

**TELANGANA STATE POWER GENERATION  
CORPORATION LIMITED  
1X800MW KOTHAGUDEM, TPS, STAGE-VII, UNIT#12**

**VOLUME – IIB**

**TECHNICAL SPECIFICATION  
FOR  
*MV CABLE TERMINATION & JOINTING KIT***

**SPECIFICATION NO: *PE-TS-410-507-E015, R0***



**BHARAT HEAVY ELECTRICALS LIMITED  
POWER SECTOR  
PROJECT ENGINEERING MANAGEMENT  
NOIDA, UP (INDIA) – 201301**



TECHNICAL SPECIFICATION FOR  
MV CABLE TERMINATION & JOINTING KITS

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**Total No. of Sheets=20(Including Covers and Separators)**

IT IS CONFIRMED THAT OUR TECHNICAL OFFER COMPLIES WITH THE SPECIFICATION IN TOTO & THAT THERE ARE NO TECHNICAL DEVIATIONS.

-----  
BIDDER'S STAMP & SIGNATURE



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**INSTRUCTIONS TO BIDDERS FOR PREPARING TECHNICAL OFFER**

1. Two signed and stamped copies of the following shall be furnished by all bidders as technical offer :
  - a. Unpriced Price Schedule (Annexure-I: BOQ, as enclosed with the specification) with "Quoted" word against each item.
  - b. A copy of this sheet ("Instructions to Bidders for Preparing Technical Offer").
  - c. A copy of previous sheet ("Contents").
2. No other technical submittal such as copies of type test certificates, data sheets, write-up, drawing, technical literature, etc. is required during tender stage. Any such submission, even if made, shall not be considered as part of offer.
3. No comments/ additions/ deletions shall be made by the bidder on the signed & stamped copy of the specification. Any such changes made by the bidder shall not be considered.
4. Confirmations/ comments (if any) regarding delivery schedules shall be furnished as part of the commercial offer. Any reference in the technical offer / covering letter shall not be considered by BHEL.
5. Any comments/ clarifications on technical/ inspection requirements furnished as part of bidder's covering letter shall not be considered by BHEL, and bidder's offer shall be construed to be in conformance with the specification.
6. Any changes made by the bidder in the price schedule with respect to the item description/ quantities, notes etc. from those given in Annexure-I of specification [Bill Of Quantities] shall not be considered (i.e., technical description, quantities, notes etc. as per specification shall prevail).

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BIDDER'S STAMP & SIGNATURE



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SECTION – A

SCOPE OF ENQUIRY



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SCOPE OF ENQUIRY

- 1.0 This specification covers the Design, Manufacture, Inspection and Testing at Manufacturer's works, proper packing and delivery to site of **MV Cable Termination & Jointing Kits** as mentioned in different sections of this specification for 1x800 MW KOTHAGUDEM TPS, STAGE-VII, UNIT #12.
- 2.0 It is not the intent to specify herein all the details of design & manufacture. However, the equipment shall conform in all respects to high standards of design engineering and workmanship and shall be capable of performing in continuous commercial operation at site conditions.
- 3.0 The general terms and conditions, instructions to bidders and other attachment referred to elsewhere are hereby made part of the tender specification.
- 4.0 The bidder shall be responsible for and governed by all requirements stipulated hereinafter.
- 5.0 Bidder shall confirm total compliance to the specification without any deviations from technical/quality assurance requirements stipulated.
- 6.0 The documents shall be in English Language and MKS system of units.



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PREAMBLE

1.0 The tender document contains two (2) volumes. The bidder shall meet the requirements of all the two volumes.

1.1 Volume-I (CONDITIONS OF CONTRACT)

This consists of four parts as below:-

- Volume-IA : This part contains instructions to bidders for making bids to BHEL.  
Volume-IB : This part contains general commercial conditions of the tender & includes provision that vendor is responsible for the quality of item supplied by their sub-vendors.  
Volume-IC : This part contains special conditions of contract.  
Volume-ID : This part contains commercial conditions for erection & commissioning site work, as applicable.

1.2 Volume-II TECHNICAL SPECIFICATIONS

Technical requirements are stipulated in Volume-II which comprises of :-

- Volume-IIA : General Technical Conditions  
Volume-IIB : Technical Specification including Drawings, if any.

1.2.1 Volume-IIB

This volume is sub-divided into following sections:-

- Section-A : This section outlines the scope of enquiry.  
Section-B : This section provides "Project Information".  
Section-C : This section indicates technical requirements specific to the contract, not covered in Section-D.  
Section-D : This section comprises of technical specifications of equipments complete with data sheet A.  
Data Sheet – A: specifies data and other requirements pertaining to the Equipment.

2.0 The requirements mentioned in Section-C / Data Sheets-A of section-D shall prevail and govern in case of conflict between the same and the corresponding requirements mentioned in the descriptive portion in Section-D.



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**SECTION – 'B'**

**PROJECT INFORMATION**

## VOLUME : IIA

### SECTION-II

#### PROJECT SYNOPSIS AND GENERAL INFORMATION

##### 1.00.00 INTRODUCTION

The proposed 1x800 MW Kothagudem Thermal Power Station (KTPS), Stage-VII, Unit-12 would be set up by Telangana State Power Corporation Ltd. (TSGENCO) at Kothagudem, Telangana. The proposed Power Plant will be installed adjacent to the existing D colony of Kothagudem Thermal Power Station, at Kothagudem.

The Bidder shall acquaint himself by a visit to the site, if felt necessary, with the conditions prevailing at site before submission of the bid. The information given here in under is for general guidance and shall not be contractually binding on the Owner. All relevant site data /information as may be necessary shall have to be obtained /collected by the Bidder.

##### 2.00.00 APPROACH TO SITE

Site is located in the existing D Colony of Kothagudem Thermal Power Station, which is at a distance 30 km from temple town of Bhadrachalam and 300 km from Hyderabad by road. The Nearest railway station is Bhadrachalam Road (Known as Kothagudem) at a distance of 12 km. Kothagudem- Bhadrachalam National Highway branches off to the power station site near village Paloncha.

##### 3.00.00 LAND

Land is primarily required for the main plant & auxiliaries (BTG) and balance of plant (BOP) like ash handling, coal storage, cooling tower, switchyard etc., which is available within the existing plant boundary.

The existing colony is to be dismantled, and the land of about 137 acres will be used for the main plant building, water facilities, switchyard, coal handling etc. The raw water reservoir will be located adjacent to the existing raw water reservoirs.

230 acres of land required for Ash Dyke will be procured. Land is available for staff colony, which is to be constructed by the EPC contractor.

##### 4.00.00 SOURCE OF COAL

100% Imported and Blended coal (50% imported + 50% indigenous) will be used. Indigenous coal shall be sourced from Suliyari coal mines, Madhya Pradesh.

5.00.00 **SOURCE OF WATER**

Source of water (total quantity of water is 2192 m<sup>3</sup>/hr) is Godavari River near Burgampahad & water will be pumped through existing GRP pipe line (of length approx. 26 km).

6.00.00 **ASH DISPOSAL AREA**

Ash shall be dumped in the ash dump area which will be about 9 km from plant. The ash dyke area of 230 acres is adequate for 1x800 MW unit as per MOEF norms.

7.00.00 **SALIENT DESIGN DATA**

7.01.00 Meteorological data of site is given below:-

Elevation above MSL	:	89 m
Monthly highest temperature	:	44.9 °C
Monthly lowest temperature.	:	12.9 °C
Rainfall		
	Average.:	1031 mm
	Max. :	100 mm/ hr
Mean Wind speed	:	5.8 kmph
Relative Humidity		
	Max :	82%
	Min :	35%
Seismic Zone	:	Zone-III as per IS- 1893 (Part-IV)

[Climatological data of Khammam is attached for reference].

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SECTION -C  
SPECIFIC TECHNICAL REQUIREMENTS

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**1.0 SCOPE OF ENQUIRY**

- 1.1 This enquiry covers the supply of **MV Cable Termination & Jointing Kits** conforming to this specification.
- 1.2 General technical requirements of the MV Cable Termination & Jointing Kits are indicated in Section-D. Project specific technical/ quality requirements / changes are listed in Section-C.
- 1.3 The stipulations of Section-C, followed by those of Data Sheet-A shall prevail in case of any conflict between the stipulations of Section-C, Data Sheet - A & Section-D.

**2.0 BILL OF QUANTITIES:**

- 2.1 Quantity requirements shall be as per **Annexure-I (Bill of Quantities (BOQ))** enclosed.

**3.0 SPECIFIC REQUIREMENTS:**

- 3.1 Technical:

<i>S. No.</i>	<i>Reference clause No. of Section D (if any)</i>	<i>Specific Requirement/ Change</i>
1.	Nil	Nil

- 3.2 Quality/ Inspection:

<i>S. No.</i>	<i>Reference clause No. of Section D (if any)</i>	<i>Specific Requirement/ Change</i>
1.	Nil	Nil



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**SECTION – 'D'  
TECHNICAL SPECIFICATION**



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**1.0 SCOPE OF ENQUIRY**

1.1 This specification covers the design, manufacture, inspection, testing at vendor's/sub-vendor's works, packing, forwarding, transportation and delivery to site of MV termination and jointing kits for cables as per the requirements specified in this specification.

1.2 Termination kits shall be of proven design and make, which have already been extensively used and fully type, tested. Make and type of the termination shall be to the approval of purchaser.

**2.0 CODES & STANDARDS**

2.1 The material, constructional features and various processes involved in manufacture shall comply with latest revision of relevant Indian Standards.

**3.0 DESIGN REQUIREMENTS AND CONSTRUCTIONAL FEATURES**

3.1 The termination/jointing kits shall be suitable for site ambient conditions and polluted atmosphere, and for storage without deterioration at ambient temperature specified in project information for the project execution period.

3.2 Termination kits shall be suitable for installation inside motor terminal boxes, metal clad switchgear, transformer terminal box etc. Each kit shall contain all necessary components, accessories and consumables to make a complete termination in such a way that no live parts of the terminals and connecting lugs are exposed.

3.3 Kits shall be complete with all accessories and consumables required for complete termination or jointing. Cable lugs for termination kits & jointing ferrules for straight through jointing kits shall form part of the kit. Cable lugs shall be of Aluminium & heavy duty type.

3.4 Termination and jointing kits shall have requisite stress relieving characteristics.

3.5 Termination and joints shall have provision for shield connection and earthing, wherever cable screening is specified.

3.6 All materials and components of the terminations/joints shall be suitable for and compatible with the type of cables for which the terminations/joints are intended.

3.7 Any surface treatment or sealants used to ensure environmental protection to the components of termination/joint or on the cable surface shall be non-tracking type and shall withstand the associated electric stress.

3.8 Cable jointing kits shall be suitable for directly buried cables/ Cables laid in trays in air.

2.9 Cable glands are excluded from the scope of supply of termination kit/ jointing kits.

**4.0 QUALITY / INSPECTION:**

4.1 All items to be supplied shall conform to type tests as per relevant standards and proven type.

4.2 The bidder shall furnish the reports of all the type tests carried out. These reports should be for the tests conducted either in government approved third party laboratory or witnessed by client (such as major utilities/ industries) on identical/ similar items to those ordered under this contract.

4.3 In case bidder is not able to submit report of type test(s), or in case type tests report(s) are not found to be meeting the specification/ relevant standard requirements, then all such tests shall be conducted under this



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contract by the bidder free of cost to BHEL, and reports shall be submitted for approval. No charges shall be paid for testing under such circumstances.

4.4 Irrespective of the bidder furnishing type test report as indicated above, BHEL may get type tests conducted as specified in Datasheet-A. Separate price shall be quoted for the conduction of type testing per lot, which shall be used for cost comparison.

4.5 Inspection and testing shall be as per approved Manufacturing Quality Plan, to be submitted by the supplier.

4.6 Bidder shall offer 6.6kV termination kits in place of 3.3kV termination kits, if the relevant type test certificates conducted in any govt./govt. Approved labs are not available. This change shall be brought out clearly on separate sheet as technical clarification.

**5.0 PACKING**

The material shall be packed to ensure protection against damage during transit, storage for prolonged periods and handling. Packing procedure shall be subject to the purchaser's approval.

**6.0 DELIVERY**

The delivery shall be as per NIT (Notice Inviting Tender).

**7.0 DOCUMENTATION**

7.1 Documents to be submitted by the bidder along with the bid.

a) A copy of sheet "Contents" with bidder's signature & company stamp

b) A copy of sheet "Instructions to bidders for preparing Technical offer" with bidder's signature & company stamp.

c) Unpriced copy of "Annexure-I (BOQ – Cum- Price Schedule for Cable Termination & Jointing Kits)" with bidder's signature & company stamp and "Quoted" Word against each item.

**No other documentation is required to be submitted as technical offer. Any information contained in other parts of the offer (e.g. covering letter, annexures, etc.) which is deviating from specification requirements in any way shall not be considered by BHEL as part of offer.**

7.2 Documents to be submitted by successful bidder after award of contract shall be as per Annexure-II.

7.3 Vendor drawing / document schedule for the project shall be as per Annexure – III.



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**DATASHEET A**

**SPECIFIC TECHNICAL REQUIREMENTS**

**1.0 TERMINATION KITS**

- 1.1 Voltage grade: 3.3 kV (U/E) / 11kV (U/E)
- 1.2 Application: Indoor/ Outdoor
- 1.3 Type: Heat-shrinkable / Tapex / Paracast / Parawrap
- 1.4 Sizes: As per BOQ-Cum-Price-Schedule (Ann-I)
- 1.5 Type testing conforming to As per IS 13573

**2.0 STRAIGHT THROUGH JOINTING KITS**

- 2.1 Voltage grade: 3.3 kV (U/E) / 11kV (U/E)
- 2.2 Type: Heat-shrinkable / Tapex / Paracast / Parawrap
- 2.3 Sizes: As per BOQ-Cum-Price-Schedule (Ann-I)
- 2.4 Testing requirement conforming to As per IS 13573

**3.0 BRIEF CABLE SPECIFICATION**

- 3.1 Voltage grade: 3.3 kV (U/E) / 11kV (U/E)
- 3.2 Conductor material: Aluminium H2 grade Class 2
- 3.3 Conductor screening material: Extruded Semi conducting compound
- 3.4 Insulation material: Extruded XLPE
- 3.5 Insulation Screen material
- a) Non-conducting: Extruded Semi-conducting compound
- b) Conducting: Non-magnetic metallic Copper tape per core sized for Carrying earth fault current of 300A for 2 sec
- 3.6 Armour: Applicable
- If armoured,
- (i) Single core: Non-magnetic hard drawn Al grade H4 round wire
- (ii) Multi core: Galvanised steel round wire



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3.7 Inner sheath material: Extruded FRLS PVC Type ST2

3.8 Outer sheath material: Extruded FRLS PVC Type ST2

4.0 Other Technical Particulars:

4.1 System fault level:

	3.3kV	11 kV
RMS Value (kA)	40	50
Duration (sec)	1	1
Peak Value (kA)	100	125

5.0 Type testing requirement: - YES (Type test certificates to be furnished in line  
With clause 4.2, 4.3 of Section-D of specification)

If yes, standard to which type  
Testing shall conform to IS: 13573

**1X800 MW KOTHAGUDEM TPS**  
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**ANNEXURE-I**  
**BOQ CUM PRICE SCHEDULE FOR MV CABLES TERMINATION & JOINTING KITS (MAIN ITEMS)**

Sr. No.	Item code	Item description	Unit	ORDERED QUANTITY	UNIT PRICE (EX-WORKS) Rs	TOTAL PRICE (EX-WORKS) Rs	REMARKS
<b>A</b>		<b>TERMINATION KITS FOR</b>					
1.0	507-24403-A	11/11KV(UE) GRADE, XLPE INSULATION, 1C-240 SQ.MM AL CONDUCTOR, AL ARMoured CABLE WITH ALUMINUM LUG	NOS.	62			
2.0	507-24407-A	11/11KV(UE) GRADE, XLPE INSULATION, 1C-630 SQ.MM AL CONDUCTOR, AL ARMoured CABLE WITH ALUMINUM LUG	NOS.	90			
3.0	507-24410-A	11/11KV(UE) GRADE, XLPE INSULATION, 3C-240 SQ.MM AL CONDUCTOR, STEEL ROUND WIRE ARMoured CABLE WITH ALUMINUM LUG	NOS.	96			
4.0	507-24495-A	3.3/3.3KV(UE) GRADE, XLPE INSULATION, 1C-240 SQ.MM AL CONDUCTOR, AL ARMoured CABLE WITH ALUMINUM LUG	NOS.	106			
5.0	507-24501-A	3.3/3.3KV(UE) GRADE, XLPE INSULATION, 3C-185 SQ.MM AL CONDUCTOR, STEEL ROUND WIRE ARMoured CABLE WITH ALUMINUM LUG	NOS.	72			
<b>B</b>		<b>STRAIGHT THROUGH JOINTING KITS FOR</b>					
1.0	507-24054-A	11/11KV(UE) GRADE, XLPE INSULATION, 1C-240 SQ.MM AL CONDUCTOR, AL ARMoured CABLE WITH ALUMINUM LUG	NOS.	15			
2.0	507-24070-A	11/11KV(UE) GRADE, XLPE INSULATION, 1C-630 SQ.MM AL CONDUCTOR, AL ARMoured CABLE WITH ALUMINUM LUG	NOS.	24			
3.0	507-24082-A	11/11KV(UE) GRADE, XLPE INSULATION, 3C-240 SQ.MM AL CONDUCTOR, STEEL ROUND WIRE ARMoured CABLE WITH ALUMINUM LUG	NOS.	14			
4.0	507-24122-A	3.3/3.3KV(UE) GRADE, XLPE INSULATION, 3C-185 SQ.MM AL CONDUCTOR, STEEL ROUND WIRE ARMoured CABLE WITH ALUMINUM LUG	NOS.	32			

**Notes:**

- 1 THE ORDERED QUANTITIES INDICATED ABOVE SHALL BE RELEASED FOR MANUFACTURE ALONG WITH PO/LOI.
- 2 MANUFACTURING OF ORDERED QUANTITIES SHALL BE DONE AFTER THE APPROVAL OF TECHNICAL AND QUALITY DOCUMENTATION, AND SUPPLY OF SAME SHALL BE COMPLETED WITHIN TWO MONTHS OF DATE OF APPROVAL OF DOCUMENTS.
- 3 THE TOTAL QUANTITY VARIATION SHALL BE LIMITED TO (+) 20 % OF THE TOTAL CONTRACT VALUE DERIVED ON THE BASIS OF THE ORDER QUANTITIES.
- 4 SUBSEQUENT LOTS, IF ANY SHALL BE CLEARED FOR MANUFACTURE BASED ON PROGRESS OF ENGINEERING AND SITE REQUIREMENTS. A LEAD-TIME OF TWO MONTHS SHALL BE GIVEN FOR COMPLETION OF SUPPLY OF EACH LOT FROM THE DATE OF CLEARANCE OF THE QUANTITIES.
- 5 BIDDER TO OFFER 6.6KV TERMINATION & JOINTING KITS FOR S. NO. A.4, A.5 & B.4 ABOVE IF THEY CANNOT PRODUCE RELEVANT TYPE TEST CERTIFICATES FOR 3.3KV KITS CONDUCTED IN ANY GOVT. / GOVT. APPROVED LAB.

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**ANNEXURE – II**

**LIST OF DRAWINGS / DOCUMENTS  
(REQUIRED TO BE FURNISHED BY SUCCESSFUL BIDDER AFTER AWARD OF CONTRACT)**

Sl. No	Drawings / Document Description	Drawings / Document Number	Submission schedule by vendor
a)	Technical Data Sheet	PE-V0-410-507-E031	Within two weeks of award of contract
b)	Termination & Jointing kits Manufacturing / Detailed Drawing	PE-V0-410-507-E032	Within two weeks of award of contract
c)	Manufacturing Quality Plan	PE-V0-410-507-E904	Within two weeks of award of contract
d)	Type Test Reports for Tests conducted in past years (Ref. Cl. 4.2.0 of section-D enclosed with this spec.)	PE-V0-410-507-E033	Within <b>two</b> weeks of award of contract
e)	Type Test Reports for Tests conducted under this contract (Ref. Cl. 4.3.0 & 4.4.0 of section-D enclosed with this spec.)	PE-V0-410-507-EXXX	Within a week from the date of conduction of Type Test

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**ANNEXURE – III**

(VENDOR DRAWING/DOCUMENT SCHEDULE)

S. NO.	DESCRIPTION	No. hard prints/Soft copies	No. of CD-ROMs	REMARKS
1.	Docs. /drgs. for approval (First submission)	1 Hard copies + Soft Copy	Nil	
2.	Drgs. / docs. for approval (Second & subsequent submission till approval)	Soft Copy	Nil	
3.	Final approval drgs. / docs. for Distribution	14 Hard Copies + Soft Copy	3 CD-ROMS	
4.	As Built Drg.	6 Hard copies + Soft Copy	3 CD-ROMS	
5.	Operation & Maintenance manual for approval	Soft Copy		
6.	Approved Operation & Maintenance Manual for distribution	6 Hard copies + Soft Copy	3 CD-ROMS	
7.	Erection/ Installation Manual	6 Hard copies	3 CD-ROMS	
8.	Type Test Certificates/ Reports	1 Hard copies + Soft Copy		



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**DATA SHEET - C**

**GURANTEED TECHNICAL PARTICULARS**  
**(TO BE SUBMITTED BY SUCCESSFUL BIDDER)**  
**(SEPARATE FOR EACH TYPE & SIZE OF CABLE)**

**1.0.0 GENERAL**

1.1.0 Name of manufacturer:

1.2.0 Place of manufacture:

**2.0.0 Standard Applicable:**

IS: 13573/ VDE 0278 for testing of kits:

**3.0.0 TECHNICAL DETAILS**

**3.1.0 TERMINATION KITS**

- a) Make:
- b) Type:
- c) Application:
- c) Voltage Grade:
- d) Kit no. as per catalogue:
- e) Applicable conductor size:
- f) Whether previously type tested:
- g) Shelf life of the least durable component: years
- h) Tinned Copper/ Aluminium heavy duty type cable lugs form part of termination kits: Yes/No
- i) Total shrouding of all live parts: Yes/No

**3.2.0 STRAIGHT THROUGH JOINTS**

- a) Make:
- b) Type:
- c) Voltage Grade:
- d) Kit no. as per catalogue:
- e) Applicable conductor size:
- f) Whether previously type tested:
- g) Shelf life of the least durable component: years