



**GUJARAT INDUSTRIES POWER COMPANY LIMITED
SURAT LIGNITE POWER PLANT (SLPP)**

VOLUME II — Electrical Specification (Package-C)

Design, Engineering, Supply, and Construction of Package A, B, C & D
**New Lignite Feeding System, Associated Works, Contingency Feeding
Arrangement & Dismantling**

Tender No.: GIPCL/SLPP/R&M/LHS/FB-RE/LOCATION/EPC/2026

Date of Issue: July 2026

Issued by:

CGM (THERMAL)

Gujarat Industries Power Company Limited

Surat Lignite Power Plant (SLPP), Village: Nani Naroli, Taluka: Mangrol, Dist.: Surat,
Gujarat



Package C — Contingency Surface Feeder Arrangement (Electrical)

1. Construction Power:

415V, 3-Phase 3-wire, 50 Hz supply to be taken from nearby BCN-M1A pump house ACDB. Contractor to extend power from this point with necessary electrical protections to location with required transformer, power distribution boards, lighting provision etc.

2. Electrical Scope & Brief Description of Work:

The scope of Bidder shall include design, engineering, supply, loading/unloading, storage in weatherproof shed at site, erection, testing and commissioning in presence of OEM engineer of all electrical equipment required under their scope for New Lignite Feeding System.

The major equipment/system covered under scope of work shall be as follows:

- a) Procurement and laying of the cable from NEW PCH to designated location. A suitable capacity outgoing feeder from existing New PCH LT MCC shall be dedicated for provide power supply of 3-ph 3 wire.
- b) Laying of cable of entire length with proper dressing and termination shall be in bidders' scope.
- c) A dedicated Air Conditioning container / cabin shall be provided to incorporate incoming power supply panel, VFD drive, instrument panel, IT network (if required) etc.
- d) Earthing for area. Chemical treated earth pit shall be provided for all the areas.
- e) Insulating mat as per latest standard for all the areas for all kind of panels.
- f) Start up and commissioning spares.
- g) Essential spares.
- h) All electrical interface of surface feeder with existing electrical system.
- i) Whenever or wherever 3-phase 4 wire power supply is required for any system or application then bidder to derive 3-phase 4 wire power supply from 3-phase 3-wire power supply system by providing required capacity isolation transformer and distribution board after approval from Client.
- j) Survey / audit shall be carried out for plant areas for classification of hazardous area and according to hazardous area classification category, electrical equipment shall be supplied and commissioned.
- k) Bidder shall take care about necessary safety aspects while designing any system or area or layout of the equipment outdoor / indoor considering safety



aspects to be taken care as per CEA / CERC / NGT Audit recommendations / Other government authority / Electrical inspector latest guidelines.

- l) The required no. of switch gears and panels being planned by the Bidder shall be provided and it shall be subject to approval of Owner/ Owner's Engineer. Similarly, layout of electrical premises shall be provided as per approval of Owner/ Owner's Engineer.
- m) Complete Electrical system with all its accessories cover under the scope and the scope also include any statutory approvals.

MANDATORY AND COMMISSIONING SPARE PARTS -ELECTRICAL

The Contractor shall supply the following mandatory spare parts as part of the Contract, to be handed over to GIPCL at the time of Taking Over Certificate (TOC). Commissioning spares shall be available at site before commencement of commissioning.

Mandatory Spare Parts — Electrical

Sr.	Item Description	Min. Qty.	Remarks
1	VFD	1 no. entire VFD	
2	VFD Driven Motor	1 no. Similar motor	
3	Any Special Switchgear required for operation & maintenance	1 no. of each type	