



MAZAGON DOCK SHIPBUILDERS LIMITED

(Formerly known as Mazagon Dock Ltd.)

CIN : U35100MH1934GOI002079

(A Government of India Undertaking)

Shipbuilders to the Nation

Dockyard Road, Mazagon,

Mumbai 400 010.

INDIA

**Creation of New Canteen Facilities at
Ground, 1st & 2nd Floor of Service Block
Building (Phase-III), NY, MDL.**

Scope of Work

Table of Contents		
Clause No.	PERTICULARS	PAGE No.
1.	SCOPE OF WORK	02

1. SCOPE OF WORK:

The Scope of work in brief are as under.

1. MDL intends to provide canteen for workers on the ground, first and second floor of Service Block Building which is approximately 300 Sq.M.
Each floor will have capacity to seat 160 workers.
2. The work consists of demolition of existing internal walls, dismantling of existing flooring, wall tiles, doors and windows, making provision for new doors and windows in existing walls as per architectural layout wherever required.
3. Work consists of Civil & Interior works including , masonry, plastering, painting, flooring & cladding, doors & windows, waterproofing, customized furniture and specialised Kitchen equipments, False ceiling, Structural Steel work viz. External Steel staircase and entrance canopy, installation of Dumb waiter, Site development, Plumbing, Mechanical Ventilation, Electrical work, etc. are within the scope of this tender in accordance with the “drawings” and “Bill of Quantities”.
4. Canteen kitchen is designed to arrange and serve pre-prepared food with separate areas for preparation, serving and washing.
Preparation and sorting counters, refrigerator and hot boxes to act as an area suitable to collect prepared food being delivered form the centralised kitchen.
Provision of counter top serving area, Bain Maries, wash area with used utensil collection counter, wash troughs, clean utensil racks, garbage disposal system and other equipments should be in accordance with the specifications given in BOQ.

It includes providing, fixing, furnishing all materials, labour-, tools and equipment and management of necessary and incidental to the construction and completion of the work. All work, during its progress and upon completion, shall conform to the lines, elevations and grades as shown on the drawings furnished by the Architects. Should any detail essential for efficient completion of the work been omitted from the drawings and specifications, it shall be the responsibility of the Contractor to inform the Employer/Architects and to furnish and incorporate all such details with Employer’s/Architect’s concurrence, so that upon completion of the proposed work, the same will be acceptable and ready for use.

2. ELECTRICAL WORKS

SCOPE OF WORK

The scope of work shall cover the supply, Installation, Testing & Commissioning of the electrical equipment like Distribution Boards, Cables, Switchgear, Lighting fixtures, Earthing, Fire Alarm, Public Address, Telephone/data system, Rodent Repellent.

1.0 DISTRIBUTION BOARDS

The scope of work for the Distribution Board includes only Re-Wiring, dressing of Existing Distribution Boards as according to the Wiring distribution shown in SLD for Canteen floors.

Contractor has to submit the 3 sets of as built drawings & drawings shall be provided by the contractor after successfully completion & commissioning of entire electrical system.

2.0 LT XLPE CABLES

The scope of work shall cover supply, laying, testing and commissioning of medium voltage XLPE cables.

The specification provided in the technical specs gives the general requirement of cables. However, it is the responsibility of the vendor to take the joint measurement and obtain client's approval before the placement of orders to the main supplier / manufacturer.

Contractor shall submit the as built drawing of the cable laying drawing. Also,

The supplier shall submit following:

1. Data sheet indicating results of tests.
2. Test report

3.0 INTERNAL WIRING

The scope of work shall covers, definition of point wiring, system of wiring and supply, installation, connection, testing and commissioning of point wiring for light points, ceiling fan points, exhaust fan points, convenience socket outlet points, power socket outlet points, bell outlet points etc. including fixing of light fixtures, ceiling fan, exhaust fan, wall fan, bell etc.

4.0 ELV WIRING

The scope of work shall cover the supply, installation, connection, testing and commissioning of the wiring for Telephone / Computer / Fire detection / Public Address system. Scope include supply of telephone cables, Multiple flexible wires, Shielded Wire, CAT-6 UTP computer signal wire, Junction boxes, Outlet boxes, and other related accessories required to complete the wiring and installation.

5.0 LIGHT FIXTURE

The scope of work shall cover the supply, installation and testing of various types of LED light fixtures are used in the project. Also,

As per of the proposal the bidder furnish relevant descriptive and illustrative literature on lighting fixtures and accessories and following drawings/ data for the respective lighting fixtures:-

- 1 Dimensional Drawings
- 2 Mounting details cable entry facilities and weights.
- 3 Light distribution diagrams (Zonal & Isokandora)
- 4 Light absorption and utilization factors.
- 5 Lamp output V/S temp. curves.\

6.0 EARTHING SYSTEM

The scope shall cover the Design, assembling, testing, painting, supply, delivery at site with all related accessories as per the specifications as specified in the technical specification sheet. Compliance with the provisions of this specification shall not relieve the Bidder of the responsibility of furnishing apparatus and accessories of proper design, electrically and mechanically suited to meet the operating requirements under the specified service conditions and be suitable for the purpose of which they are intended.

7.0 FIRE ALARM SYSTEM

The scope of work shall cover the Supply, installation, testing & commissioning of **Intelligent Analog Addressable** Fire Alarm System in accordance with the specifications, drawings & schedule of quantities. Microprocessor based addressable and intelligent (analog), fire detection and alarm system complete with addressable, intelligent (analog) heat and smoke sensors, Addressable Manual call point and hooters. The distributed Intelligent Fire Alarm Repeater Panel shall be provided.

The Fire Alarm Repeater Panel shall have the facility to integrate an emergency voice alarm communication system. Digitally stored message sequences shall notify the building occupants that a fire or life safety condition has been reported. Message generator(s) shall be capable of automatically distributing up to eight (8) simultaneous, unique messages to appropriate audio zones within the facility based on the type and location of the initiating event.

The supplier shall submit following:

- a. GA drawing.
- b. Data sheet indicating results of tests.
- c. Test reports.
- d. O & M manuals.

8.0 PUBLIC ADDRESSABLE SYSTEM

The scope of work under this head shall include designing supplying and installing of Public Address System. The work under this system shall consist of furnishing all materials, equipment's and appliances and labour necessary to install the said system, complete with Speakers, Amplifiers, Mike and Zone selection Panel.

The PA System is designed to serve the multipurpose of playing music, making general announcement or to transmit the fire tone under fire condition.

9.0 RODENT REPELLENT SYSTEM

The scope of work shall cover the supply, installation, testing and commissioning of RODENT REPELLENT system with relevant equipment and instruments. The work is to be carried out as per technical specification, BOQ & Drawings.

10.0 TELEPHONE & DATA WIRING

The scope of the work shall cover the Wiring of Data & telephone points with cat6 cable in PVC conduits from existing network of the building. The work is to be carried out as per the technical specification, BOQ & Drawings. Scanning of Data point to be included in installation of Data point.

11.0 DISMANTLING OF EXISTING FIXTURES, SWITCHGEARS & CABLES ETC.

The scope of work shall cover the dismantling of existing, Light fixtures, switchgears, distribution boards, switch boards, underground cables, cable trays etc. Removed items shall be handed over to MDL.

Note: Contractors to Submit all materials technical specification/GA/Catalogue for approval before ordering it.

3. HVAC WORKS

To be added in Specification (Enclosure 10)