

Annex 9 – ODN Technical Specifications

Specifications for S , M and L Outdoor Distribution Box (ODB)

NEW ITEM

1.1. Outdoor Distribution Box (ODB) Small, Medium and Large Sizes

1. Long Term Performance

- a. The material supplied should be capable of withstanding the typical service conditions in Lebanon for a period of 25 years without determinant to the operation and maintenance characteristics.
- b. The materials should be designed, manufactured and packed so that the exposure to the conditions of storage, transport inside and outside Lebanon and the installation in the environment will not affect the physical characteristics.

2. Type Approval

- a. A sample should be provided for test.
- b. All tests should be performed and submitted if requested.
- c. All Associated International Specifications should be respected.

3. General Requirements

- a. Delivered materials should be free from burrs, sharp edges, or projections that may be hazardous to personnel.
- b. As a separate item a Pole Ring for proper drop distribution is needed.**
- c. All products should have the following details:
 1. Manufacturer's name (built in stamp).
 2. MoT/Ogero Label On the Door/Cover
 3. Accessories needed for Pole/Wall fixation

4. QUALITY ASSURANCE

1. QUALITY SYSTEM ACCREDITATION

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- a. Manufacturers may be required to supply a copy of the Quality Manual which shall be utilized for the manufacture and delivery of the supplied material complying with this specification, at the time of tender.
- b. OGERO/MOT may require the manufacturer to be accredited to this specification either by OGERO/MOT personnel or assessors acting on behalf of OGERO/MOT.

2. INSPECTION

- a. OGERO/MOT or its authorized representatives may inspect the Tenderer's facilities at any time for the purpose of Quality Assurance surveillance.
- b. If requested by OGERO/MOT the tenderer shall supply evidence of the quality of raw materials and components used in the manufacturing process.
- c. All supplied items manufactured to this specification may be inspected and tested by OGERO/MOT to check compliance.
- d. OGERO/MOT has the right to request proof of compliance with this specification, either by witnessing actual performance of this specification's prescribed tests and/or the provisioning of documented test results at the discretion of the inspector.
- e. In the case of a dispute, testing shall be performed by an independent authority at the expense of the tenderer.

5. RESERVED RIGHTS

OGERO/MOT cannot guarantee that any of the requirements, standards, regulations and conditions of this specification are not covered or protected by copyright or patent of a third party. OGERO/MOT reserves the right to make changes to the specification without further notice.

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6. Components

	COMPLIANCE CHART		
	YES	NO	Alternative Solutions
The material used should be made of UV resistant self-extinguishing thermoplastic material			
Outdoor Pole / Wall mountable with related accessories .			
Cable entry shall be simple, fast and does not require special tool or special connectors. Both incoming and outgoing cable entry grommets shall be suitable to accept up to 4, 8 or 10 drop or indoor cables (Size 4, 8, 12 and 16 ports).			
Cable entry grommets shall be fixed properly to the opening of ODB.			
Equipped with a splice cassette, the Fiber Box should allow the splicing of a fiber optic cable to pigtails or to a splitter (splitter size to fit the FDB Size)			
The ODB must be able to accommodate one pre-connectorized splitter.			
One door/cover with locking options for flexibility and security. The splitter should be connected to SC/APC adapters/couplers			
The ODB shall have durable numbering labels providing clear fiber identification between the outgoing cable entry ports and the SC/APC adapters			
The ODB shall be equipped with double side SC couplers.			
Fiber cable entry at the bottom.			
The design of the ODB shall comply with at least IP55 in accordance to IEC 60529 Ed.2.1 standard (Degrees of Protection Provided by Enclosures).			
The box should have an enough storage area for micro modules and can accommodate the required number of customers drops.			
The Outdoor ODB shall be capable to tolerate temperature range (-5°C to 55°C) and relative humidity of (80% at 30°C).			