



TRANSMISSION CORPORATION OF TELANGANA LIMITED

(Website: tstransco.in. CIN No. U40102TG20148SGC094248)

From

The Chief Engineer/P&MM,
TSTransco,
Vidyut Soudha,
Hyderabad – 82.

To

M/s. Micromap Electronic Systems Pvt. Ltd.,
215-217, 2nd Floor, Lekhraj Gold,
Munshi Puliya, Indira Nagar
Lucknow – 226016(U.P.).

SAP.P.O.No. 4500003209/860–PMM/2023/CE/P&MM/SE/P&MM/DE31/F.No.TSPMM31-03/2023 / D.No.107/23, dt. 08-08-2023

Sirs,

Sub:- P&MM- Telecom - Tender Specification.No.TSPMM31-03/2023 – Supply, Installation, Testing & Commissioning of 213 Nos. SDH Optical Line Terminal Equipment, NMS and Associated Equipment – Detailed Purchase Order - Issued - Reg.

Ref:- 1) Tender Specification No. TSPMM31-03/2023.

2) Your offer on e-platform against Specification No. TSPMM31-03/2023.

3) Your Revised price letter No. MESPL/TSTRANSCO/04, Dt.01.07.2023.

4). LOI.No. CE/P&MM/SE/P&MM/DE31/F.No.TSPMM31-03/2023/D.No.98/23,
dt.27-07-2023.

5). Your LOI acknowledgement Lr.No. MESPL/TSTRANSCO/06, Dt.28.07.2023

I, acting for and on behalf of and by the order and direction of TRANSMISSION CORPORATION OF TELANGANA LTD., (herein after called the "TSTRANSCO" or "the purchaser"), accept your offer submitted vide ref. 2nd cited, read with your letter vide ref. 3rd cited, against Tender Specification vide ref 1st cited, for Supply, Installation, Testing & Commissioning of 213 Nos. SDH Optical Line Terminal Equipment, NMS and Associated Equipment at total package cost of **Rs. 17,77,15,056.00** (Rupees Seventeen Crores Seventy Seven Lakhs Fifteen Thousand and Fifty Six only) as indicated below and the details are in Annexure (Schedule of Prices).

1) SCOPE OF CONTRACT:

This contract relates to Supply, Installation, Testing & Commissioning of 213 Nos. SDH Optical Line Terminal Equipment, NMS and Associated Equipment detailed under clause (2) below and covers design, manufacture, testing before dispatch, delivery F.O.R. destination.

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- 2) **SCHEDULE OF MATERIALS AND PRICES:** Supply, Installation, Testing & Commissioning of 213 Nos. SDH Optical Line Terminal Equipment, NMS and Associated Equipment (inclusive of Freight & Insurance, Packing & Forwarding and GST) detailed in Annexure enclosed.

Sl. No.	Description	Total Amount (in Rs.)
1	Supply, Installation, Testing & Commissioning of 213 Nos. SDH Optical Line Terminal Equipment, NMS and Associated Equipment (Details in Annexure).	17,77,15,056.00

(Rupees Seventeen Crores Seventy Seven Lakhs Fifteen Thousand and Fifty Six only)

- 2.1 The Prices accepted above are FIRM during the process of the contract and until the warranty period is completed.
- 2.2 The prices accepted are inclusive of Freight & Insurance, Packing & Forwarding and GST.
- 2.3 The above prices are inclusive of unloading charges at destination site / stores.
- 2.4 M/s. Micromap Electronic Systems Pvt. Ltd. is responsible for all the Taxes applicable on this contract.
- 2.5 Income Tax, other taxes if any, will only be towards the supplier's account and would be recovered from the supplier bills for arranging payment as directed by the concerned department.
- 2.6 **STATUTORY VARIATION:** It is responsibility of bidder to consider the correct rates of the duties and taxes leviable on the equipment/material/work at the time of bidding. After considering the correct rates of duties and taxes only the bidder shall quote the prices.

Any variation up or down in statutory levy or new levies introduced after tender calling date under this specification will be to the account of TSTransco, provided in cases where delivery schedule is not adhered to by the contractor/manufacturer and there are upward variation/revision after the agreed delivered date, the contractor/manufacturer will bear the impact of such levies and if there is downward variation/revision, the TSTransco will be given credit to the effect.

In case of bought out items statutory variation shall not be applicable on that taxes and duties. For this purpose, bought out items means the material/equipment not manufactured by the bidder i.e. statutory variation will be applicable on taxes and duties involving direct transaction between bidder and TSTransco only and not for the taxes and duties between the bidder and his sub vendors.

- 2.7 The purchaser reserves the right to vary the order quantity by ± 50 % during execution of the contract.

- 2.8 TCS @ 0.1% on sale amount is applicable, if company's aggregate sales consideration during the relevant financial year exceeds rupees Fifty Lakhs and total sales, gross receipts or total turnover including GST if any exceeds Rupees Ten Crores in the financial year immediately preceding the financial year of subject sales. The Payment of TCS shall be subjected to furnishing of necessary documents by the seller, which are to be verified by DDOs while processing the bills.
- 3) **DELIVERY SCHEDULE:** The Supplies shall be completed within 6 months from the date of issue of LOI and Erection, Testing & Commissioning of the equipment shall be completed within 1 month from the date of supply/ readiness of sites.
- 4) **FREIGHT & TRANSIT INSURANCE:** Insurance shall be arranged by the supplier to cover transit risks and 45 days storage cover at site. The insurance will be in an amount equal to 100% FADS value of equipment on all-risks basis. The policy shall have a provision for extension to cover further storage if necessary at destination stores/site at TSTransco cost.
- 5) **DESPATCH INSTRUCTIONS:** The Dispatch instructions for the equipment will be issued separately after inspection.

The details of consignee, paying officer and other officers will be furnished along with dispatch instructions, while approving the Inspection/Test Certificates.

6) **PERFORMANCE SECURITY:**

- 6.1 The supplier shall furnish to the purchaser the performance security in the name of **The Chief Engineer/P&MM, TSTransco, Vidyut Soudha, Hyderabad-82**, for an amount equal to 3% of the total contract value i.e. **Rs. 53,31,452/-** for proper fulfillment of the contract, shall include the warranty period, and completion of performance obligations including warranty obligations. The performance security will cover 60 days beyond the date of completion of performance obligations including warranty obligations.
- 6.2 The performance security shall be executed in accordance with the clause (6) of Purchase Order and clause (38) GTC of Tender Specification shall be furnished on a stamp paper of value Rs.100/-. The B.G shall be extended if required suitably, in accordance with the provisions of Clause (38) of specification.
- 6.3 In the event of any correction of defects or replacement of defective material during the warranty period, the warranty for the corrected / replaced material will have to be extended to a further period of 12 months and the Performance Bank Guarantee for proportionate value shall have to be extended 60 days over and above the extended warranty period.

The proceeds of the performance security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to fulfill its obligations under the Contract.

7) TERMS OF PAYMENT:-

i) A. Payment terms are indicated below for the items of Sl.No.I (Material) & III (Erection, Testing & Commissioning) in Annexure (Schedule of Prices)

- a. **80%** payment towards equipment cost will be arranged within 45 days after the material/equipment is supplied in full shape subject to delivery schedule of work (Section-IV) on receipt of material / equipment in good condition.

Whether the materials are delivered in stores or at site, the vendor shall submit the invoices along with relevant delivery documents as indicated below to the concerned Superintending Engineer/Telecom Zone duly enclosing the form-13 issued by the check measuring officers.

- i) Form 13
 - ii) Contractor's detailed invoice
 - iii) Detailed Delivery Challan Acknowledged by Consignee
 - iv) Manufacturer's/Supplier's Warranty Certificates
 - v) Approved Test Certificates
 - vi) Copy of Insurance Policy Certificate
 - vii) Copy of Acceptance Letter of Performance Security issued by Purchaser
- b. 10% payment towards equipment cost will be made after erection of equipment/material on pro-rata basis ***by the concerned Superintending Engineer / Telecom/ Zone where the initial 80% payment was already processed.***
- c. Balance 10% payment towards equipment cost will be made along with total erection & commissioning charges after commissioning of material / equipment duly certified by the concerned Divisional Engineer/Telecom on pro-rata basis ***by the concerned Superintending Engineer/Telecom/Zone where the initial 80% payment was already processed.***
- d. 100% Payment towards erection and commissioning will also be made by concerned Superintending Engineer/Telecom/Zone, against submission of invoices.
- e. The vendor shall submit the invoices separately for the PFC funded and Non-PFC funded items of the Telecom equipment against relevant scheme codes.

B. Payment terms are indicated below for the items of Sl.No.II (Mandatory Spares) in Annexure (Schedule of Prices) for which Erection & Commissioning is not applicable.

Sl.No.	Supply of the following Material / Equipment	Serial number in Annexure (Schedule of Prices)
II	Mandatory Spares for communication equipment	Sl.No.II. (7, 8(i, ii, iii & iv) & 9(i, ii & iii)

100% payment will be arranged within 45 days for the material/equipment supplied in complete shape subject to their delivery as per the schedule of work and on receipt of material / equipment in good condition at the destination / stores i.e., check measurement date in Form-13. The supplier shall have to predefine the Bank Account details after receipt of LOI and before entering into contract for electronic transfer of payment.

- ii) The Supplier Bank Particulars are as detailed below for RTGS payment (Real Time Gross Settlement).

1	Vendor Name	M/s. Micromap Electronic Systems Pvt. Ltd.
2	Complete Address	M/s. Micromap Electronic Systems Pvt. Ltd., 215-217, 2nd Floor, Lekhraj Gold, Munshi Puliya, Indira Nagar Lucknow – 226016 (U.P.).
3	Name of the Bank	Canara Bank
4	Branch Address	C362, Aravali Marg, Indira Nagar, Lucknow, Uttar Pradesh - 226016
5	Branch Code	18482
6	City	Lucknow
7	Account No.	84821400000048
8	MICR Code	226015058
9	IFSC No.	CNRB0018482
10	Income Tax PAN No.	AAGCM3288H
11	GST Registration No	09AAGCM3288H1Z4

The Bank details as above are final and shall not be revoked under any circumstances. The Bank Charges if any will be made to the account of M/s. Micromap Electronic Systems Pvt. Ltd. and will be recovered from the bill amount per each disbursement on LOA raised by unit officers.

No interest will be payable in case the payment is delayed for whatever reason.

The Banker charges involved if any in establishing and operating the Cheque / Bills shall be to your account.

- iii) If the supplier has received any over-payments by mistake or if any amounts are due to the TSTransco due to any other reason, when it is not possible to recover such amounts under this contract, the TSTransco reserves the right to collect the same from any other amounts and / or Bank guarantees given by you due to or with the TSTransco.
- iv) The supplier should invariably submit Inspection/test certificates and other documents that the purchaser specifies, before dispatch is made so that they can be checked and approved well before it is dispatched and due for payment.
- v) When the supplier does not at any time, fulfill his obligations in replacing / rectifying etc. of the damaged / defective materials in part or whole, promptly to the satisfaction of the TSTransco Officers, the TSTransco reserves the right not to accept the bills against subsequent dispatches made by the supplier and only the supplier will be responsible for any demurrages, wharfages or damage occurring to the consignments so dispatched.

- 8) **CURRENCY OF PAYMENT:** All payments will be made in non-convertible Indian Rupees.
- 9) **WARRANTY:** The equipment shall be guaranteed for satisfactory performance for a period of 18 months from the date of check measurement in form-13 i.e., receipt of goods in the departmental store/site in good condition.

During this period, if the equipment is found defective it shall be replaced or repaired by you free of all costs to the TSTRANSCO within 30 days, which shall in no circumstances be more than the delivery period indicated in this order.

In the event of any correction of defects or replacement of defective material during the warranty period, the warranty for the corrected / replaced material shall be extended to a further period of 12 months and the Performance Bank Guarantee for proportionate value shall be extended 60 days over and above the extended warranty period.

The proceeds of the performance security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to fulfill its obligations under the Contract.

- 10) **RESPONSIBILITY OF THE SUPPLIER FOR LOSS OR DAMAGE:** The supplier is responsible for the safe delivery of the goods in good condition at the destination stores. He should acquaint himself of the conditions prevailing for handling and transport of the goods to the destination and shall include and provide for security and protective packing of the goods so as to avoid damage in transit.
- 11) **PACKING:** The supplier will provide such packing of the Materials / equipment as is required to prevent their damage or deterioration during transit to their final destination, as indicated in technical specification. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Materials / equipment final destination and the absence of heavy handling facilities at all points in transit.
- 12) **INSPECTION:**
- (i). The accredited representative of the TSTRANSCO have access to you or your sub-contractor's works at any time during the working hours for the purpose of inspecting the materials during manufacture of the plant and equipment and testing, and may select samples from the materials going into the plant and equipment. You shall on such occasions provide proper and adequate facilities for testing the selected samples at any time. The final acceptance tests and routine tests shall be conducted in the presence of TSTransco's representative who will be deputed for the purpose.

The program of inspection is to be intimated to the TSTRANSCO with 15 days prior notice for acceptance tests. The goods shall not be dispatched until such inspection is conducted or waived in writing and followed by dispatch clearance communicated by the purchaser in writing.

- ii) The acceptance of any quantity of materials will in no way relieve the supplier of its responsibility for meeting all the requirements of this specification and will not prevent subsequent rejection if such materials are later found to be defective.
- iii) Should any inspected or tested materials / equipment fail to conform to the specification, the Purchaser may reject the materials and supplier will either replace the rejected materials or make alterations necessary to meet specifications requirements free of cost to the Purchaser.
- iv) Inspection will be conducted on 20% of the quantities offered for inspection. Samples will be collected at random to establish that the guaranteed technical parameters are as per the submitted bid by the supplier. In the case of non-adherence, the purchaser may take suitable action on the supplier including cancellation of vendor registration and banning further dealings, depending on the gravity of the deviation.

- 13) **TESTS AND CERTIFICATES:** Three copies of the test certificates containing the results of all the tests including acceptance and routine tests carried out shall be forwarded to Chief Engineer/P&MM and got approved before the presentation of the bills for payment.

The manufacturer's test certificates shall be submitted immediately after the acceptance tests are conducted and got approved before the equipment is dispatched.

- 14) **GUARANTEED TECHNIAL PARTICULARS:** The Guaranteed Technical Particulars approvals will be issued separately.

- 15) **DRAWINGS:** Drawings approvals will be issued separately.

- 16) **GENERAL CONDITIONS OF CONTRACT:** Except in so far as it is provided otherwise in this contract, you shall abide by the terms and conditions indicated in the Tender Specification No. TSPMM31-03/2023 which includes the TSTransco's General Terms and Conditions of contract'. "Except as specifically accepted in this order, the terms and conditions mentioned in your quotation under reference are not accepted".

- 17) **RISK:** The risk in the property is entirely yours till the goods are received in good condition at destination stores as certified by the consignee.

- 18) **PENALTY FOR DELAY IN SUPPLIES:** The time for and the dates for delivery mentioned in the contract will be deemed to be the essence of the contract. Subject to force majeure clause No.19, if the supplier fails to deliver any or all of the Materials / equipment or fails to perform the services within the period (s) specified in the Contract, the purchaser will, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to 0.5% per week on the undelivered portion of material and services subject to a maximum of 5% of the total value of the contract. Once the maximum is reached the Purchaser may consider termination of the contract.

The check measurement date in form-13 i.e., date of receipt of materials at destination stores in good condition will be taken as the date of delivery. Materials / Equipment which are not of acceptable quality or are not conforming to the specification would be deemed to be not delivered. For penalty, the number of days would be rounded off to the nearest week and penalty calculated accordingly.

The penalty specified above will be levied and would be adjusted against subsequent pending bills.

- 19) **FORCE MAJEURE:** The Supplier will not be liable for forfeiture of its performance security, penalty for late delivery, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

For purposes of this clause, "Force Majeure" means an event beyond the control of the supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

If a Force Majeure situation arises, the supplier will promptly notify the Purchaser in writing of such condition and the cause thereof. Unless or otherwise directed by the Purchaser in writing, the Supplier will continue to perform its obligations under the Contract as far as is reasonable in practice, and will seek all reasonable alternative means for performance not prevented by the Force Majeure event.

No price variance will be allowed during the period of force majeure.

- 20) **CORRESPONDANCE:** Your acknowledgement to this order and any correspondence, general or technical in nature shall be addressed to the Chief Engineer/P&MM, TSTransco, VidyutSoudha, Hyderabad-500082.

All correspondence regarding dispatch and payment shall be addressed to the consignee under intimation to the Chief Engineer/P&MM, VidyutSoudha, Hyderabad-82.

- 21) **COMPLETENESS OF CONTRACT:** All minor accessories that are normally necessary for satisfactory and efficient operation of the equipment shall be supplied by you free of cost to the TSTransco, whether these are specifically mentioned or not in the specification, your tender schedules or in this Purchase Order and the equipment shall be complete in itself.

- 22) **OPERATION AND MAINTENANCE MANUALS:** One set of Manuals consisting of operating instructions and programming schedules and approved drawings for each of the equipment shall be supplied in the package along with respective equipment's at the time of dispatch. They shall contain clear instructions on erection, commissioning and maintenance for the guidance of operating staff. Any items requiring the special attention of the Operation Engineer shall be highlighted.

23) TRAINING OF PURCHASER STAFF:

The supplier shall be required to provide facilities for imparting training at no extra cost to Twenty (20) engineers to be nominated by the purchaser (TSTRANSCO) for OLTE and associated equipment at the manufacturer's works place for Four days. Expenses towards to and fro travel in respect of the trainees will be borne by the purchaser. However the bidder shall provide suitable lodging and boarding facilities as well as transportation to the place of training for the trainee and the supplier shall be required to provide facilities for imparting training at no extra cost to engineers to be nominated by the purchaser (TSTRANSCO) without any additional financial commitment to TSTRANSCO. An important objective of training is to increase the ability to control, supervise and carry out maintenance work on plant and equipment supplied and installed by the contractor.

24) CONTRACT AMENDMENTS: No variation in or modification of the terms of the contract will be made except by written amendment by the Purchaser and accepted by the supplier.

25) TERMINATION FOR DEFAULT:

25.1 The purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part:

- i. If the supplier fails to deliver any or all of the Materials / equipment within the period(s) specified in the Contract, or within any extension thereof granted by the Purchaser.
- ii. If the supplier fails to perform any other obligations under the contract.
- iii. If the supplier, in the judgment of the purchaser has engaged in corrupt or Fraudulent practices in competing for or in executing the contract.

25.2 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner, as it deems appropriate, materials/equipment or services similar to those undelivered, and the supplier will be liable to the purchaser for any excess costs for such similar materials/equipment or services. However, the supplier will continue performance of the contract to the extent not terminated.

26) TERMINATION FOR INSOLVENCY:

The Purchaser may at any time terminate the contract by giving written notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the supplier, provided that such termination will not prejudice or not affect any right of action or remedy, which was accrued or will accrue thereafter to the Purchaser.

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27) TERMINATION FOR CONVENIENCE:

- (a) The Purchaser, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination will specify the termination is for the Purchaser's convenience, the extent to which performance of the supplier under the Contract is terminated and date upon which termination becomes effective.
- (b) However the materials/equipment those are complete and ready for shipment within Thirty (30) days after the supplier's receipt of notice of termination will be accepted by the purchaser at the contract terms and prices.

28) JURISDICTION: All and any disputes or differences arising out of or touching this order will be decided by the courts or tribunals situated in Hyderabad or Secunderabad only. No suit or other legal proceedings will be instituted elsewhere.

29) ACKNOWLEDGEMENT: Please acknowledge this order soon on its receipt by returning the extra copy of the order enclosed, duly signing it with date in token of acceptance.

Yours faithfully,

Sd/-
Chief Engineer/P&MM

"WE ACCEPT THE TERMS AND CONDITIONS STIPULATED IN THIS P.O."

Signature of the Contractor with seal

Copy to:

The Executive Director/Finance/ TSTransco/Vidyut Soudha/Hyderabad.

The FA&CCA/ACCOUNTS/TSTransco/Vidyut Soudha/Hyderabad.

The Chief Engineer/Telecom/Vidyuth Soudha/Hyderabad.

The SE/OMC/Metro-Central /Hyderabad /TSTransco/NIMS GIS/Erramanjil/Hyderabad.

The Superintending Engineer/Telecom/Metro/ TSTransco /132KVSS Chilakalaguda/ Hyderabad

The Superintending Engineer/Telecom/Rural/ TSTransco / GTS Colony/ Erragadda/Hyderabad

The Superintending Engineer/Telecom/ TSTransco / 220KV SS/ Mulugu Road / Warangal

The Superintending Engineer/Telecom/TSTransco /132/33KVSS Opp. to Court, Jagityala road, Karimnagar-500501.

The Divisional Engineer/ Telecom/SLDC/Vidyut Soudha/Hyderabad --- (Through e-mail)

The Divisional Engineer/ Telecom/ Metro/Hyderabad --- (Through e-mail)

The Divisional Engineer./ Telecom/400KVSS/Mamidipalli/Pahad-e-Sharif/Hyderabad--
(Through e-mail) ***** to check measure the equipment at stores

The Divisional Engineer/Telecom/Sangareddy/GTS Colony/Erragadda/Hyd.---(Through e-mail)

The Divisional Engineer/ Telecom/132KVSS/Mettuguda/Mahaboobnagar---(Through e-mail)

The Divisional Engineer/ Telecom/ 132KVSS Nalgonda --- (Through e-mail)

The Divisional Engineer/ Telecom/ 132KVSS /Nizamabad --- (Through e-mail)

The Divisional Engineer/ Telecom/132KVSS/Karimnagar --- (Through e-mail)

The Divisional Engineer/ Telecom/ 132KVSS /Adilabad--- (Through e-mail)

The Divisional Engineer/Telecom/220KVSS/Mulugu Road/Warangal--- (Through e-mail)

The Divisional Engineer/ Telecom/132KVSS /Ellandu Road/Khammam --- (Through e-mail)

The Divisional Engineer/Transmission Stores/ Metro-Central/Erragadda/GTS Colony/Hyd.

The Asst. Executive Engineer/Transmission Stores/220KVSS Shapurnagar/Hyd.

All the Asst. Divisional Engineers/Telecom --- (Through e-mail)

Annexure (Schedule of Prices)

SAP.P.O.No. 4500003209/860–PMM/2023/CE/P&MM/SE/P&MM/DE31/F.No.TSPMM31-03/ 2023 / D.No.107/23, dt. 08-08-2023

Sl.No	Item Description	UoM	Total Qty	Unit Price Rs.	Total Price Rs.
I	Material				
1	SDH Equipment (STM-4 MADM upto 3/5 MSP protected directions) as per detailed BOQ				
i	Base Equipment for 3 directions (Common cards, Cross connect/control cards, Optical base card, Power supply cards, power cabling, other hardware & accessories including sub-racks, patch cords, DDF etc. fully equipped excluding (2)&(3) below)	No.	198	3,49,890.00	6,92,78,220.00
ii	Base Equipment for 5 directions (Common cards, Cross connect/control cards, Optical base card, Power supply cards, power cabling, other hardware & accessories including sub-racks, patch cords, DDF etc. fully equipped excluding (2)&(3) below)	No.	15	4,95,000.00	74,25,000.00
2	Optical cards				
i	S4.1	No.	502	1,200.00	6,02,400.00
ii	L4.1	No.	308	1,800.00	5,54,400.00
iii	L4.2	No.	88	2,160.00	1,90,080.00
iv	Optical line interface card (support min 150 KMS) along with suitable SFP	No.	10	1,74,000.00	17,40,000.00
3	Tributary Cards				
i	E1 interface card (Min. 16 interfaces per card)	No.	426	33,600.00	1,43,13,600.00
ii	Ethernet interfaces 10/100 Mbps with Layer-2 switching (Min.8 interfaces per card)	No.	426	73,200.00	3,11,83,200.00
4	Equipment Cabinets				
i	For SDH Equipment Drop/Insert MUX Equipments and DACS Equipment	No.	213	59,400.00	1,26,52,200.00
5	TMN				
i	Craft Terminal				
a	Hardware	Set	1	1,74,000.00	1,74,000.00
b	Software	Set	1	6,000.00	6,000.00
ii	Network Manager & Element manager system				
a	Hardware	Set	1	14,52,000.00	14,52,000.00
b	Software	Set	1	17,48,000.00	17,48,000.00
c	Printer(Laser Jet)	No.	1	68,000.00	68,000.00
iii	Remote Work Station				
a	Hardware	Set	1	2,70,000.00	2,70,000.00
b	Software	Set	1	42,000.00	42,000.00
6	Synchronization Equipment				
a	GPS clock including all hardware & accessories	Set	1	14,10,000.00	14,10,000.00

S. No	Item Description	UoM	Total Qty	Unit Price Rs.	Total Price Rs.
II	Mandatory Spares for communication equipment				
	SDH Equipment(STM-4 MADM upto 3 MSP protected directions)				
7	Common cards, Cross connect/control cards, Optical base card, Power supply cards, power cabling, other hardware & accessories (each)	No.	6	2,88,000.00	17,28,000.00
8	Optical cards				
i	S 4.1	No.	15	1,200.00	18,000.00
ii	L 4.1	No.	9	1,800.00	16,200.00
iii	L 4.2	No.	3	2,160.00	6,480.00
iv	OLI to support minimum 150 km.	No.	1	1,74,000.00	1,74,000.00
9	Tributary cards				
i	E1 interface card(Min. 16 interfaces per card)	No.	13	33,600.00	4,36,800.00
ii	Ethernet interfaces 10/100 Mbps with Layer-2 switching (Min.8 interfaces per card)	No.	13	73,200.00	9,51,600.00
iii	Pre Connectorized Optical Fibre Patch Cords (10 Mtrs)-Pack Of 6 Patch Cords	Set	6	4,800.00	28,800.00
	Total Material:				14,64,68,980.00
	GST@18%				2,63,64,416.40
	Total for Material with GST				17,28,33,396.40
III	Erection, Testing & Commissioning				
	SDH Equipment(STM-4 MADM upto 3/5 MSP protected directions)				
10	Erection of Base Equipment 3/5 (Common cards, Cross connect/control cards, Optical base card, Optical cards, Tributary cards, Power supply cards, power cabling, other hardware & accessories including sub-racks, patch cords, DDF etc. fully equipped	No.	213	15,000.00	31,95,000.00
11	Erection of Equipment Cabinets for SDH Equipment	No.	213	4,000.00	8,52,000.00
12	TMN				
i	Craft Terminal along with				
	Hardware &Software	Set	1	10,000.00	10,000.00
ii	Network Manager & Element manager system along with				
	Hardware, software & printer (Laser Jet)	Set	1	50,000.00	50,000.00
iii	Remote Work Station along with				
	Hardware & Software	Set	1	10,000.00	10,000.00
13	Synchronization Equipment				
	GPS clock including all hardware & accessories	Set	1	20,000.00	20,000.00
	Total Erection, Testing & Commissioning:				41,37,000.00
	GST@18%				7,44,660.00
	Total for Erection, Testing & Commissioning with GST:				48,81,660.00
	Total for Material, Erection, Testing & Commissioning with GST:				17,77,15,056.40
	Or Say:				17,77,15,056.00

(Rupees Seventeen Crores Seventy Seven Lakhs Fifteen Thousand Fifty-Six only)

sd/-
Chief Engineer/P&MM