

Context

With a mission of 'Transforming urban landscapes by creating sustainable communities', we uphold the philosophy of Urboonisation and build, promote and maintain dynamic, inclusive and environment-friendly ecosystems. Concurrently, we also seek to achieve the highest possible returns, to strengthen the faith reposed by our shareholders.

As part of our commitment we adhere strictly to our policies and legal requirements. We practice resource conservation, waste minimization and reduce environmental pollution.

As our partner in work it is therefore mandatory for our contractors also to follow our footsteps and adhere to our high stand. Therefore, we have laid out our mandatory requirement for our contractors to follow in the following section along with what we aspire our contractors to achieve while working with us.

Contractor Responsibilities on MLDL Site

- ✓ **Mandatory and non-negotiable requirements for energy and environment and pollution abatement:**
 - All the rule of the land (as per MLDL policy and applicable legal/ statutory environmental regulations as per Environmental Clearance and Consent To Establish/ operate) to be abide by. All the requirement as per the environmental compliance to be adhered to.
 - Initiatives for the following with help from MLDL to be implemented
 1. Energy: Conservation / reduction in consumption
 2. Water: Conservation / reduction in consumption
 3. Waste: Segregation and storage at designated place. Reduction reuse or recycle of the waste generation.
 - Data requirements as per MLDL requirements
- ✓ **Mandatory and non-negotiable requirements for social (OHS and Human Rights)**
 - As per our policy Child labour, Forced Compulsory Labour, workers' family onsite is not allowed
 - All mandatory PPE must be used as and when required.
 - Site hygiene and housekeeping should be maintained throughout the work tenure.
- ✓ **Aspirational requirements**
 - The contractor shall progressively move towards ISO 14001:2015 certification

Environmental management Plan: Protection of the Environment:

The Contractor shall take all reasonable steps to protect the environment (both on and off the Site) and to limit damage and nuisance to people and property resulting from pollution, noise and other results of his operations.

The Contractor shall ensure that emissions, surface discharges and effluent from the Contractor's activities shall not exceed the values indicated in the Specification and shall not exceed the values prescribed by applicable Laws.

The Contractor shall follow the Developer's Environment Management System (EMS) established at site. The Contractor shall read Developer's- Sustainability Policy, Integrated EMS Policy, Standard Operating Procedures, and relevant documents prior to commencement of Works. Developer will give necessary awareness to the contractor's personnel on EMS and Green building implementation requirements at site. Specific details are provided herewith:

- a) Existing numbered trees should be maintained in healthy condition till final handover of site by contractor. No damage to existing trees due to construction activities should be done. Any damage and cost implication due to damage should be borne by contractor.
- b) No dry wood should be used in site labour camps area as burning fuel.
- c) All building material like broken bricks, tiles and damaged shuttering material should be reused by contractor at suitable work areas. Unused or damaged/broken bricks, tiles, glass, wooden frames, shutters, steel etc. and shuttering material should either be reused up to max possible or donated or sold to another party for reuse. All records related to reuse/sale like challans etc are to be kept by the contractors and submitted to the Developer. These initiatives are towards sustainable development and contractors should perform all as stated at his own cost.
- d) Avoiding spillage of oil over the soil in workplace.
- e) If batching plant is established at site, its Consent to operate to be in place there should be a waste water treatment system installed along with the plant at site. Treated water should be reused in construction after approval from In charge QA at site.
- f) Existing well if any should be properly covered. As per the design intent or execution teams instructions
- g) for existing well/ bore well, (post confirmation of CGWA permissions) Optimum use of bore well water – if permitted under Contract - should be done by contractor, avoiding wastage. Water meter should be installed in all bore wells and record of water drawn should be maintained on monthly basis and same should be reported to Project Manager and/or Developer.
- h) All necessary precaution should be taken by contractor to avoid ground water table contamination.
- i) Hygiene at labour camp should be maintained. Proper sanitation facility for labours should be established. Developer and/or Engineer has the right to inspect the labour colony any time and instruct

contractor to modify /upgrade the condition of labour camp at any time during the tenure of the project. Temporary surface drainage should be provided in bathing and washing areas at labour camps.

j) Optimum utilization of electricity should be done, by planning electricity cut off in labour camps every day when not required as labour camps are empty during working hours.

k) The contractor will share data and take measures/initiatives to adhere to MLDL Sustainability requirements as provided in the Sustainability SOPs (list enclosed below).

l) Environment management plan (EMP) to be implemented on site as per the set frequency mentioned in the EMP and to be monitored annually.

Mitigation of the significant construction and operational environmental impacts are provided below:

Site Clearing:

Dos:

- The Contractor shall at all times carefully consider what machinery is appropriate to the task while minimising the extent of environmental damage.
- Topsoil shall be cleared of woody vegetation, and specifically requirements of retention of exotic vegetation if any, trees to be preserved, before ripping and removing in consultation with MLDL sustainability team.
- The topsoil is regarded as the top 200 mm of the soil profile and to be covered with Green netting material or geotextile sheets • Topsoil is to be handled twice only – once during clearing and stockpiling & once during rehabilitation • The topsoil, including the existing grass cover is to be shallowly ripped (only the depth of the topsoil) before removal. This is to ensure that organic plant material, and the natural seed base is included in the stripping process.
- The Contractor shall apply soil conservation measures to the stockpiles to prevent erosion. This can include the use of erosion control fabric or grass seeding
- To prevent soil erosion on the site, contractor to implement sedimentation trenches and basin prior to the monsoon

Donts

- Soil stockpiles shall not be higher than 2.5m or stored for a period longer than one year. The slopes of soil stockpiles shall not be steeper than 1 vertical to 2.5 horizontal.
- No vehicles shall be allowed access onto the stockpiles after they have been placed.
- Stockpiles shall not be allowed to become contaminated with oil, diesel, petrol, garbage or any other material, which may inhibit the later growth of vegetation.

Dust Abatement at site:

Site operators need to demonstrate both:

- (a) control of 'visible' dust in particular besides
- (b) fine dust from activities within their premises.

Dust abatement due to construction and transport activities can also include the following:

Do's:

- Monitor movement of vehicles (incoming/outgoing) - Regular check and maintenance of vehicles (all need valid PUC)
- Prevent vehicle idling during loading and unloading.
- Smooth movement of incoming & out going vehicles / trucks
- Earmark areas for parking vehicles
- Regular water sprinkling on pathways for dust suppression – use of 'treated waste water' (preferably from STP) in sprinklers for dust suppression
- Cover materials with tarpaulin in case of sand/cement
- Topsoil preservation covering with vegetation

Don'ts:

- Transportation of materials and waste should be done in covered vehicles to prevent fugitive dust emission.
- Don't use fresh water for dust suppression

Water pollution management:

Do's

- Avoid excavation during monsoon season
- Take adequate care should be taken to avoid soil erosion
- To prevent surface and ground water contamination by oil/grease, leak proof containers should be used for storage and transportation of oil/grease. The floors of oil/grease handling area should be kept effectively impervious. Any wash off from the oil/grease handling area or workshop shall be drained through impervious drains, Clarifiers or oil/water separators shall be constructed and effluents should be treated appropriately before releasing it.
- Construction activities generate disturbed soil, concrete fines, oils and other wastes. On-site collection and settling of storm water, prohibition of equipment wash downs, and prevention of soil loss and toxic releases from the construction site are necessary to minimize water pollution.
- All stacking and loading areas should be provided with proper garland drains equipped with baffles to prevent run off from the site to enter any water body

Minimizing water consumption

Do's:

- Contractor must take measures to reduce water consumption for curing. Bunding must be created to minimize wastage
- Reuse of collected rain water for various purposes as permitted by MLDL team

Fauna and Flora

Do's:

- Natural vegetation shall be kept in as undisturbed a state as possible. Special attention shall be paid to preserve trees and plant communities in conjunction with the design plan.
- Indigenous plants or wild animals (including reptiles, amphibians or birds etc.) may not be damaged or harmed.
- Report all incidents of harm to any animal or natural vegetation (apart from the agreed vegetation areas) must be reported to the MLDL project manager.
- **30 feet barricading/ whichever is stringent as per the local bye laws**
- **Stack height to be provided as per the CTE conditions**
- **Environment parameters monitoring to be done on a monthly basis/ as per EC/ CTE conditions for Air, water, waste and noise parameters**

Spoil Material

- All suitable materials excavated shall be used in the construction of the works. Quantities used at site must be noted.
- All unsuitable and surplus spoil rock shall be removed from the site to govt approved designation dumping site or sites, as per instructions of Project/Site Manager. Quantities sent to dumping site to be noted.
- No dumpsite shall be used without the prior written approval of the Project/Site Manager.
- No spoil material shall be stockpiled in violation of any legal requirement or to obstruct any watercourse or drainage channel.

Site Hygiene, Clean Up and Rehabilitation

Dos:

- Contractor must ensure regular housekeeping so that no material is waste or causes safety hazard
- Contractor must ensure labelling of waste bins to ensure that construction and demolition wastes as per
- The Contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed.
- The construction site shall be cleared, cleaned and rehabilitated to the satisfaction of the MLDL project manager, prior to revegetation.

Don'ts:

- Contractor must not leave materials in a haphazard fashion
- No material of value will be wasted due to poor housekeeping

Waste management

Dos:

- Recycled aggregates will be used for filler application, and as a sub-base for road construction. Mixed debris with high gypsum, plaster, shall not be used as fillers, as they are highly susceptible to contamination, and will be given to recyclers.
- Construction contractors shall remove metal scrap from structural steel, piping, concrete reinforcement and sheet metal work from the site. A significant portion of wood scrap can be

reused on site. Recyclable wastes such as plastics, glass fiber insulation, roofing etc shall be sold to recyclers.

Record keeping

- Data as per the following table must be provide to the project manager with evidence as per mentioned frequency:

Data	Detail	Frequency	Evidence
Diesel consumption	Data for diesel consumption to be provided bifurcated as per use (formats to be provided by MLDL)	Monthly	Diesel purchase bills
Electricity consumption	Electricity consumption is to be provided bifurcated as per use (formats to be provided by MLDL)	Monthly	Electricity bill/Meter reading register (incase separate meter is not available see annexure 1)
Water consumption	Water consumed from different sources (formats to be provided by MLDL)	Monthly	Purchase bill
Waste Generated	a. Quantity of waste generated by type b. Written information on destination of waste (where the waste is taken to) c. Written information on disposal method of waste (landfill/reuse/recycle) d. Distance of the treatment/landfill/reuse/recycle facility	Monthly	
Material Purchased	Materials purchased by weight or volume	Monthly	Purchase bill/SAP entry

Any other data requirement as the need arises.

All payments shall be released only if the mandatory and non-negotiable requirements for environment, energy and social criteria are meet.

Annexure 1.

In case there is no separate meter available the information to be provided by the contractors as per the table below (names of the equipment are indicative and not exhaustive; the project SPOC should add more equipment as required)

Name of the contractor				
Equipment	Crain	Drilling machine	Light	Fan
Quantity				
Wattage				
Unit	Watt			
Total Wattage	Formula: (Quantity x Wattage)			
consumption of 1 Hr/day-Kwhr	Formula: Total wattage/1000			
Consumption @ 8 Hrs/ Day	Formula: (consumption of 1 Hr/day-Kwhr)*8			
Total for 30 days	Formula: (Consumption @ 8 Hrs/ Day)*30			
Rate				
Amount for Month	Total for 30 days * Rate	Total for 30 days * Rate	Total for 30 days * Rate	Total for 30 days * Rate

List of SoPs:

1. EMS.A.01 Procedure for Significant aspect identification
2. EMS.A.02 Environmental Management Program
3. EMS.A.03 Environmental Monitoring
4. EMS.A.04 Statutory Requirement
5. EMS.A.05 External & Internal Communication
6. EMS.A.06 Procedure for Top Soil
7. EMS. A. 07 Environmental Emergency and response plan
8. EMS.A.08 Setting of Objective & Target
9. EMS.A.09 Operational Control
10. EMS.A.10 Hazardous waste management