



## REQUEST FOR PROPOSAL (RFP)

### Supply of Wires and Cables

#### 1. INTRODUCTION

The Buyer invites bids from Original Equipment Manufacturers (OEMs) for the supply of wires and cables for the project mentioned below. The scope of this RFP is limited to electrical and communication cables only.

#### 2. RFP & BID DETAILS

Field	Details
RFP Reference No	RFP-IND-CABLE-2025-02
Project Name	Process Plant Electrical & Instrumentation Cabling
Issuing Authority	Public Sector / Infrastructure Authority
Bid Type	Two-part bid (Techno-Commercial + Price)
Bid Submission Deadline	30 August 2025
Delivery Location	Vadodara, Gujarat
Delivery Schedule	Within 4 months from Purchase Order
Warranty	12 months from installation or 18 months from dispatch

#### 3. SCOPE OF SUPPLY

The bidder shall manufacture, test, inspect, pack, and deliver the wires and cables as specified in the technical requirements below.

#### 4. TECHNICAL REQUIREMENTS – PRODUCT SPECIFICATIONS

#### **4.1 Instrumentation Cable**

Parameter	Requirement
Category	Instrumentation Cable
Cable Type	XLPE Insulated
Armored	Yes
Number of Pairs	10 Pair
Conductor Material	Copper
Conductor Size	1.5 sqmm
Conductor Standard	IS / IEC
Insulation Material	XLPE
Sheath Material	FRLS PVC
Voltage Rating	300 V
Applicable Standards	IEC 60502
Required Length (m)	3,000

The cables shall be suitable for continuous operation under Indian climatic conditions with ambient temperature up to 50°C and shall comply with relevant IEC and IS standards. Preference will be given to products with proven deployment in similar infrastructure projects.

#### **4.2 33 kV XLPE Armored Power Cable**

Parameter	Requirement
Category	Medium Voltage Power Cable
Cable Type	XLPE Insulated
Armored	Yes
Number of Cores	3 Core
Conductor Material	Aluminium
Conductor Size	240 sqmm
Conductor Standard	IS 8130 / IEC 60228
Insulation Material	XLPE
Sheath Material	PVC
Voltage Rating	33 kV

Applicable Standards	IS 7098 (Part 2) / IEC 60502
Required Length (m)	1,200

The cables shall be suitable for continuous operation under Indian climatic conditions with ambient temperature up to 50°C and shall comply with relevant IEC and IS standards. Preference will be given to products with proven deployment in similar infrastructure projects.

## **5. TESTING & ACCEPTANCE REQUIREMENTS**

- Routine Tests
- Acceptance Tests
- High Voltage Test (where applicable)
- Insulation Resistance Test
- Mechanical Tests as per applicable standards

## **6. COMMERCIAL REQUIREMENTS**

The bidder shall submit a price bid indicating unit price per meter, total material cost, and cost of mandatory tests. Pricing data may be indicative or synthetic for evaluation purposes.

## **7. DATA & SYSTEM ASSUMPTIONS**

- This RFP is a representative sample created for evaluation and demonstration purposes.
- OEM product datasheets shall be used to validate detailed specifications not explicitly stated.
- Product pricing and test pricing may be based on synthetic or indicative data.

## **8. DECLARATION**

The bidder confirms compliance with all technical, testing, and commercial requirements specified in this RFP.

Authorized

Signatory:

Date: