitive zone
 - e. Meditation garden zone
 - f. Fun park zone
 - g. Adventure park zone
 - h. Lake view restaurant zone
 - i. Mini India zone
 - j. Vandana Sarovar Zone
- (iv) During construction phase, total water requirement is expected to be 450ML. which will be met by treated water from DJB during the construction phase, soak pits and septic tanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided to labor force.
- (v) During operational phase, total water demand of the project is expected to be approx. 2,131 KLD and the same will be met by Delhi Jal Board. Daily fresh water will be 270 KLD however Recycled water will be 654KLD. The domestic sewage will be treated through sewage treatment plant of capacity 200 KLD each (4 Nos.), the treated domestic wastewater shall be recycled and re use within premises. The treated sewage will be re used for flushing (510 KLD) greenbelt development (730 KLD), surplus treated water requirement shall be met by CSTP located in sector- 16 Dwarka. For the treatment of the water from Dwarka CSTP will be installing an STP of 2000 KLD to meet the needs of water bodies and green areas.
- (vi) About 7.6 TPD solid wastes will be generated in the project. The biodegradable waste (4.57 TPD) will be processed in OWC and the non-biodegradable waste generated (2.285 TPD) will be handed over to authorized local vendor.
- (vii) Total power requirement during operation phase is 2.55 MVA and will be met from BSES. Transformer selected total max. Demand load 2298.27KW & Proposed PSS- 4Nos. 800kVA. In case of power failure, total max. Demand load 1166.27KW DG

- Selection- 4 Nos. DG sets of - 380kVA capacities will be provided as power back-up for building.
- (viii) Roof top rainwater of buildings will be collected in 30 Rainwater harvesting storage pits after filtration.
 - (ix) Parking facility for 1,900 [4 Wheelers]; 500 [2 Wheeler]; 70 [Bus Parking] is proposed to be provided
 - (x) Proposed energy saving measures would save about 18-20 % of power.
 - (xi) No Eco-sensitive/Wildlife sanctuary is located within 10 km of project site. Site does not fall in Forest land.
 - (xii) No court case is pending against the project.
 - (xiii) The EIA report has been prepared based on the base-line data generated during winter season (1st December, 2019 – 10th March, 2020).
 - (xiv) Investment/Cost of the project is Rs. 530 Crores.
 - (xv) Employment potential- During Construction phase approx. 600 persons shall get employment.
 - (xvi) Benefits of the project - Wastewater treatment, Landscape enhancement, energy conservation, parking management, rainwater harvesting – Environment.

The project proponent informed the EAC that the Delhi Development Authority envisaged planning, design & construction of BHARAT VANDANA PARK in sector 20, Dwarka South West District of Delhi near Dwarka Sector-9 metro station. The park has been thought about on the lines of a destination park unlike the conventional parks, already existing in the state. This is being planned to include multiple activities in order to make it a vibrant and dynamic park which would also be self-contained and self-sustaining.

The EAC, based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, recommended granting environmental clearance to the project subject to the following specific conditions and other Standard EC Conditions as specified by the Ministry vide OM dated 4th January, 2019 for the said project/activity (specified at Annexure-7 of the minutes), while considering for accord of environmental clearance:

- (i) The Environmental Clearance to the project is primarily under provisions of EIA Notification, 2006. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes as applicable to the project.
- (ii) As proposed, fresh water shall be sourced from DJB, which shall not exceed 270 KLD for operation of facility and necessary permission shall be obtained.
- (iii) As proposed, wastewater will be treated in the inhouse 04 STPs of Capacity 200 KLD each. All the treated water will be used within the proposed campus for flushing, landscape and water bodies. No treated/untreated effluent shall be discharged outside the premises.
- (iv) During construction stage, treated wastewater shall be used from nearest STP with dedicated pipeline and arrangement for further treatment can be exercised for construction purposes, if treated wastewater from STP is not meeting the desired quality.
- (v) In order to mitigate the emission load from traffic and to promote cleaner fuel options, Electric Car Charging Points shall be provided at the Parking and provision of vehicles based on green fuel like CNG shall be facilitated.

- (vi) 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.
- (vii) As proposed, 30 Nos. of rain water harvesting recharge pits shall be provided for rain water harvesting after filtration as per CGWB guidelines.
- (viii) Segregated bio-degradable waste shall be compost in Organic Waste Converter. Adequate 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 designated/authorized landfill site.
- (ix) No tree cutting/transplantation has been proposed in the instant project. A minimum of one 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 3,97,307 sqm (55.34% of total area) area shall be provided for green area development.
- (x) As per the Ministry's Office Memorandum F. No. 22-65/2017-IA.III dated 1st May, 2018, the project proponent has proposed that an amount of Rs. 5.3 Crore (@ 1.0% of project Cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as Tree plantation drive, Drinking water facilities, Installation of solar lights in village common areas, Solid waste management facilities (Provision of waste bins) and Construction of Public toilets under total sanitation campaign. 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 of the MoEFCC as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

Agenda item No. 55.4.4.

Construction of New Campus of Dr. B.R. Ambedkar University Delhi with built area of 2,83,690 sqm at Dheerpur Campus, New Delhi developed by M/s Dr.B.R. Ambedkar University Delhi- Terms of Reference

(IA/DL/MIS/171907/2020; F.No. 21-47/2020-IA-III)

The Project Proponent (PP) along with his accredited consultant M/s Amaltas Enviro Industrial Consultants LLP (AEC) made a presentation and presented following parameters and salient features of the project to the Committee:

- (i) The project is located at Dheerpur Campus, New Delhi. Site co-ordinates of the project site is 28°43'17.80"N 77°12'30.92"E. This is a Proposed New Campus of Dr. B.R. Ambedkar University Delhi.
- (ii) The total plot area is 2,00,000.00 sqm; FSI area is 1,76,987.00 sqm; and total construction (Built-up) area of 2, 83,690.00Sqm. Ambedkar University Delhi (AUD) established by Government of NCT of Delhi in 2008 for providing higher education in the Social Sciences, Liberal Arts and Humanities. Maximum height of the building is 108.00 metre.
- (iii) During construction phase, total water requirement is expected to be 7,830.97ML. Which will be met by treated water from DJB during the construction phase, soak pits

ANNEXURE-7**Standard EC Conditions for Project/Activity 8(a/b): Building and Construction projects / Townships and Area Development projects**

- 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 fire fighting equipment etc as per National Building Code including protection measures from lightning etc.
 - iii. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.
 - iv. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
 - v. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
 - vi. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
 - vii. 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.
 - viii. 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.
 - ix. The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste Management Rules, 2016, shall be followed.
 - x. 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, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
 - vi. Sand, murrum, 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 Environmental (Protection) prescribed for air and noise emission standards.
 - 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. Total fresh water use shall not exceed the proposed requirement as provided in the project details.
 - iv. 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.
 - v. 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.

- vi. 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.
 - vii. 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.
 - viii. 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.
 - ix. 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.
 - x. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
 - xi. 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. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
 - xii. 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.
 - xiii. All recharge should be limited to shallow aquifer.
 - xiv. No ground water shall be used during construction phase of the project.
 - 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.
 - xvi. 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.
 - xvii. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
 - xviii. No sewage or untreated effluent water would be discharged through storm water drains.
 - xix. 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.
 - xx. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
 - xxi. 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.
- 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. 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.
 - iv. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.

- v. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
 - vi. 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.
 - vii. 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.
 - viii. 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.
 - ix. 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.
 - x. 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. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
 - ii. 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.
 - iii. Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
 - iv. 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.
 - iii. 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.
- 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 project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 01.05.2018, as applicable, regarding Corporate Environment Responsibility.
 - ii. 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.
 - iii. 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.
 - iv. 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.
- 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, commitment made during Public Hearing and also that 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.
