

# RFP 1 – AP PWD LV Cables

DEPARTMENT OF PUBLIC WORKS, STATE OF ANDHRA PRADESH Notice Inviting Tender (NIT) NIT No.: AP-PWD/ELC/2025/014 Name of Work: Supply of Low-Voltage (LV) Cables for State Secretariat Office Complex, Amaravati

1. INTRODUCTION The Department of Public Works (Electrical Wing), Government of Andhra Pradesh, invites sealed bids from eligible manufacturers/authorised dealers for the supply of low-voltage (LV) power and control cables for the State Secretariat Office Complex, Amaravati.

2. IMPORTANT DATES Issue of RFP: 10 December 2025 Last date & time for submission of bids: 05 March 2026, 15:00 Hrs Bid opening (Technical): 07 March 2026, 11:00 Hrs

3. SCOPE OF SUPPLY – BOQ SUMMARY The bidder shall supply the following types of cables in accordance with the detailed technical specifications and standards mentioned in this document:

Item 1: 1.1 kV grade, XLPE insulated, PVC sheathed, armoured, aluminium conductor, 3.5 Core x 240 sq.mm, IS 1554 (Part 1), for underground laying. Quantity: 4,000 m

Item 2: 1.1 kV grade, XLPE insulated, PVC sheathed, armoured, copper conductor, 4 Core x 35 sq.mm, IS 7098 (Part 1), for feeder panels. Quantity: 2,500 m

Item 3: 1.1 kV grade, PVC insulated, PVC sheathed, unarmoured, copper conductor, 2 Core x 2.5 sq.mm, IS 694, for lighting circuits. Quantity: 12,000 m

4. TECHNICAL REQUIREMENTS – KEY PARAMETERS Voltage Rating: 1.1 kV (U0/U) Conductor Material: Copper/Aluminium (as specified in BOQ item) Conductor Class: Class 2 stranded Conductor Size Range: 2.5 sq.mm to 240 sq.mm Number of Cores: 2–4 cores Insulation: XLPE or PVC, as per applicable IS standard Sheath Material: PVC, Type ST2 or equivalent Armouring: Galvanised steel strip/wire armour as applicable Insulation Resistance: As per IS 7098 / IS 1554 / IS 694 Temperature Rating: 90°C continuous for XLPE; 70°C for PVC Short Circuit Rating: As per applicable IS standard

5. TESTS AND INSPECTION The following type and routine tests shall be carried out as per relevant IS standards: - Conductor resistance test - High voltage withstand test - Insulation resistance test - Partial discharge test (for XLPE) - Sheath integrity test - Overall dimension and weight check

All cables shall be offered for pre-dispatch inspection at the manufacturer's works. Factory acceptance tests (FAT) shall be carried out in the presence of the Employer's representative, if deputed.

6. COMMERCIAL TERMS (SUMMARY) Delivery Period: Within 8 weeks from the date of purchase order. Delivery Location: State Secretariat Office Complex, Amaravati. Payment Terms: 80% on receipt and acceptance of materials at site; 20% after submission of all test certificates and successful installation checks. Bid Validity: 120 days from date of bid opening.

7. BID SUBMISSION Bids shall be submitted in two-cover system: Technical Bid and Price Bid, in separate sealed envelopes, super-scribed accordingly, to the address mentioned below.

Executive Engineer (Electrical) Department of Public Works Secretariat Office Complex, Amaravati Email: eepwd.electrical@ap.gov.in