


ESP-001- 2A Rev.00		PROJECT ENGINEERING & SYSTEMS DIVISION		Std. / Doc. Number	
				PY 56660	
				Rev. No.	00
				Sheet 1 of 6	

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TECHNICAL SPECIFICATION SUPPLY OF S&T ITEMS [PACKAGE -15] (RAILWAYS ELECTRICIFICATION)

PROJECT	ELECTRIFICATION WORKS FOR BIRLANAGAR - ETAWAH, BHANDAI -UDI,FARRUKHABAD- SHIKOHABAD INCLUDING MAINPURI - ETAWAH SECTIONS OF NORTH CENTRAL RAILWAY
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Revisions: Refer to record of revisions	Prepared by :	Checked by :	Approved by :	Date :
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**1.0 INTENT OF SPECIFICATION:**

This specification governs the requirements of design, manufacture, testing and packing at manufacturer's work and delivery at site and complete in all respects of this specification.

2.0 TECHNICAL REQUIREMENTS:

All the technical requirements of Items/Works and Accessories shall be as per applicable RDSOs as indicated.

3.0 MATERIAL CODES:

Bidder to offer materials as per enquiry and Below Table, **Material Code-PY9756660007**

Sl. No.	Material Description	UNITS	Quantity	RDSO Specification	Remarks
1	Supply of Digital Earth clamp meter model DECT-2 MOTWANI or similar display 4 digit large LCD, Long Jaw 85x32 mm phai, range 0.01 ohm to 1000 ohms, resolution 0.001 ohm, over range (OL ohms) as well as low range (L 0.01 OHMS) indication, low battery indication.	No's	14	As per railway supplier standards	
2	Supply of Leakage Clamp Meter	NO's	5	As per railway supplier standards	
3	Supply of Digital multi meter Fluke / Rishab make with latest model available in the market	NO's	1	Fluke / Rishab make	
4	Supply of OTDR meter-EXFO make Model 710B or similar,	NO's	3	EXFO make Model 710B or similar	
5	Supply of Optical Fiber Splicing Machine EXFO make Model IFS10-INNO or similar.	NO's	3	EXFO make Model IFS10-INNO or similar.	

Notes:

- Item shall be as per RDSO /IRS Standard and Item to be sourced from RSDO/Railways approved vendors only.
- If there is any discrepancy in the above mentioned RDSO specification number against each item, the RDSO vendor directory mentioned standards should be followed.
- Price format enclosed with specification as annexure-1

**4.0 DOCUMENTATION:****4.1.1 To be submitted along with bid**

a	Technical data sheets (for information).
b	RDSO approval certificate for manufacturing.
c	Type Test Certificates (for information).
d	RDSO Approved Quality Assurance plan.
e	Bidder shall furnish NO DEVIATION SHEET as per Clause .No 5.0 .
f	Check list for Bid Submission as per Clause .No 6.0
g	Duly filled unpriced price schedule as per Annexure-1

Document at Sl. no. "a" to "d" above shall be submitted in line with Applicable & latest RDSOs as mentioned in Table-1 against each material codes.

In case RDSOs approval certificate for the company to manufacture of the enquiry items is/are **not available, the bidder's offer will be rejected. Hence, OEM should have a valid RDSO approved certificate.**

4.1.2 To be submitted in 6 sets after award of contract

Sl. No.	Description
a	Completely filled in technical data sheets as per railways practices suitable for information & inspection (<i>Separately typed vendor datasheets are NOT acceptable</i>).
b	Type Test Certificates for review
c	Storage Instruction including handling of material at Site.

6 set of all Drawings & document shall be submitted as per Number: latest applicable RDSO within 1-week time after release of LOI/PO whichever is earlier.

BHEL shall provide comments/approval within 10 days of receipt of drawings. Vendor shall incorporate comments (if any) and submit revised documents/drawings within 7 days for final approval. Vendor is responsible for completion of approval cycle and minimizing number of revisions.

**5.0 NO DEVIATION FORMAT**

ENQUIRY NUMBER _____ NAME OF BIDDER _____

ITEM _____ OFFER REF
NUMBER _____

S/N	Clause/ Spec Number	Description	Deviation	Nature of Deviation	Remarks
1					
2					
3					
4					
5					

NOTES:

- Technical offer of the bidder will be evaluated only on the basis of No Deviation Schedule. No Deviation Schedule constitutes this sheet (with these Notes) duly signed and stamped.**
- Deviations are not accepted against RDSO standard specification, RDSO approved drawings & RDSO approved quality assurance plan. Accordingly, No deviation schedule shall be filled and submitted along with technical offer.
- No price implications shall be entertained by BHEL during technical scrutiny & order execution stage. Hence, in no case there will be consideration of price implications.
- Bidder to submit the "No Deviation Schedule" by writing "NO Deviations" in this format.
- If the "No Deviation Schedule" is not submitted along with the offer, the bidder's offer is likely to be rejected without any further interaction with the bidder.

SIGNATURE OF BIDDER _____

NAME _____

DESIGNATION _____

DATE _____

COMPANY SEAL

**6.1 CHECKLIST FOR BID SUBMISSION****(TO BE FILLED BY BIDDER AND SUBMITTED ALONG WITH OFFER)**

Sl. No.	Description	Bidder Confirmation	Comments/ Remarks
1	Technical offer is conforming to technical specification PY 56660 & its associated Annexures (if any), pre-bid clarifications (if any) etc., Bidder to confirm (Yes / No).		
2	Bidder confirms that they have read the provisions of the Deviation Schedule and have included the deviation Schedule in the Offer after agreeing to the said Provisions (Yes/No).		
3	Bidder confirms that Prices for all items have been Quoted. Unpriced & Priced Schedules are included in the Techno-commercial Offer and Priced Offer respectively.(Yes/NO)		

Notes: Offer received without affirmative confirmation against any of the above points may not be considered for evaluation.

(Signature and stamp of bidder with date)

6.2 Quantities mentioned are tentative requirement. Based on the actual requirement, quantity can be increased or decreased by about 15% on overall qty. Final BOQ will be informed before price bid opening. Unit rates quoted by bidder shall be applicable for the revised BOQ also.

6.0 INSPECTION & TESTING

- 7.1 Testing of Items and accessories shall be as per Number: latest RDSOs as applicable.
- 7.2 Stage and final Inspection including document review shall be carried out by RDSO/CORE/ their representative and BHEL at vendor works as per RDSO approved QAP.
- 7.3 Vendor shall furnish RDSO approved Quality Assurance plan for information to the purchaser”

7.0 PACKING & DISPATCH

Packing and Dispatch of Items and accessories shall be as per Number: latest RDSOs (As applicable).

8.0 TECHNICAL DATA SHEET

Technical data sheet shall be provided considering the technical requirement of the Applicable Latest RDSO specifications (As indicated against each material codes in table-1 of this specification). The technical data sheet should suitable for review & inspections. Standard format suitable for current railway practices are accepted with detailed information.

9.0 DISPATCH INSTRUCTIONS

1. Items and accessories to be manufactured after data sheet approval from BHEL / Railway Authority.
2. Dispatch location and corresponding lot quantities will be intimated during drawing approval stage.
3. BHEL will reserve right to modify the location (with in section), right to change the quantities.

Annexure-1

TABLE -A : BOM & Price format for Material Code - PY9756660007						
S. No	Type of instrument	UNITs	Quantity [A]	Unit rate (Rs.) [B]	Total Unit Rate (Rs.) [C=A*B]	Remarks
1	Supply of Digital Earth clamp meter model DECT-2 MOTWANI or similar display 4 digit large LCD, Long Jaw 85x32 mm phai, range 0.01 ohm to 1000 ohms, resolution 0.001 ohm, over range (OL ohms) as well as low range (L 0.01 OHMS) indication, low battery indication.	NO's	14			
2	Supply of Leakage Clamp Meter	NO's	5			
3	Supply of Digital multi meter Fluke / Rishab make with latest model available in the market	NO's	1			
4	Supply of OTDR meter-EXFO make Model 710B or similar,	No's	3			
5	Supply of Optical Fiber Splicing Machine EXFO make Model IFS10-INNO or similar.	NO's	3			
Overall prices (Rs.) ::				Rs. _____		