

Regd. Post Ack.Due:



TRANSMISSION CORPORATION OF TELANGANA LIMITED

Website: tstransco.in. CIN No. U40102TG20148SGC094248

From
The Chief Engineer/P&MM,
Room No.207, B-Block,
TSTransco,Vidyut Soudha,
Hyderabad – 82.

To
M/s. ABB Power Products and Systems India Ltd.,
Plot No.4A, 5&6, II Phase,
Peenya Industrial Area,
Bangalore – 560058.

SAP.PO.No. 4500003009/558-PM/2021/CE/P&MM/SE/P&MM/ DE-31/

F-TSPMM31-29/2020(RTUs)/D.No.454 , dt.15 .03.2021.

Sirs,

Sub:- TSTRANSCO - P&MM – Telecom - Tender Specn.No.TSPMM31-29/2020 – Supply, Erection, Commissioning, Adaptation and Integration of **9 Nos. REMOTE TERMINAL UNITS** along with interface cabinet, relays, transducers, switches etc., - Detailed Purchase Order - Issued - Reg.

Ref:- 1) Tender Specification No. TSPMM31-29/2020.
2) Your offer on e-platform against Specification No. TSPMM31-29/2020
3) LOI.No.CE/P&MM /SE/P&MM/DE-31/F.TSPMM31-29/2020(RTUs)/D.No.441,
Dt.04 .03.2021

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, vide ref. 2nd cited, against Tender Specification, vide ref. 1st cited for Supply, Erection, Commissioning, Adaptation and Integration of **9 Nos. REMOTE TERMINAL UNITS** along with interface cabinet, relays, transducers, switches etc., is hereby accepted at an evaluated total cost of **Rs. 1,16,63,841.00** (Rupees One Crore Sixteen Lakhs Sixty Three Thousand Eight Hundred and Forty One only) as indicated below and the details are in Annexure-1(Schedule of prices) and Annexure- 2 (Configuration for 9 Nos. RTUs).

1) SCOPE OF CONTRACT:-

This contract relates to Supply, Erection, Commissioning, Adaptation and Integration of **9 Nos. REMOTE TERMINAL UNITS** along with interface cabinet, relays, transducers, switches etc., as detailed under clause (2) below and covers design, manufacture, testing before dispatch and delivery F.O.R. destination and Erection & Commissioning, Adaptation and Integration at site.

- 2) **SCHEDULE OF MATERIALS AND PRICES:** Supply, Erection, Commissioning, Adaptation and Integration of **9 Nos. REMOTE TERMINAL UNITS** along with interface cabinet, relays, transducers, switches etc., (inclusive of Freight, Insurance, Packing & Forwarding and GST) detailed in annexure-1:

Sl. No.	Description	Total Amount (in Rs.)
1	Supply, Erection, Commissioning, Adaptation and Integration of 9 Nos. REMOTE TERMINAL UNITS along with interface cabinet, relays, transducers, switches etc., (Details are in Annexure-1)	1,16,63,841.48
	Total value:	1,16,63,841.48
	Or Say:	1,16,63,841.00
(Rupees One Crore Sixteen Lakhs Sixty Three Thousand Eight Hundred and Forty One 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 above are inclusive of Freight, Insurance, Packing & Forwarding and GST.
- 2.3) The above prices are inclusive of unloading charges at destination stores.
- 2.4) M/s. ABB Power Products and Systems India 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 the 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, 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) **TAX COLLECTION AT SOURCE:** “TCS at prevailing rates is applicable on any payment made (not applicable on Erection and Commissioning charges), 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. The PAN No. of TSTransco is “AAFCT0166J”. The stipulated conditions are to be verified by the DDOs while processing the bills.
- 3) **DELIVERY:** The Supplies shall be completed within 2 months from the date of issue of LOI. Erection & commissioning of the equipment shall be completed within 1 month from the date of supply/readiness of sites as intimated by concerned officer of TSTransco.
- 4) **FREIGHT & TRANSIT INSURANCE:** Insurance will 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 will 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 10% of the total contract value i.e. **Rs. 11,66,384/-** 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 to be executed in accordance with the clause (6) will be furnished on a stamp paper of value Rs. 100/-. The B.G will 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 be extended to a further period of 12 months and the Performance Bank Guarantee for proportionate value will 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) 80% payment towards the equipment cost 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 its receipt in good condition at the destination / stores (i.e., from check measurement date in Form-13) on prorata basis against the submission of the following documents.

- a) Form 13
- b) Contractor's detailed invoice
- c) Delivery Challan Acknowledged by Consignee
- d) Manufacturer's/Supplier's Warranty Certificates
- e) Approved Test Certificates
- f) Copy of Insurance Policy Certificate
- g) Copy of Acceptance Letter of Performance Security issued by Purchaser

One additional copy each of above and the delivery challan shall be sent to the consignees. Copies of the above documents shall be sent to the Chief Engineer/P&MM, TSTransco, Vidyut Soudha, Hyderabad –82 immediately after delivering the materials at the destination stores.

b) 10% payment towards equipment cost will be made after erection of equipment/ material on prorata basis against the submission of invoice.

c) Balance 10% payment towards equipment cost will be made along with the total erection & Commissioning charges after commissioning of equipment/material duly certified by concerned Divisional Engineer/Telecom & Divisional Engineer/ MRT on prorata basis against the submission of invoice.

ii) The Supplier's Bank details are as detailed below for RTGS payment (Real Time Gross settlement).

1.	Vendor Name	M/s. ABB Power Products and Systems India Ltd.
2	Complete Address	M/s. ABB Power Products and Systems India Ltd., Plot No.4A, 5&6, II Phase, Peenya Industrial Area, Bangalore – 560058.
3	Name of the Bank	DEUTSCHE BANK AG.
4	Branch Address	#26-27, Raheja Towers, M.G.Road, Bangalore-560001.
5	Branch Code	002
6	City	Bangalore.
7	Account No.	2057099000
8	MICR Code	560200002
9	IFSC CODE (NEFT/RTGS).	DEUT0797BGL
10	SWIFT CODE	DEUTINBBBGL
11	Income Tax PAN No.	AARCA9513E

The Bank details as above are final and shall not be revoked under any circumstances. The Bank Charges will be made to the account of M/s. ABB Power Products and Systems India Ltd.

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 36 months from the date of check measurement in form-13 i.e., receipt of the material/Equipment in good condition at stores/site.

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 will be extended to a further period of 12 months and the Performance Bank Guarantee for proportionate value will 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.

- 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 technical specification. The packing will 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 will 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:** 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 witnessing acceptance and routine 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.
- 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 TECHNICAL PARTICULARS AND DRAWINGS:**
The Guaranteed Technical Particulars and Drawings approvals will be issued separately.
- 15) **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. TSPMM31-29/2020 which includes the TSTransco's General Terms and conditions of contract' enclosed to the ref (1). "Except as specifically accepted in this order, the terms and conditions mentioned in your quotation under reference are not accepted".
- 16) **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.
- 17) **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.18, 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.

- 18) **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.

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

All correspondence regarding dispatch and payment shall be addressed to the consignee under intimation to the Chief Engineer/P&MM, TSTransco, Vidyut Soudha, Hyderabad-500082.

- 20) **SPARES:** You shall supply any spares required for the equipment that will be supplied under this order, whenever called upon to do so at fair prices and at the TSTransco's standard terms of payment within a period not exceeding the deliveries accepted therein.
- 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 equipments 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 for RTUs and associated equipment at the manufacture's works place for Ten working days at no extra cost to 18 Nos. engineers in the batches of 6 people per batch to be nominated by the purchaser (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. The supplier shall provide boarding, lodging and transportation to the training place as a part of the contract without any additional financial commitment to TSTransco.
- 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 incorrupt 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 Purchase 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.

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 that 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 dispute 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,

Encl: 1. Annexure-1 (Schedule of prices)
2. Annexure-2 (9 Nos. RTUs Configuration)

Sd/-
CHIEF ENGINEER/P&MM
(Acting for and on behalf
of TSTransco)

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

Signature of the Contractor with seal

Copy to the:

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

The Pay Officer/TSTransco/Vidyut Soudha/ Hyderabad

The SAO/ P&A/ TSTransco/Vidyut Soudha/Hyderabad.

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

The Chief Engineer/Telecom/TSTransco/Vidyut Soudha/Hyderabad

The Chief Engineer/SLDC/ TSTransco Vidyut Soudha/Hyderabad

The Chief Engineer /LIS /Vidyut Soudha/Hyderabad.

The Chief Engineer/Zone/Metro/GTS Colony/Erragadda/Hyderabad.

The Chief Engineer/Zone/Rural/GTS Colony/Erragadda/Hyderabad.

The Chief Engineer/Zone/Karimnagar/132/33KVSS Opp. to Court Jagityala road,
Karimnagar-505 001.

The Superintending Engineer/Telecom/Metro/TSTransco /132 kVSS Chilakalaguda/Opp. Gandhi Hospital/Hyderabad

The Superintending Engineer/Telecom/Rural/TSTransco / GTS Colony/ Erragadda/ Hyd.

The Superintending Engineer/Telecom/TSTRANSCO /132/33KVSS Opp. to Court Jagityala road, Karimnagar-505 001.

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

The Superintending Engineer/OMC/132 kVSS Mahaboobnagar/Mettugadda/Hyderabad

The Superintending Engineer/OMC/Sangareddy/ GTS Colony/ Erragadda/Hyderabad.

The Superintending Engineer/OMC/Adilabad/TSTransco/132kVSS Old Mancheryal/ Mancheryal.

The SE/OMC/ Karimnagar/TSTransco/132/33KVSS Opp. to Court Jagityala road, Karimnagar-505 001.

The SAO O/o. SE/OMC/Metro-Central /Hyderabad /TSTransco/NIMS GIS/ Erramanjil/ Hyderabad----- (Through e-mail)

The SAO O/o. S E/OMC/132 kVSS Mahaboobnagar/ Mettugadda/ Hyderabad----- (Through e- mail)

The SAO O/o. Superintending Engineer/OMC/Sangareddy----- (Through e-mail)

The SAO O/o. Superintending Engineer/OMC/Adilabad/TSTransco/132kVSS Old Mancheryal/ Mancheryal----- (Through e-mail)

The SAO O/o. SE/OMC/ Karimnagar/TSTransco -500501----- (Through e-mail)

The Divisional Engineer/Transmission Stores/ TSTransco/ Erragadda/GTS Colony/ Hyd

The Divisional Engineer/Telecom/SLDC/Vidyut Soudha/Hyderabad

The Divisional Engineer/Telecom/Mamidipally/Pahad-e-Sharif/Hyd----- (Through mail)

**** to check measure the equipment at stores

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

The Divisional Engineer/ Telecom/ TSTransco/ 132KVSS/Mahaboob Nagar

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

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

The Asst. Exec. Engineer/Transmission Stores/ TSTransco/ 220KV Substation/ Shapur Nagar/ Hyd.

Tender Specification No.: TSPMM31-29/2020; PO.No.558, Dt.:15 .03.2021

Annexure-1(Schedule of prices)

(All figures are in India Rupees)

Sl. No.	RTU Location	UOM	QTY	unit ex-works price	Freight	Insurance	unit landed price	IGST	Unit FAD price	Total landed Price
I	Material Portion									
A1	Thumilla 132/11 KV SS	No.	1	699000.00	7500.00	200.00	706700.00	127206.00	833906.00	833906.00
2	Regumanugadda 220/11 kv SS	No.	1	729000.00	7500.00	200.00	736700.00	132606.00	869306.00	869306.00
3	Jonnalaboguda 220/11 kV SS	No.	1	776000.00	7500.00	200.00	783700.00	141066.00	924766.00	924766.00
4	Gudipalligattu 220/11 kV SS	No.	1	796000.00	7500.00	200.00	803700.00	144666.00	948366.00	948366.00
5	Nettempadu stage-I (Gudemdoddi 220/11 kV SS)	No.	1	704000.00	7500.00	200.00	711700.00	128106.00	839806.00	839806.00
6	Nettempadu stage-II (Marlaveedu 220/kV SS)	No.	1	681000.00	7500.00	200.00	688700.00	123966.00	812666.00	812666.00
7	Narayanguda 132/33kV GIS	No.	1	736000.00	7500.00	200.00	743700.00	133866.00	877566.00	877566.00
8	OCM 132/33 kVSS	No.	1	657940.00	7500.00	200.00	665640.00	119815.20	785455.20	785455.20
9	Mandamarry 132/33 kVSS	No.	1	924350.00	7500.00	200.00	932050.00	167769.00	1099819.00	1099819.00
B	Accessories									
10	FSK Modem	No.	18	42474.58			42474.58	7645.42	50120.00	902160.08
11	Rack for FSK modem	No.	18	8686.44			8686.44	1563.56	10250.00	184499.99
12	Power Supply Unit for FSK modem	No.	18	7203.39			7203.39	1296.61	8500.00	153000.00
13	8 port Ethernet Switch	No.	18	14406.78			14406.78	2593.22	17000.00	306000.01
C	20% Spares of RTU Configuration									
14	Multi Function Transducer (MFT)	No.	21	5100.00			5100.00	918.00	6018.00	126378.00
15	Multi Function Transducer (OLTC)	No.	13	3100.00			3100.00	558.00	3658.00	47554.00
16	Contact Multiplying Relay(CMR)	No.	152	460.00			460.00	82.80	542.80	82505.60
17	Local/Remote selector Switch (L/R Switch)	No.	20	2550.00			2550.00	459.00	3009.00	60180.00
18	Interposing Relay (I/P Relay)	No.	42	410.00			410.00	73.80	483.80	20319.60
D	RTU Spares (Each set should consist of CPU-1No, DI Cards -4No.s, DO Cards - 2No.s, PSU-1No & Chassis - 1No).									
19	CPU card for LIS SS	No.	3	73900.00			73900.00	13302.00	87202.00	261606.00
20	PSU card for LIS SS	No.	3	18500.00			18500.00	3330.00	21830.00	65490.00
21	DI card for LIS SS	No.	12	10500.00			10500.00	1890.00	12390.00	148680.00
22	DO card for LIS SS	No.	6	8400.00			8400.00	1512.00	9912.00	59472.00
23	Chassis for RTU for LIS SS	No.	3	31000.00			31000.00	5580.00	36580.00	109740.00
E	Laptop for LIS SS along with interface cables	No.	4	85000.00			85000.00	15300.00	100300.00	401200.00
II	Erection & Commission Charges	No.	9	70000.00			70000.00	12600.00	82600.00	743400.00
	Total:									11663841.48
	Or say Rs.:									1,16,63,841.00
(Rupees One Crore Sixteen Lakhs Sixty Three Thousand Eight Hundred and Forty One only)										

**Sd/-
Chief Engineer/P&MM**

Tender Specification No.: TSPMM31-29/2020; P.O.No.558, Dt.: 15.03.2021						
Annexure-2 Configuration for 29No.s RTUs						
S. No.	Name of RTU Sub-station	Configuration				
		MFT	MFT (OLTC)	CMR	L/R Switch	I/P Relay
1	Thumilla 132/11 KV SS	5	2	39	5	10
2	Regumanugadda 220/11 kv SS	16	7	72	14	28
3	Jonnalaboguda 220/11 kV SS	11	7	85	11	22
4	Gudipalligattu 220/11 kV SS	11	7	87	11	22
5	Nettempadu stage-I (Gudemdoddi 220/11 kV SS)	8	4	84	10	20
6	Nettempadu stage-II (Marlaveedu 220/kV SS)	7	3	67	9	18
7	Narayanguda 132/33kV GIS	11	2	86	13	26
8	132/33 kVSS OCM	8	3	68	8	16
9	132/33 kVSS Mandamarry	14	6	164	16	32
	Total:	91	41	752	97	194
20% Spares						
1	Thumilla 132/11 KV SS	2	1	8	2	4
2	Regumanugadda 220/11 kv SS	4	2	15	2	6
3	Jonnalaboguda 220/11 kV SS	2	2	17	2	4
4	Gudipalligattu 220/11 kV SS	2	2	17	2	4
5	Nettempadu stage-I (Gudemdoddi 220/11 kV SS)	2	1	17	2	4
6	Nettempadu stage-II (Marlaveedu 220/kV SS)	2	1	14	2	4
7	Narayanguda 132/33kV GIS	2	1	17	3	6
8	132/33 kVSS OCM	2	1	14	2	4
9	132/33 kVSS Mandamarry	3	2	33	3	6
	Total 20% Spare:	21	13	152	20	42
	Grand Total	112	54	904	117	236

Sd/-
Chief Engineer/P&MM