

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

CHAPTER III: POST ENVIRONMENTAL COMPLIANCE STATUS

Name and location of the project: Affordable Group Housing project located at Village Mewla Maharajpur, Sec-45, Faridabad, Haryana

EC letter no: SEIAA/HR/2019/272; dated 30.08.2019

Compliance of conditions as mentioned in the EC letter

S. No.	CONDITIONS	STATUS OF COMPLIANCE
I. STATUTORY COMPLIANCE		
1.	The project proponent shall obtain all necessary clearance/permission from commencement of work. All the construction shall be done in accordance with the local building byelaws.	The construction work was not commenced until the project obtained the Consent to Establish. Now, the CTE NOC vide letter HSPCB/Consent/:329962319FDBDCTE7046301 dated 11.12.2019 has been obtained and construction work has been initiated accordingly. The CTE certificate is attached as Annexure II.
2.	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipments etc as per National Building Code including protection measures from lightening.	The structural safety certificate has been submitted to MoEF&CC at the time of obtaining Environment Clearance. The certificate is attached as Annexure III.
3.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	No forest Land is involved. However, Forest NOC has been obtained which is attached as Annexure IV.
4.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Since the project does not falls under any eco-sensitive zone, the condition is not applicable.
5.	The project proponent shall obtain Consent to Establish/Operate under the provision of Air (Prevention & Control of Pollution) Act, 1981 and the water (Prevention & Control) Act, 1974 from the Haryana state Pollution	Consent to establish has been obtained for the project vide letter HSPCB/Consent/: 329962319FDBDCTE7046301 dated 11.12.2019. The same is attached as Annexure II.

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

	Control Board.	
6.	The project proponent shall obtain all the necessary permission for drawl of ground water/ surface water required for the project from the competent authority.	No ground abstraction for fulfilling the needs of water requirement at site will be done. Fresh & Treated water will be procured from HSVP, Faridabad. The copy of water assurances (Fresh Water Assurance& Treated water Assurance) are enclosed as Annexure V .
7.	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.	Temporary power connection has been obtained. Electricity bill for the month of march attached as Annexure V .
8.	All other statutory clearances such as the approvals for storage of diesel from Chief controller of Explosives, Fire Department, and Civil Aviation department shall be obtained, as applicable, by project proponent from the respective competent authorities.	Since, diesel will be procured on requirement basis and will not be stored in bulk amount at the site; therefore, the permission from Chief controller of Explosives, Fire Department and Civil Aviation Department is not required. The permission will be obtained if necessary.
9.	The provisions of the Solid waste (Management) rules, 2016, e-waste (Management) rules, 2016 and the Plastics Waste (Management) rules, 2016 shall be followed.	All the provisions as stipulated in Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016 & the Plastic Waste (Management) Rules, 2016 will be followed
10.	The project Proponent shall follow the ECBC Act/ECBC- Rules prescribed by Bureau of Energy Efficiency, Ministry of Power strictly in addition of bylaws of the State Government.	Agreed. The ECBC report is attaches as Annexure X .
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.	All the measure for preventing dust emission from the site are followed. Anti-Smog gun has been installed at the site.
(ii)	A management plan shall be drawn up & implement to contain the current exceeding in ambient air quality at the site.	This will be done.

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
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Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

(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 & PM 2.5) covering upwind & downwind directions during the construction period.	This will be done.
(iv)	Diesel power generating sets proposes as source of back-up power should be enclosed type & conform to rules made under the Environment (Protection) Act, 2986. The height if stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of Ultra low sulphur diesel. The location of the DG sets may be decided with the consultation with State Pollution control Board.	All the DG sets which will be installed on the project site will be acoustically enclosed with adequate stack height. The same will be fuelled with Ultra low sulphur diesel.
(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 material prone to causing dust pollution at the site as well as taking out debris from the site.	The construction work for wind breaking wall all around the project site is in its initial stage. Covered transportation of construction material will be done once the structural work for the buildings is commenced.
(vi)	Sand, murrum, loose soil, stored on the site shall be covered adequately so as to prevent dust pollution.	All the construction material brought to the site are properly stored and are kept covered by using tarpaulin or green nets.
(vii)	Wet jet shall be provided for grinding and stone cutting.	This will be done once the stage is achieved.
(viii)	Unpaved surfaces and loose soil shall be sprinkled with water to suppress dust.	This will be done.
(ix)	All construction and demolition debris	The demolition waste is stored at the site,

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

	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 provision of the Construction and Demolition waste rules 2016.	will be disposed once approval will be obtained from concerned SPCB for C&D waste.
(x)	The diesel generator sets to be used during construction phase shall be ultra low sulphur diesel type and shall conform to Environment (Protection) Act prescribed for air and noise emission standards.	Agreed.
(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. Ultra 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).	All the DG sets which will be installed at the project site will be acoustically enclosed with adequate stack height. The same will be fuelled with Ultra low sulphur diesel.
(xii)	For indoor air quality the ventilation provisions as per National Building code of India.	Noted
(xiii)	The project proponent shall provide water sprinkling system in the project area to suppress the dust in addition to the already suggested mitigation measures in the Air Environment chapter of EMP.	Anti-Smog Gun has been installed at the Project Site.
(xiv)	The Project Proponent shall ensure proper Air Ventilation And Light system in the basements area for Comfortable living of human being and shall ensure that number of Air changes per hour/(ACH) in basement never falls below 1.5. In case of emergency capacity for increasing ACH to the extent of 30 must be provided by the project proponent.	Noted.

III. WATER QUALITY MONITORING AND PRESERVATION

(i)	The natural drain system should be	A proper drainage system at site will be
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Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

	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.	developed for ensuring unrestricted flow of water. However, no natural drainage pattern is passing through the site.
(ii)	Building shall be designated to follow the natural topography as much as possible. Minimum cutting and filling should be done.	This will be taken care of.
(iii)	Total fresh water use shall not exceed the proposed requirement as provide in the project details.	The total water demand depends upon the demography of the project site. However, it will be ensured that the same does not exceed the total fresh water requirement as stipulated in EC letter.
(iv)	The quality 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/SEIAA along with six monthly compliance reports.	The test reports related to quality of fresh water usage, water recycling and rainwater harvesting will be followed once the project comes into operation.
(v)	A certificate shall be obtained from the local body supplying water, specifying the total water availability with the local authority, the quantity of water already committed the quality of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water available sources, ensuring that there is no impact on other users.	Fresh water assurance from HSVP, Faridabad on vide letter dated 05.07.2019 has been obtained. The said assurance is enclosed as Annexure V . Further, no ground water abstraction is done at site. Water bills are attached as Annexure VII .
(vi)	At least 20 % of the open area spaces as required by the local building bye-laws shall be previous. Use of grass pavers, paver blocks with at least 50 % opening,	The landscape will be developed as per the plan submitted at SEIAA, Haryana.

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

	landscape etc. would be considered as previous 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.	Agreed. Dual plumbing lines will be installed throughout the project site in order to prevent the unwanted mixing of fresh water and treated water.
(viii)	Use of water saving devices/fixtures (viz. low flushing systems; use of low faucets tap aerators etc) for water conservation shall be incorporated in the building plan.	This will be done.
(ix)	Separation of grey and black water should be done by the use dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.	Dual plumbing lines will be installed.
(x)	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Noted.
(xi)	The local bye-law provisions on rain water harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model building Byelaws, 2016. 06 Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.	A total number of 06 rain water harvesting pits will be constructed at site. The recharging will be done as per CGWB norms.
(xii)	A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 sq. m. 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 eater	The rain water harvesting system will be constructed as per the plan submitted in SEIAA, Haryana.

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

	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.	Noted.
(xiv)	No ground water shall be used during construction phase of the project.	Noted. No ground water abstraction is done at site. The treated water for construction purposes is being procured from the nearby private water supplier.
(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.	No Ground water extraction is involved in the project.
(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/SEIAA along with six monthly Monitoring reports.	The test reports related to quality of fresh water usage, water recycling and rainwater harvesting will be followed once the project goes into operation.
(xvii)	Sewage shall be treated in the STP with tertiary treatment having BOD value less than 10 ppm. The treated effluent from STP shall be recycled/reused for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed to municipal drain.	During Operation phase, the treated waste water obtained from STP of MBBR technology of 420 KLD, will be analysed for keeping all the parameters in check. The treated waste water will be utilized in landscaping and flushing.
(xviii)	No sewage or untreated effluent water would be discharged through storm water drains.	Noted.
(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	During Operation phase the waste water generated from domestic will be treated in in-house installed STP of MBBR technology with the capacity of 420 KLD. The treated water will be utilized in landscaping and flushing.

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

	Ministry before the project is commission or operation. Treated waste water shall be reused on the 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.	Further, the installation of STP will be done by an independent expert and the report regarding the same will be submitted once the STP is installed followed by its trail tests before commissioning the operation phase of the project. For discharging surplus treated water, permission for HSVP Sewer line connection has been obtained. The same is attached as Annexure IX
(xx)	Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.	This will be done and taken care of.
(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 Environment Engineering Organization (CPHEEO) Manual on Sewage and Sewage Treatment Systems, 2013.	Sludge generated from the in-house installed STP, will be dried and utilized as manure for green belt development at the site.
IV. NOISE MONITPRING AND PREVENTION		
(i)	Ambient noise levels shall conform to residential area/commercial 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.	The Ambient noise levels will be maintained as per the CPCB standards. Monitoring report in this regard is attached as Annexure VIII.
(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/SEIAA as a part of	Monitoring Reports attached as Annexure VIII.

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

	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.	Construction is ongoing so DG is being installed and the mitigation measures for noise are being taken. Mention the mitigation measures are being adopted.
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 also.	This will be done and taken care of. ECBC report of the project in this regard is attached as Annexure X .
(ii)	Outdoor and common area lighting shall be LED.	This will be done once the electrical & lighting work come in process.
(iii)	Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelopes, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof R & U-values shall be as per ECBC specifications.	Noted. The building orientation will be done in such a way that maximum use of sunlight is achieved along with the appropriate fenestration. The construction materials are used as per ECBC specifications. In the said reference ECBC compliance report has been submitted in SEIAA, Haryana. The same is enclosed as Annexure X .
(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.	Agreed. Energy efficient & saving lightings in the common/open area will be preferred inside & outside the buildings.
(v)	Solar, wind or other Renewable Energy shall be installed to be meet electricity generation equivalent to 1% of the demand load or as per the state level/local building bye-laws requirement, whichever is higher.	There will the provision of Solar lighting in the project. PV cells will be provided over the roofs of the buildings.
(vi)	Solar power shall be used for lightning in the apartment to reduce the power load on grid. Separate electric meter shall be	In the operational phase, appropriate energy conservation measures and management plan will be adopted in order

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

	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 requirement of the local building byelaws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.	to reduce the power load on the grid. Therefore, solar energy for the same will be deployed in the project. All the open/common areas, entry/exit gates & site surroundings will be solar powered.
(vii)	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of explosives shall be taken.	Since, diesel is required procured on requirement basis and stored in bulk amount at the site; therefore, the permission from Chief controller of Explosives, Fire Department and Civil Aviation Department is not required. The permission will be obtained if necessary.
(viii)	Roof must meet prescriptive requirement as per Energy conservation Building Code by using appropriate thermal material.	Agreed.
(ix)	Opaque wall must meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all air conditioned spaces while it is desirable for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfil requirement.	Agreed.

VI. WASTE MANAGEMENT

(i)	A certificate from the competent authority handling municipal solid wastes, including the existing civic capacities of handling and their adequacy to cater to the M.S.W generated from project	During the construction phase, the construction spoils will be re-used in the construction activities and the surplus will be managed through vendors. The demolition waste will be disposed after obtaining approval from the concerned SPCB at the earliest. During operation phase, the biodegradable waste generated from the domestic activities will treated in the proposed organic waste converter. Other recyclable/inert wastes will be managed
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Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

		through the engaged vendors.
(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.	The waste to be generated during the construction phase will be collected and disposed off via vendors.
(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.	Agreed. Colour coded bins (green & blue) will be provided at different locations at the project site.
(iv)	Organic Waste Converter within the premises with a minimum capacity of 0.5 kg/person/day must be installed. Leaves to be put in earmarked pits for converting them into compost to be used as manure.	Agreed.
(v)	All non-biodegradable waste shall be handed over to the authorized recyclers for which a written tie up must be done with the authorized recyclers.	Noted.
(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.	Noted.
(vii)	Use of environment friendly materials in bricks, block and other construction materials, shall be required for at least 20% of the construction material quality. These include Fly Ash, hollow bricks, AACs, Fly Ash Lime Gypsum Blocks, compressed Earth Blocks, and other environment friendly material.	All the construction materials to be used at site will be environment friendly. Use of fly ash mixed concrete & bricks are in use as per the Fly ash notification, 2009 as amended time to time.
(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 27 th August, 2003 and 25 th January 2016. Ready mixed concrete	Agreed.

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

	must be used in building construction.	
(ix)	Any waste from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.	All the waste generated from construction activities will be managed as per the Construction and Demolition 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.	Noted.
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 the girth and age regulations as may be prescribed by the Forest Department Plantations to be ensured species (cut) to species (planted).	The land during the acquisition was vacant and was devoid of any tree, only small herbs & shrubs were present at site which is removed for the construction purposes.
(ii)	A minimum of 1 tree for every 80 sq. m. 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 desired. Water intensive and/or invasive species should not be used for landscaping.	Noted. The landscape will be developed as per the plan submitted in SEIAA, Haryana.
(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.	Agreed, however no tree cutting/felling is involved in the project.
(iv)	Topsoil should be stripped to a depth of 20	The excavated top soil is being stockpiled

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

	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.	at designated location within the project site and will be utilized in backfilling & landscape development.
(v)	The project proponent shall provide green area on terrace and roof top.	Green area will be developed as per the plan submitted at SEIAA, Haryana.
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. <ul style="list-style-type: none"> 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 regulations. 	Noted.
(ii)	Vehicles hired for bringing construction material to the site should be in good condition and should conform to applicable air and noise emission standards are operated only during non-peak hours.	Vehicles & trailers which are deployed for bringing the construction material at site are in good conditions and have PUC certificate.
(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 km. 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 Km radius of the site in	Noted. The traffic in and around the project site will be managed as per the traffic circulation plan submitted to SEIAA, Haryana. Proper entry & exit gates will be provided in order to prevent any kind of traffic disturbance.

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

	different scenarios of space and time and the traffic management plan shall be duly validated and certified by 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.	All the construction workers involved in any construction activities at site is being provided with proper PPEs.
(ii)	For indoor air quality the ventilation provisions as per national Building Code of India.	Agreed.
(iii)	Emergency preparedness plan based on the hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Noted.
(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 structure to be removed after the completion of the project.	For the ease of working environment, labour hutments are being provided to the construction workers nearby the construction site.
(v)	Occupational health surveillance of the workers shall be done on a regular basis.	Noted.
(vi)	A first Aid room shall be provided in the project both during construction and operation of the project.	On site first aid facility is being provided to the construction labours.
(vii)	The project proponent shall be adequately control construction dusts like silica dust, non-silica dust and wood dust. Such dusts shall not spread outside project premises. Project proponent shall provide respiratory protective equipment to all construction workers.	Proper sprinkling of water is being done and will be continued in order to prevent fugitive dust emission from the site. Anti-Smog gun is installed at site.

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

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 1 st May 2018, as applicable, regarding Corporate Environment Responsibility.	CER activities will be ensured as per the plan submitted to SEIAA, Haryana. The same is enclosed herewith as Annexure XII .
(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/ and/ or stakeholders/ stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC/SEIAA as a part of six-monthly compliance reports.	Noted.
(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 to the head of the organization.	Agreed. An environment cell will be formed with qualified personnel once the project is in operation phase.
(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 action plan shall be reported to the Ministry/Regional Office/SEIAA along with the Six Monthly Compliance Report.	Noted.
XI. MISCELLANEOUS		
(i)	The project proponent shall prominently advise 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	This has been done. The copy of same is attached as Annexure XI .

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

	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 Head 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.	This will be followed.
(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.	The status of Environment clearance has been shown over the company's website http://www.sarvome.com . Similarly, the compliance reports with analysis report will be uploaded over the website time to time.
(iv)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (soft copies) to the northern Regional Office of MoEF, HSPCB and SEIAA Haryana.	Agreed. Acknowledgment Copy of last submitted Compliance report is attached as Annexure I .
(v)	The project proponent shall submit the environmental Statement for each financial year in Form – V 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.	This will be followed.
(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.	Noted.
(vii)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Agreed.
(viii)	The project proponent shall abide by all the commitments and recommendations made during Public	Noted.

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

	Hearing and also that during their presentation to the Expert Appraisal Committee.	
(ix)	No further expansion or modifications on the plan shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC). The project proponent shall seek fresh environmental clearance under EIA notification 2006 if at any stage there is change of planning of this project.	The project is going for expansion over the additional land of 4.68125 acres, for which Land Licence has been obtained from Directorate of Town and Country Planning, Haryana.
(x)	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provision of Environment (Protection) Act, 1986.	Agreed. However, Jotindra Steel & Tubes Limited abides with all the rules and regulations with transparency.
(xi)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed.
(xii)	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted.
(xiii)	The Regional Office of the Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the office (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Noted.
(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 (Protective) Act, 1986, Hazardous and other waste (Management and Trans Boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by Hon'ble	Agreed.

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

	Supreme Court of India/High Courts and any other Court of Law relating to the subject matter.	
(xv)	The Project Proponent shall ensure the commitments made in Form I, Form-IA, EIA/EMP and other documents submitted to the SEIAA for the protection of environment and proposed environmental safeguards are complied with in letter and spirit. In case of contradiction between two or more documents on the point, the most environmentally friendly commitment on the point shall be taken as commitment by project proponent.	Agreed. This will be ensured.
(xvi)	STP outlet after stabilization and stack emission shall be monitored monthly. Other environmental parameters and green belt shall be monitored on quarterly basis. After 3 (three) months, the project proponent shall conduct environmental audit and shall take corrective measure, if required without delay.	During Operation Phase, STP functioning and outlet parameters along with the air emission sources will be monitored in the definite interval of time. Greenbelt will be maintained. Further, the environmental audit report will be submitted in the forthcoming compliance report.
(xvii)	The project proponent shall not violate any judicial orders/pronouncements issued by any Court/Tribunal.	Noted.
(xviii)	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the Project Proponent if it was found that construction of project has been started before obtaining prior Environment Clearance.	Agreed. No construction and related activities were done before obtaining prior Environment Clearance.
(xix)	Any appeal against the this Environment 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.	Agreed.
(xx)	The project proponent shall put in place Corporate Environment Policy as mentioned in MoEF, GOI OM No. J-11013/41/2006-IA II (I) dated 26.04.2012 within 3 months period. Latest Corporate Environment Policy	Noted.

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

	Should be submitted to SEIAA within 3 months of issuance of this letter.	
(xxi)	The project proponent shall ensure the compliance of Forest Department, Haryana Notification no. S.O.121/PA2/1900/S.4/97 dated 28.11.1997.	Noted, however no forest area is located nearby the project site.
(xxii)	The project proponent is responsible for compliance of all conditions in Environmental Clearance letter and project proponent can not absolve himself /herself of the responsibility by shifting it to any contractor engaged by project proponent. Besides the developer/applicant, the responsibility to ensure the compliance of Environmental Safeguards/conditions imposed in the Environmental Clearance letter shall also lie on the licensee/licensees in whose name/names the license/CLU has been granted by the Town & Country Planning Department, Haryana.	Agreed.
(xxiii)	The project proponent shall seek fresh Environmental clearance if at any stage there is change in the planning of the proposed project.	Noted.
(xxiv)	The project proponent shall conduct environment audit, at every three months interval and thereafter corrected measures shall be taken without any delay. Details of environmental audit and corrective measures shall be submitted in the monitoring report.	Agreed. Environment Audit reports will be submitted along with forthcoming compliance report.
(xxv)	The Project Proponent shall not raise any construction in the natural land depression / Nallah/water course and shall ensure that the natural flow from the Nallah/water course is not obstructed.	Noted.
(xxvi)	The Project Proponent shall keep the plinth level of the building blocks sufficiently above the level of the approach road to the Project. Levels of the other areas in the Projects shall also be kept suitably so as to avoid	Agreed. This will be taken care off.

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

	flooding.	
(xxvii)	The project proponent shall construct a sedimentation basin in the lower level of the project site to trap pollutant and other wastes during rains.	Noted. This will be done.
(xviii)	The project proponent shall provide proper Rasta of proper width and proper strength for the project before the start of construction.	Proper rasta will be constructed for the safe movement of the construction workers & vehicles.
(xxix)	The project proponent shall develop complete civic infrastructure of the Residential Plotted colony including internal roads, green belt development, sewerage line, Rain Water recharge arrangements, Storm water drainage system, Solid waste management site and provision for treatment of bio-degradable waste, STP, water supply line, dual plumbing line, electric supply line etc. and shall offer possession of the units/flats thereafter.	All the amenities and service lines will be installed and constructed as per the plans submitted at SEIAA, Haryana. The units/flats will be handed over for possession only after the completion of installation of service lines such as dual plumbing, water supply lines, storm water drainage system, RWH arrangements, construction of internal roads, electric line connection etc.
(xxx)	The project proponent shall provide fire control room and fire officer for building above 30 meter as per National Building Code.	Noted.
(xxxi)	The site for solid waste management plant be earmarked on the layout plan and the detailed project for setting up the solid waste management plant shall be submitted to the Authority within one month.	Noted.
(xxxii)	The project proponent shall discharge excess of. Treated waste water/storm water in the public drainage system and shall seek permission of HUDA before the start of construction.	Noted. Permissions attached as Annexure V.
(xxxiii)	The project proponent shall maintain the distance between STP and water supply line.	Agreed.
(xxxiv)	The project proponent shall ensure that the stack height is 6 meter more than the highest tower.	Proper stack height will be maintained as per the CPCB norms.
(xxxv)	For disinfection of the treated wastewater ultra-violet radiation or ozonization process should be used.	The waste water generated from the units will be treated in MBBR technology based STP of 420 KLD capacity which will be having tertiary treatments like

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

		Ozonization& UV radiation system for disinfection.
(xxxvi)	The project proponent shall strive to minimize water in irrigation of landscape by minimizing grass area, using native variety, xeriscaping and mulching, utilizing efficient irrigation system, scheduling irrigation only after checking evapo-transpiration data.	Xeriscaped landscape will be promoted by planting those plants with less water requirements. Only native plants will be the part of green area at the site. Further, treated water will be used for irrigation purposes.
(xxxvii)	The Project Proponent shall use zero ozone depleting potential material in insulation, refrigeration, air-conditioning and adhesive. Project Proponent shall also provide Halon free fire suppression system.	Noted.
(xxxviii)	Standards for discharge of environmental pollutants as enshrined in various schedules of rule 3 of Environment Protection Rule 1986 shall be strictly complied with.	Noted.
(xxxix)	The project proponent shall ensure that the of DG sets is more than the highest tower and also ensure that the emission standards of noise and air are within the CPCB latest prescribed limits. Noise and Emission level of DG sets greater than 800 KVA shall be as per CPCB latest standards for high capacity DG sets.	Agreed. Proper stack heights will be provided to the acoustically enclosed DG sets to be deployed at the site. It will be ensured that the emission standards of noise and air are within the CPCB latest prescribed limits.
(xl)	All electric supply exceeding 100 amp, 3 phase shall maintain the power factor between 0.98 lag to 1 at the point of connection.	Agreed.
(xli)	The project proponent shall not use fresh water for HVAC and DG cooling. Air based HVAC system should be adopted and only treated water shall be used by project proponent for cooling, if it is at all needed. The Project Proponent shall also use evaporative cooling technology and double stage cooling system for HVAC in order to reduce water consumption. Further temperature, relative humidity during summer and winter seasons should be kept at optimal level. Variable speed	There is no provision of HVAC at site and DG sets are air cooled.

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

	drive, best Co-efficient of Performance (Cop), as well as optimal Integrated Point Load Value and minimum outside fresh air supply may be resorted for conservation of power and water. Coil type cooling DG Sets shall be used for saving cooling water consumption for water cooled DG Sets.	
(xlii)	The project proponent shall ensure that the transformer is constructed with high quality grain oriented, low loss silicon steel and virgin electrolyte grade copper. The project proponent shall obtain manufacturer's certificate also for that.	Noted. Further manufacture's certificate will be submitted once it obtained.
(xliii)	The project proponent shall ensure that exit velocity from the stack should be sufficiently high. Stack shall be designed in such a way that there is no stack down-wash under any meteorological conditions.	Noted. This will be taken care off.
(xliv)	The validity of this environment clearance letter is valid up to 7 years from the date of issuance of EC letter. The environment clearance conditions applicable till life space project in case of Residential project will continue to apply. The resident welfare association/Housing co-operative societies shall responsible to comply conditions laid down in EC. In case of violation the action would be taken as per the laid down law of land. Compliance report should be sent to this office till life of the project.	Noted.

B. Compliance of Conditions as mentioned in the NGT Order Dated 10.04.2015

S.No.	NGT Order dated 10.04.2015	Status of Compliance
1.	Every builder or owner shall put tarpaulin on scaffolding around the area of construction and the building. No person including builder, owner can be permitted to store any construction material particularly sand on any part of the street, roads in any colony.	All the construction material will be kept covered within the project site at designated location. Scaffolding & green net will be provided all around the construction area and buildings.

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

2.	The construction material of any kind that is stored in the site will be fully covered in all respects so that it does not disperse in the Air in any form.	The construction material will be kept fully covered with the help of green nets. Measures will be taken to prevent dust dispersion in the air.
3.	All the construction material and debris shall be carried in the trucks or other vehicles which are fully covered and protected so as to ensure that the construction debris or the construction material does not get dispersed into the air or atmosphere, in any form whatsoever.	Covered transportation of construction material will be done at site.
4.	The dust emissions from the construction site should be completely controlled and all precautions taken in that behalf.	Noted.
5.	The vehicles carrying construction material and construction debris of any kind should be cleaned before it is permitted to ply on the road after unloading of such material.	Noted.
6.	Every worker working on the construction site and involved in loading, unloading and carriage of construction material and construction debris shall be provided with mask to prevent inhalation of dust particles.	Proper PPEs will be provided to construction workers & those who will be involved in loading and unloading of the construction material.
7.	Every owner and or builder shall be under obligation to provide all medical help, investigation and treatment to the workers involved in the construction of building and carry of construction material and debris relatable to dust emission.	Noted.
8.	It shall be the responsibility of every builder to transport construction material and debris waste to construction site, dumping site or any other place in accordance with rules and in terms of this order.	Waste generated from the construction activities will be reused and surplus will be disposed off through authorized vendors.
9.	All to take appropriate measures and to ensure that the terms and conditions of the earlier order and these orders should strictly comply with by fixing sprinklers, creations of green air barriers.	Noted.
10.	Compulsory use of wet jet in grinding and stone cutting.	Wet jet will be used once the stage is achieved.
11.	Wind breaking walls around construction site shall be provided.	Noted.

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

12.	All the builders who are building commercial, residential complexes which are covered under the EIA Notification of 2006 shall provide green belt around the building that they construct. All Authorities shall ensure that such green belts are in existence prior to issuance of occupancy certificate.	Noted.
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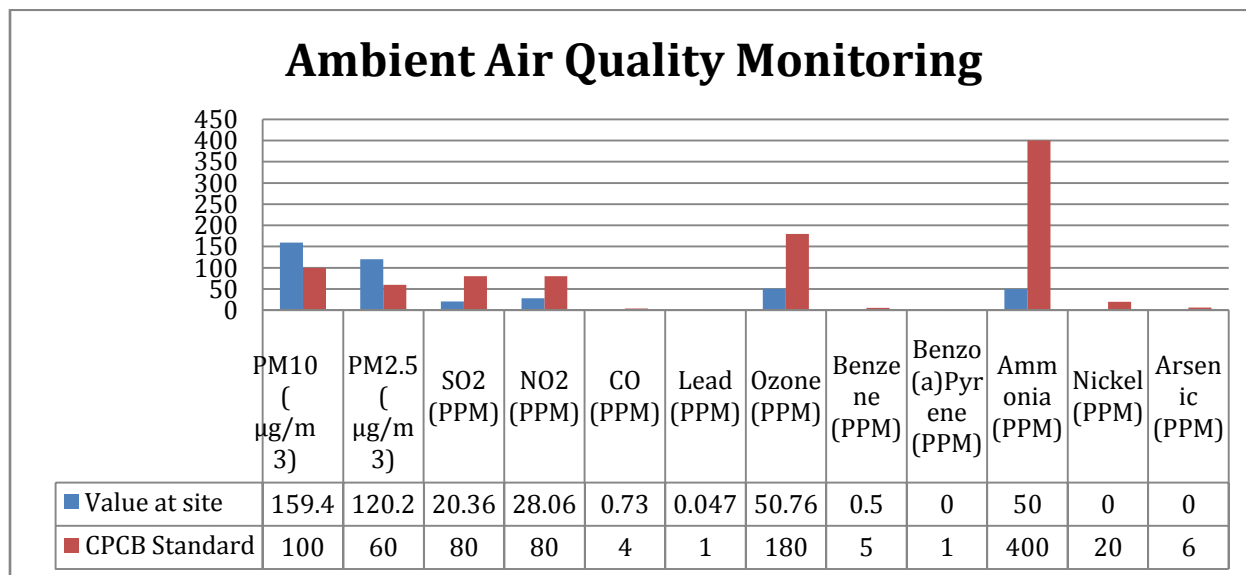
Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

CHAPTER IV: ENVIRONMENTAL MONITORING ANALYSIS

Site visit was conducted along with team of NABL Accredited Laboratory “Chemical Analysis Lab” for monitoring of the emission levels and contamination level of different parameters. The monitoring and collection of samples were done as per CPCB Norms. Following parameters were analyzed and observations are mentioned below. Monitoring results are attached as **Annexure VIII**.

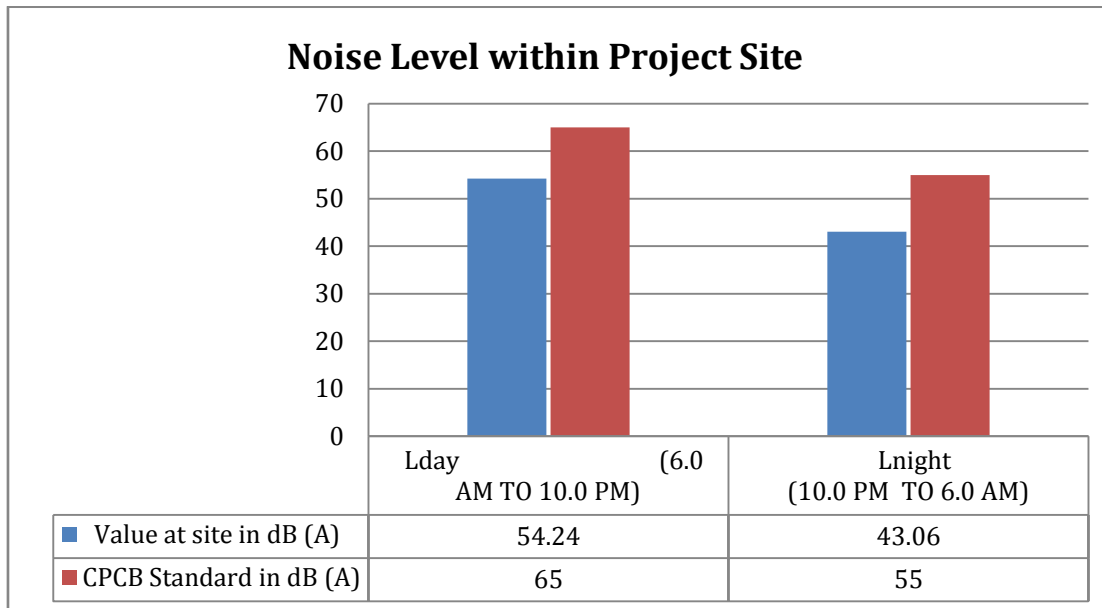
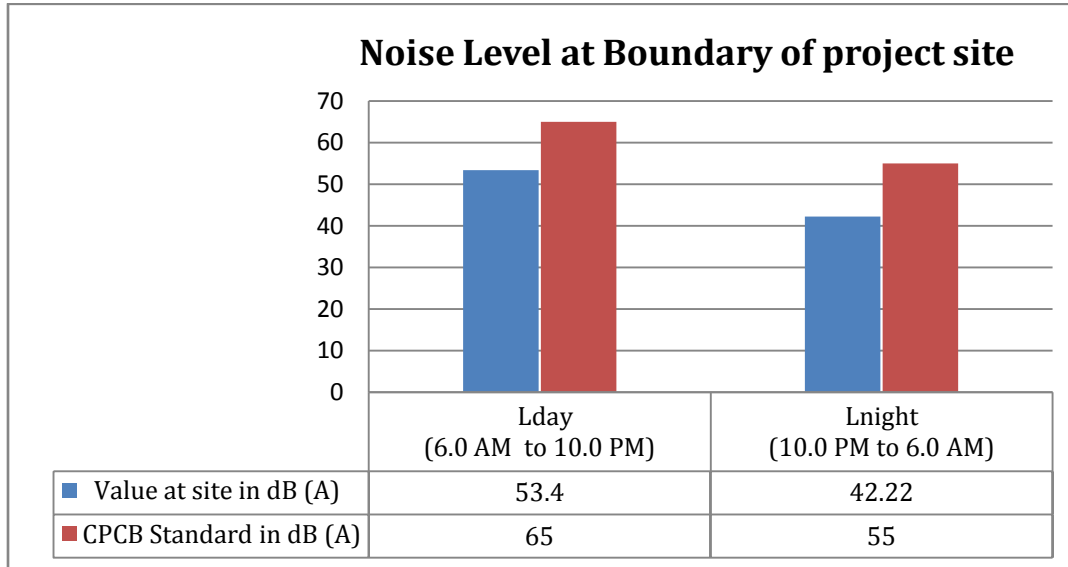
A. Ambient Air Quality Monitoring: Air Quality has been monitored in the month of March, 2020. The values of PM₁₀ and PM_{2.5} are 159.41µg/m³ and 120.25µg/m³ respectively. SO₂, NO_x, CO, Lead, Ozone, Benzene and Ammonia were also observed to be within the corresponding stipulated limits.



B. Ambient Noise Quality Monitoring: Noise measurements were carried out at the project site in March, 2020 both at the boundary of the project site and within the project site. Ambient standards with respect to noise for L_{day} and L_{night} have been measured and were found to be within the prescribed limits of CPCB.

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

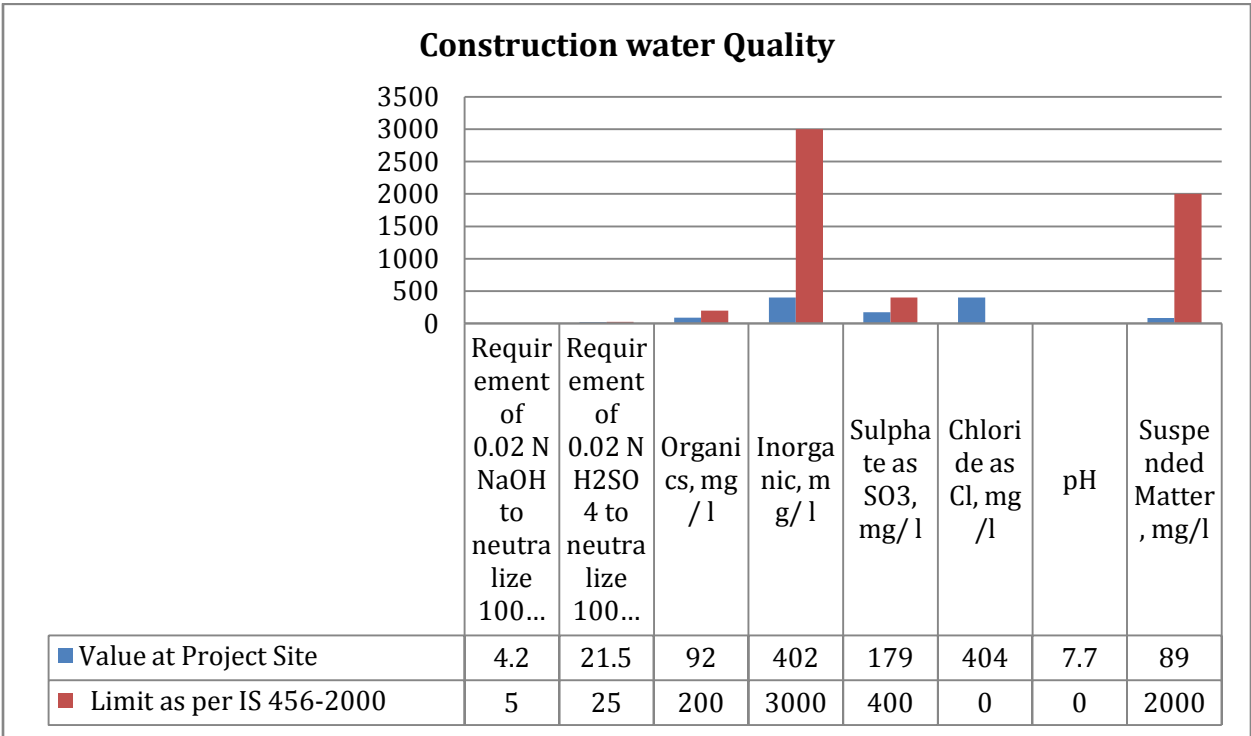
**JUNE
2020**



A. Water Quality Monitoring: Water quality has been monitored in the month of March 2020. STP Treated water used for construction and sprinkling purpose was taken for analysis. No significant observation was made during the monitoring and analysis. All the parameters are within the prescribed limits.

Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**



Project Name	Six Monthly Compliance report for Affordable Group Housing Project
Project Proponent	M/s Jotindra Steel & Tubes Ltd.
Project Address	Village Mewla Maharajpur, Sec-45, Faridabad, Haryana.

**JUNE
2020**

CHAPTER V: IMPLEMENTATION IN NEXT SIX MONTHS

Following measures will be taken in the next six months to comply with the conditions as mentioned in the Environmental Clearance letter:

1. Structure work will be initiated.
2. Water sprinkling will be increased so that fugitive dust emission gets reduced.
3. Safety training schedule will also be prepared.