

Enquiry



Bharat Heavy Electricals Limited
Transmission Business Group
Materials Management

Enquiry No	Enquiry Dt	Rev No	Rev Dt	PI No	Due Dt	Delivery Requirement
173G016	02-Nov-13	0			04-Dec-13	

Document Enclosed

- Technical Specifications
- Terms & Conditions for Indigenous Enquiry
- Activity Schedule
- Schedule of Information (checklist) to be furnished
- Schedule of Commercial Deviation
- Schedule of Technical Deviation

Project	Equipment	Phy Unit	Qty	Unit Exworks	% ED	% CST	% VAT	Unit F&I	Plan Dt	Comments
TANTRANSCO THAPPAGUNDU SS	CONTROL PANELS PROTECTION PANELS & SUBSTATION AUTOMATION SYSTEM	LOT	1	✓	✓	✓	✓	✓	15-Jun-14	AS PER TECHNICAL SPECIFICATION DOCUMENT NO. TB-363-510-011, REV 00
TANTRANSCO THAPPAGUNDU SS	400 KV feeder relay panel	No	2	✓	✓	✓	✓			
TANTRANSCO THAPPAGUNDU SS	400/110 KV Auto transformer relay panel	No	4	✓	✓	✓	✓			
TANTRANSCO THAPPAGUNDU SS	400 KV Bus Reactor relay panel	No	1	✓	✓	✓	✓			
TANTRANSCO THAPPAGUNDU SS	400 KV Tie breaker panel for lines	No	1	✓	✓	✓	✓			
TANTRANSCO THAPPAGUNDU SS	400 KV Tie breaker panel for Transformer / Reactor	No	3	✓	✓	✓	✓			
TANTRANSCO THAPPAGUNDU SS	400 KV Bus bar protection relay panel	No	1	✓	✓	✓	✓			
TANTRANSCO THAPPAGUNDU SS	110 KV Bus bar protection relay panel	No	1	✓	✓	✓	✓			
TANTRANSCO THAPPAGUNDU SS	110 KV Feeder relay panel with Under- frequency Relay	No	1	✓	✓	✓	✓			
TANTRANSCO THAPPAGUNDU SS	110 KV Feeder relay panel without Under-frequency Relay	No.	7	✓	✓	✓	✓			
TANTRANSCO THAPPAGUNDU SS	110 KV Bus coupler breaker relay panel	No	1	✓	✓	✓	✓			
TANTRANSCO THAPPAGUNDU SS	Synchronizing panel	No	2	✓	✓	✓	✓			
TANTRANSCO THAPPAGUNDU SS	SAS- Bay Control Unit for Substation Auxiliary system (with 64 Digital Inputs, 24 Digital outputs and 16 Analog Inputs (110V/1A/ 4-20 mA)	Lot	1	✓	✓	✓	✓			
TANTRANSCO THAPPAGUNDU SS	SAS- Industrial grade computer for station HMI (Complete with computer,KB,Mouse,500GB HDD, 29" TFT Monitor, All relevant software for applications, operating system)	Nos.	2	✓	✓	✓	✓			
TANTRANSCO THAPPAGUNDU SS	SAS- Engineering work station (Complete with Industrial grade computer, KB Mouse, 500GB HDD,29" TFT Monitor, All relevant Software, operating system)	No.	1	✓	✓	✓	✓			
TANTRANSCO THAPPAGUNDU SS	Metering PC (Complete with Industrial grade computer,KB,Mouse,500GB HDD, 29" TFT Monitor, All relevant software for applications, operating system)	No.	1	✓	✓	✓	✓			
TANTRANSCO THAPPAGUNDU SS	Gateway Panel (Complete with panel, gateway device, Hooter-2nos for substation urgent & non-urgent alarms)	No.	1	✓	✓	✓	✓			
TANTRANSCO THAPPAGUNDU SS	Communication equipment (Complete with MODEMs, Lightning arrester for MODEM, media interface device etc for gateway redundant interface to LDC)	sets	2	✓	✓	✓	✓			
TANTRANSCO THAPPAGUNDU	Ethernet Switch (20% spare ports in each switch)	Lot	1	✓	✓	✓	✓			

Project	Equipment	Phy Unit	Qty	Unit Exworks	% ED	% CST	% VAT	Unit F&I	Plan Dt	Comments
SS										
TANTRANSCO THAPPAGUNDU SS	General printer (A3 Color LASER Jet Printer)	No.	1	✓	✓	✓	✓	✓		
TANTRANSCO THAPPAGUNDU SS	Report printer (A4 Color LASER Jet Printer)	No.	1	✓	✓	✓	✓	✓		
TANTRANSCO THAPPAGUNDU SS	LAN accessories (Includes all cables and associated cable ducts, media converters etc for LAN)	Lot	1	✓	✓	✓	✓	✓		
TANTRANSCO THAPPAGUNDU SS	Time synchronization system (GPS with all accessories, Antenna, cables, software etc)	Set	1	✓	✓	✓	✓	✓		
TANTRANSCO THAPPAGUNDU SS	Configuration tools for SAS equipments (Includes Laptop computer, relevant software tools, accessories for configuration of SAS devices, protection panel devices.)	Set	1	✓	✓	✓	✓	✓		
TANTRANSCO THAPPAGUNDU SS	Numeric relay testing kit with all associated software (suitable for testing of numeric relays) of reputed make with IEC61850 software for GOOSE subscription & publishing, rugged carry case and necessary accessories. (OMICRON CMC356 /MEGGAR	Set	1	✓	✓	✓	✓	✓		
TANTRANSCO THAPPAGUNDU SS	Relevant manuals as per SA (Substation Automation) specification.	Lot	1	✓	✓	✓	✓	✓		
TANTRANSCO THAPPAGUNDU SS	Furniture: Chair suitable for operator-revolving type	Nos.	3	✓	✓	✓	✓	✓		
TANTRANSCO THAPPAGUNDU SS	Furniture: Tables for SAS operator – 2Nos; Table for Engg. WS & Metering PC : 2nos.	Lot	1	✓	✓	✓	✓	✓		
TANTRANSCO THAPPAGUNDU SS	Furniture: Tables with drawers suitable for housing all the drawings & manuals of the SAS and protection system.	Lot	1	✓	✓	✓	✓	✓		
TANTRANSCO THAPPAGUNDU SS	UPS (VA rating should be 150% of load to supply for 2 Hours. Load includes SAS servers, SAS LAN devices, Engineering work station.)	No.	1	✓	✓	✓	✓	✓		
TANTRANSCO THAPPAGUNDU SS	Armoured Fiber Optic Cable for integration of SAS and Bus bar protection system.	m	1000	✓	✓	✓	✓	✓		
TANTRANSCO THAPPAGUNDU SS	Installation, Testing & commissioning of complete SAS for 400KV/110KV SS (Comprising 24 Electrical bays) as per BOQ given in Section-1 of Technical Specification document	Bays	24	✓	✓	✓	✓	✓		
TANTRANSCO THAPPAGUNDU SS	Training for SAS as per Clause XIII of section-2 of Technical specification document	Lot	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	CONTROL PANELS PROTECTION PANELS & SUBSTATION AUTOMATION SYSTEM	LOT	1	✓	✓	✓	✓	✓		AS PER TECHNICAL SPECIFICATION DOCUMENT NO. TB-364-510-011, REV 00
TANTRANSCO ANIKADAVU SS	400 KV feeder relay panel	No	4	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	400 /230 KV Auto transformer relay panel	No	3	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	400/110 KV Auto transformer relay panel	No	2	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	400 KV Tie breaker panel for lines	No	2	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	400 KV Tie breaker panel for Transformer	No	3	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	400 KV Bus bar protection relay panel	No	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	230 KV Feeder relay panel with U/F relay	No	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	230 KV Feeder relay panel without U/F relay	No	5	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	230 KV Bus coupler breaker relay panel	No	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	230 KV Bus bar protection relay panel	No	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	110 KV Bus bar protection relay panel	No	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	110 KV Feeder relay panel with Under-frequency relay	No	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	110 KV Feeder relay panel without Under-frequency relay	No.	3	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	110 KV Bus coupler breaker relay panel	No	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	Synchronizing panel	No	2	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	SAS- Bay Control Unit for Substation Auxiliary system (with 64 Digital Inputs, 24 Digital outputs and 16 Analog Inputs (110V/1A/ 4-20 mA)	Lot	1	✓	✓	✓	✓	✓		

Project	Equipment	Phy Unit	Qty	Unit Exworks	% ED	% CST	% VAT	Unit F&I	Plan Dt	Comments
TANTRANSCO ANIKADAVU SS	SAS- Industrial grade computer for station HMI (Complete with computer,KB,Mouse,500GB HDD, 29" TFT Monitor, All relevant software for applications, operating system)	Nos.	2	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	SAS- Engineering work station (Complete with Industrial grade computer, KB Mouse, 500GB HDD,29" TFT Monitor, All relevant Software, operating system)	No.	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	Metering PC (Complete with Industrial grade computer,KB,Mouse,500GB HDD, 29" TFT Monitor, All relevant software for applications, operating system)	No.	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	Gateway Panel (Complete with panel, gateway device, Hooter-2nos for substation urgent & non-urgent alarms)	No.	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	Communication equipment (Complete with MODEMs, Lightning arrester for MODEM, media interface device etc for gateway redundant interface to LDC)	sets	2	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	Ethernet Switch (20% spare ports in each switch)	Lot	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	General printer (A3 Color LASER Jet Printer)	No.	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	Report printer (A4 Color LASER Jet Printer)	No.	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	LAN accessories (Includes all cables and associated cable ducts, media converters etc for LAN)	Lot	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	Time synchronization system (GPS with all accessories, Antenna, cables, software etc)	Set	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	Configuration tools for SAS equipments (Includes Laptop computer, relevant software tools, accessories for configuration of SAS devices, protection panel devices.)	Set	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	Numeric relay testing kit with all associated software (suitable for testing of numeric relays) of reputed make with IEC61850 software for GOOSE subscription & publishing, rugged carry case and necessary accessories. (OMICRON CMC356 /MEGGAR	Set	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	Relevant manuals as per SA (Substation Automation) specification.	Lot	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	Furniture: Chair suitable for operator-revolving type	Nos.	3	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	Furniture: Tables for SAS operator – 2Nos; Table for Engg. WS & Metering PC : 2nos.	Lot	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	Furniture: Tables with drawers suitable for housing all the drawings & manuals of the SAS and protection system.	Lot	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	UPS (VA rating should be 150% of load to supply for 2 Hours. Load includes SAS servers, SAS LAN devices, Engineering work station.)	No.	1	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	Armoured Fiber Optic Cable for integration of SAS and Bus bar protection system.	m	1000	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	Installation, Testing & commissioning of complete SAS for 400KV/230/110KV SS (Comprising 31 Electrical bays) as per BOQ given in Section-1 of Technical Specification document	Bays	31	✓	✓	✓	✓	✓		
TANTRANSCO ANIKADAVU SS	Training for SAS as per Clause XIII of section-2 of Technical specification document	Lot	1	✓	✓	✓	✓	✓		

You are requested to submit your most competitive offer so as to reach us positively by the tender opening date & time. THE TENDERS NOT RECEIVED WITHIN SCHEDULED DATE AND TIME ARE LIKELY TO BE IGNORED. BHEL shall not be responsible for any postal delay.

IN YOUR OWN INTEREST YOU ARE ADVISED TO CAREFULLY READ "THE INSTRUCTIONS TO BIDDERS". INCOMPLETE BIDS AND/OR BIDS NOT COMPLYING WITH TENDER CONDITIONS SHALL BE TREATED AS NON RESPONSIVE AND ARE LIKELY TO BE IGNORED.

In case Tender Documents are not received within 7 days of this E-mail message, intimate BHEL accordingly. If no intimation is received, it will be considered that you have received tender enquiry and delay in submission offer due to late receipt of tender documents will not be entertained.

YOU ARE REQUESTED TO SUBMIT YOUR MOST COMPETITIVE OFFER SO AS TO REACH US POSITIVELY BY 2 PM ON THE TENDER OPENING DATE AND TENDER WILL BE OPENED AT 2:30 PM WITH EFFECT FROM 15-SEP-09.

BHEL RESERVES THE RIGHT TO OPT FOR REVERSE AUCTION FOR OBTAINING BEST PRICES.

OFFERS THROUGH E-MAIL / FAX:

WHOSOEVER DESIRES TO SEND OFFERS ON THEIR OWN RISK (COMPLETE IN ALL RESPECTS) VIA E-MAIL or FAX HAVE TO SEND THE OFFERS TO THE COMMON E-MAIL ADDRESS tenderbox@bhelindustry.com or 011-24365869 FAX .

THE RECEIVED EMAIL OFFERS WILL BE PRINTED BY PURCHASE COORDINATOR AND PUT THEM INTO COVERS AS PER CONVENTIONAL METHOD FOR TENDER OPENING I.E., TECHNO COMMERCIAL & PRICE OFFER SHALL BE PUT INTO TWO SEPARATE COVERS AND BOTH THE COVERS ARE KEPT IN THIRD COVER DULY SUPER SCRIBING ENQY. NO. AND DUE DATE.

OFFERS SENT TO ANY OTHER E-MAIL ID or FAX NO AND INCOMPLETE OFFERS SHALL NOT BE CONSIDERED FOR EVALUATION PURPOSE.

It is suggested that the bidders are advised to send the files with 'password protection'. procedure for giving a password to a file has been given below:

For saving Excel file with password

Steps to be followed:

1. Click on the FILE option in XP system and Start sign in Vista system then go to SAVE AS option.
2. Select the location to save and Click on the TOOLS box and go to GENERAL OPTION.
3. It will ask for the password, type the password into open or modify box or both as required.
4. Then click on the OK button it will ask for reenter of the password.
5. After reentering the password click on the save box.

For saving Word file with password

Steps to be followed:

1. Click on the FILE option in XP and Start sign in Vista then go to SAVE AS option.
2. Select the location to save and Click on the TOOLS box and go to SECURITY OPTION in XP system and GENERAL OPTION in Vista system.
3. It will ask for the password, type the password into open or modify box or both as required.
4. Then click on the OK button it will ask for reenter of the password.
5. After reentering the password click on the save box.

The vendors who has sent offers with password,the passwords are to be forwarded to another email id:supplierinfo@bhelindustry.com

MSME STATUS

"THOSE INDUSTRIES WHO HAVE FILED A MEMORANDUM WITH THE CONCERNED AUTHORITIES AND REGISTERED AS MICRO & SMALL ENTERPRISE UNDER MICRO, SMALL AND MEDIUM ENTERPRISES DEVELOPMENT ACT 2006, HAVE TO SUBMIT A COPY OF SUCH REGISTRATION CERTIFICATE / MEMORANDUM TO BHEL FOR NECESSARY COMPLIANCES OF THE ABOVE ACT".

Please acknowledge the receipt of tender enquiry and fax back this letter by ticking the appropriate item below.

for BHARAT HEAVY ELECTRICALS LTD

We acknowledge the receipt of tender.

- (a) The offer against subject enquiry shall be submitted by the scheduled date and time.
- (b) We regret to quote. The item in reference is out of our manufacturing range.
- (c) We regret because of our prior commitments.
- (d) Any other reason.

To
R.K.Gangal
Sr.Manager
BHARAT HEAVY ELECTRICALS LIMITED
TRANSMISSION BUSINESS GROUP
TOWER-A,5th Floor,
Advant Navis IT Business Park,
Plot No-7,Sector-142,Expressway Noida
Noida-201305
Distt. Gautam BudhNagar,U.P

Ph: 011-41793297 / 24302297
Fax: 011-24365869

Signature and Seal of Tenderer

Enquiry No : 173G016 Enquiry Dt : 02-Nov-13