



Bharat Heavy Electricals Limited

(A Govt. Of India Undertaking)

Power Sector, Eastern Region

1X660 MW SgTPP, Sagardighi, Murshidabad, West Bengal

NOTICE INVITING TENDER (NIT)

Sealed offers are invited through hard copy mode, for the subject job by the undersigned on the behalf of BHARAT HEAVY ELECTRICALS LIMITED.

ISSUE OF TENDER TO ANY BIDDER SHALL NOT CONSTRUCT THAT THE BIDDER IS CONSIDERED TO BE QUALIFIED. FOLLOWING POINTS RELEVANT TO THE TENDER MAY PLEASE BE NOTED AND COMPLIED WITH:

Salient Features of NIT

SL NO	ISSUE	DESCRIPTION
1	TENDER NUMBER	Ref: BHEL: PSER: SGD: C & I: Descop –NIT- 04
2	Broad Scope of job	Handling at Site stores, Storage Yard, Transportation to site of work, Erection, Calibration Checking, Testing & Commissioning of Control; Instrumentation System including SG& Auxiliaries, TG & Auxiliaries, BOP, Station C&I, Fire Detection System, SCR & FGD at 1×660 MW Unit-5, SGTPP (Phase-III).
3	DETAILS OF TENDER DOCUMENT	
3.1	VOL - I	Technical Conditions of contract
3.2	PART- E	No Deviation Certificate
3.3	PART- F	PRICE BID & UNPRICED PRICE BID
3.4	PART- G	Forms & Procedures
4	COST OF TENDER	NIL
5	DUE DATE & TIME OF OFFER SUBMISSION	31.07.2026 at 15:00 Hrs.
6	EMD AMOUNT	Nil
7	OPENING OF TENDER	31.07.2026 at 17:00 Hrs.
8	OFFER DESCRIPTION	DOCUMENTS TO BE SUBMITTED & MODALITY
9	TECHNICAL OFFER	1. Copy of Entire tender documents signed & stamped in each page by authorized representative of the bidder except price bid. 2. No deviation certificate in bidders letter head as per format given in Tender.

10	Unpriced BID	1. Price bid –Unpriced but mentioning only quoted / unquoted against each item as per tender.
11	PRICE BID	1. Duly filled in Price bid as per tender. Any other document submitted in the price bid, apart from tendered Price Bid, shall not be taken into cognizance for evaluation of offer.

You are requested to submit your most competitive offer for Handling at Site stores, Storage Yard, Transportation to site of work, Erection, Calibration Checking, Testing & Commissioning of Control; Instrumentation System including SG& Auxiliaries, TG & Auxiliaries, BOP, Station C&I, Fire Detection System, SCR & FGD at 1×660 MW Unit-5, SGTPP (Phase-III).

SPECIAL NOTE:

1. Offers are invited in two- parts only. Only Hard copy bid shall be accepted. Bids are invited in two parts & shall be submitted as described below:

Envelope-1 will contain all document except Price Bid which will be sealed in a separate Envelope-2. Then Envelope-3 will contain sealed document of Envelope-1 &2.

- A) Your offer & documents submitted with the offer shall be signed and stamped in each page by your authorized representative. No overwriting / correction in tender documents by bidders shall be allowed. However, if correction is unavoidable, the same may be signed by authorized signatory.
 - B) All documents / annexure submitted with the offer shall be properly annexed and placed in respective places of the offer as per enclosure list mentioned in the covering letter. BHEL shall not be responsible for any missing documents.
2. No deviation with respect to tender clauses and no additional clauses/ suggestions/clarification in Techno-commercial bid/Price bid shall normally be considered by BHEL. Bidders are requested to positively comply with the same. Offers with deviation are liable for rejection.
 3. BHEL reserves the right to accept or reject any or all offer without assigning any reasons thereof. BHEL also reserve the right to cancel the offer wholly or partly without assigning any reason thereof.
 4. You have to visit the site and study the prevailing site condition including law & order etc. before quoting (if applicable).
 5. For any clarification on the tender document, you may seek the same in writing as per specified format within the last date of seeking clarification as per tender. BHEL shall not be responsible for receipt of queries after due date of seeking clarification due to postal delay, and receipt of any query after due date shall not be entertained.
 6. BHEL may decide holding Pre-bid Discussion [PBD] with all intending bidders. On such communication from BHEL, the bidder shall ensure participation for the same at the appointed time, date and place as may be decided by BHEL. Outcome of PBD (if any) shall also form part of tender.
 7. In case of absence of any queries from bidder(s), their quoted price will be PRESUMED to be final and complete with reference to the tender documents (including Tender change notes (TCNs), clarifications, corrigendum issued by BHEL, if any). Bidders are requested to study the tender documents in detail and prepare their queries /clarifications accordingly. All such queries / clarifications shall be cleared/replied by BHEL. Such clarification letters, corrigendum and/or Tender change notes (TCNs), if issued by BHEL, shall form part of tender document.
 8. In the event of any conflict between requirement of any clause of this specification/ documents /drawings/data sheets etc or requirements of different codes/ standards specified/ contradictions between any two clauses of tender document, the same to be brought to the knowledge of BHEL by bidders for clarification before due date of seeking clarification, otherwise, more stringent requirement as may be interpreted by BHEL shall

prevail and shall be binding on you. Any typing error/missing pages/ other clerical errors in the tender documents, noticed by you must be pointed out before submission of offer, or else, BHEL's interpretation shall prevail & binding on you.

9. Unless specifically mentioned otherwise, bidder's quoted price shall have deemed to be in compliance with tender including PBD.
10. Tender document containing above mentioned volumes shall be signed & stamped in all pages including this covering letter. Price bid shall be furnished in the specified format enclosed with the tender. Any additional copy, if required, may be taken by photocopying from the tender document given in the web.
11. While BHEL reserve the right to open the price bid of the offers in camera, the date & time to open the PRICE BID, tender opening shall be intimated to the bidders in case BHEL decides it to be 'Public opening' and in such a case, one authorized representative of the bidder shall be allowed to attend.
12. Overwriting or erasures should be avoided. If however, they exist they must be invariably attested.
13. Bidders are required to submit their BEST price as per tender Price Schedule format. Price Bids shall be evaluated in the manner as prescribed in Price Schedule.
14. Taxes and duties shall be as per tender. Statutory variation of taxes and duties (plus or minus) in accordance with Govt. Notifications to the account of BHEL. Any imposition of new / additional Duty / Tax during execution shall be borne by BHEL.
15. Bidders are required to submit price as per tender Price Bid format in hard copy bid submission in the form & manner as mentioned in tender. The successful bidder, as per BHEL's standard practice & BHEL's decision in this regard will be final and binding on bidder.
16. Bidders are requested to note that the accepted / agreed tender terms (technical, commercial or on Reverse Auction) in their original offer cannot be altered / withdrawn by their own during the processing of tender.
17. Unsolicited discounts received after opening of techno-commercial bid shall not be considered for evaluation. However, if the party who has submitted the unsolicited discount/rebate becomes the L-1 party, then the awarded price shall be after considering the discount.
18. The Bidder along with its associate/collaborators/sub-contractors/sub-vendors/ consultants/service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice.
19. Suspension of Business dealings with Suppliers/ Contractors: BHEL reserves the right to act against contractors who fail to perform or indulge in malpractices, by suspending business dealings with them as detailed in Annexure-II.
20. Any deviation sought by the bidder should be indicated in the techno-commercial offer.
21. Bidder should write "accepted" in the column "supplier confirmation" for each clause, if the conditions are agreeable or else should write the deviations sought in "deviation" column. If any clause left blank, shall be construed as, the clause is accepted by the bidder.
22. Supplier shall furnish specific conformance to all material specifications and terms and conditions (General and Special) mentioned hereunder as well as appearing in Annexures enclosed as acceptable to them along with their offer. Offers with deviation(s) are liable for rejection.
23. Splitting Tender: Rates of L-1 bidder, as finalized, shall be counter offered to the other bidders in case of splitting of order. In case any bidder(s) do not accept the L-1 rates, the counter-offer may be extended to other bidders.

24. LD CLAUSE----- APPLICABLE

25. Order of Precedence: In the event of any ambiguity or conflict between the Tender Documents, the order of precedence shall be in the order below:
 - a. Amendments/Clarifications/Corrigenda/Errata etc. issued in respect of the tender documents by BHEL
 - b. Notice Inviting Tender (NIT).
 - c. Price Bid & Unpriced Price Bid –
 - d. Technical condition of contract Volume-I

For all clarifications/issues related to the tender, please contact:

Name	Ashish Kr Sharma
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Dept:	C & I, SgTPP,
Address:	1x660MW SgTPP, Sagardighi, Murshidabad, West Bengal.
Phone:(Landline/Mobile)	9493499478
Email:	Ashishk.sharma@bhel.in

Thanking you,

Yours faithfully,

For BHARAT HEAVY ELECTRICALS LTD

(TO BE SUBMITTED IN BIDDER'S LETTER HEAD ONLY)
PART – E

To
Bharat Heavy Electricals Limited, 2x660 MW
SgTPP, Sagardighi, Murshidabad, West Bengal

Sub: NO DEVIATION CERTIFICATE

Sub: Tray Work, Cable Laying, Termination, Junction Box Installation work: - Handling at site & store/storage yard, transportation to site of work, complete erection, testing, commissioning and handing over at 1X660MW, Phase-III, Unit-5, Sagardighi Thermal Power Project, Murshidabad, West Bengal.

TENDER NO: Ref: BHEL: PSER: SGD: C & I: **Descop –NIT- 04**

Dear Sirs,

With reference to above, this is to confirm you that we have gone through each and every terms and conditions mentioned in the enquiry (Terms and conditions) and we offer our unqualified acceptance of the same. We also confirm that we have not changed/modified the tender documents as appeared in the website and in case of observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred Tender and confirm our acceptance to reverse auctioning process and we hereby convey our unqualified acceptance to all terms and conditions as stipulated in the tender and NIT.

We do not have any objections to splitting the quantity among the different bidders by BHEL.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void.

We confirm to have submitted offer strictly in accordance with tender instructions. Thanking
you,

Yours faithfully,

(Signature, date & seal of authorized
representative of the contractor)

ANNEXURE - I**PRE-QUALIFICATION CRITERIA**

JOB	Handling at Site stores, Storage Yard, Transportation to site of work, Erection, Calibration Checking, Testing & Commissioning of Control; Instrumentation System including SG& Auxiliaries, TG & Auxiliaries, BOP, Station C&I, Fire Detection System, SCR & FGD at 1×660 MW Unit-5, SGTPP (Phase-III).
TENDER NO	Ref: BHEL: PSER: SGD: C & I: Descop –NIT- 04
SL NO	CRITERIA
1.0	FINANCIAL CRITERIA
1.1	Copies of GST Certificate, PAN Copy and Trade License shall be furnished along with Tender document.
2.0	TECHNICAL CRITERIA
2.1	Bidder should have experience of at least one years “C& I / Electrical Works” related to power plant, ending on the latest date of BID submission. Relevant document in support of the above shall be submitted.

PART - F, UNPRICED BID
(Price Not Be Mentioned Anywhere in this document)

NAME OF JOB: Handling at Site stores, Storage Yard, Transportation to site of work, Erection, Calibration Checking, Testing & Commissioning of Control; Instrumentation System including SG& Auxiliaries, TG & Auxiliaries, BOP, Station C&I, Fire Detection System, SCR & FGD at 1×660 MW Unit-5, SGTPP (Phase-III).

✓ Item Description/Specification (Table-A):

BB U NO.	DESCRIPTION	QTY for Tender	UNIT OF MEASUREMENT	UNIT RATE	Estimated Value for Tender in Rs
A.1	CABLE TRAYS 50MM	650	Mtr		
A.2	CABLE TRAYS 100MM	650	Mtr		
B.1	1P-2P /2C/3C/4C upto 2.5 sqmm	50000	Mtr		
B.2	4P/5C-8C X upto 2.5 SQMM	40000	Mtr		
B.3	2C-7C above 2.5 sqmm to 4.0 sqmm	4446	Mtr		
B.4	9C-16C/5P-8P upto 2.5 sqmm	65000	Mtr		
B.6	12P/17C - 24C upto 2.5 sqmm	3000	Mtr		
B.8	16P-24P upto 2.5 sqmm	3000	Mtr		
B.13	Multicore Fiber Optic Cable (laying excluding termination)	9750	Mtr		
B.14	4P UTP cable/Ethernet Cable	650	Mtr		
B.17	1CX16/25 SQMM	325	Mtr		
C.3	JUNCTION BOX - 24 Way	15	Mtr		
C.15	Junction Boxes for TT	20	Mtr		
D.1	AS/CS Impulse pipe ASTM A106 GR C 1" /1.5- i n c h NB up to SCH 160	80	Mtr		
D.2	AS/CS Impulse pipe A106 GR C/T91/T92/B47 upto3/4" NB upto SCH 160	700	Mtr		
D.3	Impulse pipe A335 P91/A106/T91/T92 1/2" NB SCH XXS	65	Mtr		
D.4	SS Impulse pipe/seamless tube/SS PIPE A213 TP316H upto1" upto SCH 160/T91/T92	325	Mtr		
D.7	COPPER TUBE/SS TUBE (UPTO 12MM OD)	200	Mtr		
D.10	SS Tube 12.7x2.1	325	Mtr		
D.11	AS/CS /SS above 1.5" upto Pipe 2.5"	279.5	Mtr		
D.12	GI PIPE 15 to 20 NB/GI PIPE 1/2"NB to 3/4"	650	Mtr		
D.13	GI PIPE 25 to 40 NB/ GI PIPE 1" NB TO 1.5"NB	325	Mtr		
D.14	GI/PVC Conduit upto 1" (flexible & rigid)	150	Mtr		

D.15	GI / PVC /HDPE Conduit above 1" (flexible & rigid)	1625	Mtr		
G.5.1	LIE TYPE A/LIE TYPE B/LIE TYPE C/LIR TYPE A/LIR TYPE B/LIR TYPE C/LIR TYPE D/LOCAL GAUGE BOARD/Turbine instrument racks/ PW/Seal oil ins rack/local instrument racks	9	Pc		
H.4	RTD (PRT, CRT, MINIATURE RTD, ETC.)/DUPLEX RTD(2WIRE//3 WIRE/4WIRE) with/without Thermowell.	50	Pc		
H.6	THERMOMETER/ Bimetallic Thermometer/ Gas filled Thermometer/ Temperature Indicator/ Contact Temp. Indicator/Temp. gauge (capillary as well as non capillary type/ bimetallic/ gas filled)/ with/without thermowell.	30	Pc		
H.9	Pressure Transmitter / Differential Pressure Transmitter/ Absolute Pr. Transmitter/vacuum Transmitters- Electronic transmitter / Temperature Transmitter with element/Vibration Transmitter/Speed Transmitter/Smart milli volt Transmitter	70	Pc		
H.13	Level switch (Float type/capacitance type/ conductivity type)/Differential Pressure Indicator cum Switch/Level Detector. Including erection of pressure vessel and control JB for CRH drain pot.	25	Pc		
H.20	Solenoid Valve(2 WAY/3 WAY/4 WAY)	25	Pc		
H.28	Proximity probe/piezo electric probe/LVDT /Phase Marker for VMS/TSI system including Driver, Ext cable, mounting brackets/pads and JBs.	32	Pc		
H.29	SOx/Nox/CO/CO2 Analyser(LT/HT)	5	Pc		
H.30	Oxygen Analyser(LT/HT) including probe & Auto calibration unit.	3	Pc		
H.31	Opacity Monitor / Smoke Density Analyser / Dust Analyser	4	Pc		
H.38	NH3 Analyzer	3	Pc		
O.4	Multisensor Detectors	81	Pc		
O.5	Air Sampling Detectors	7	Pc		
O.6	Infrared Detectors with Air Purge Unit	36	Pc		
O.7	Infrared Flame Detector	4	Pc		
O.8	Laying (without termination) of Optical LHS Cable	3900	Pc		
O.9	Termination of Optical LHS Cable (Cable termination accessories like cable lugs, glands & ferrules shall be supplied by BHEL, Any other items as required, are to be supplied by the successful bidder)	33	Pc		
O.10	Optical LHS Controller (4 channel)	33	Pc		

O.11	Manual Call Points	33	Pc		
O.12	Control Modules	162	Pc		
O.13	Hooter cum Strobe	29	Pc		
O.14	Response Indicators	20	Pc		
O.15	Exit Sign (Backlit)	23	Pc		
O.16	PC, Printer	2	Pc		
O.18.1	Laying and termination of Control Cable - 2C X 1.5 SQMM Fire Survival MICA Type	13000	Mtr		
O.18.2	Laying and termination of Power Cable - 3C X 2.5 SQMM Copper Conductor, Fire Survival MICA Type	3250	Mtr		
O.19	Fabrication and erection of Structural steel supports for pipes, equipment, cylinders etc.; platforms & misc structural works for completion of all systems of fire protection & detection system. (Free issue of Structural steel by BHEL)	3	Ton		
Estimated Value					

TOTAL AMOUNT (INR) in words:

NOTE TO BIDDERS: -

1. Bidder to note overwriting is not allowed.
2. Detail scope of work will be as per NIT
3. BOQ items are approximate and may vary. $\pm 30\%$ of the above-mentioned quantity.
4. GST shall be paid extra upon receipt of valid GST invoice duly verified by our Site Finance. Payment of GST can only be made after receipt of GST credit from GST council. Any ambiguity found in GST invoice shall cripple the payment of GST to the bidder and purchaser decision is final and bounding.

Name of the Bidder:

Signature of Bidder:

Designation:

Date:

PART - F , PRICE BID**(This document is to be submitted in a separate sealed envelope after filling)**

NAME OF JOB: Handling at Site stores, Storage Yard, Transportation to site of work, Erection, Calibration Checking, Testing & Commissioning of Control; Instrumentation System including SG& Auxiliaries, TG & Auxiliaries, BOP, Station C&I, Fire Detection System, SCR & FGD at 1×660 MW Unit-5, SGTPP (Phase-III).

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B.4	9C-16C/5P-8P upto 2.5 sqmm	65000	Mtr		
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B.13	Multicore Fibre Optic Cable (laying excluding termination)	9750	Mtr		
B.14	4P UTP cable/Ethernet Cable	650	Mtr		
B.17	1CX16/25 SQMM	325	Mtr		
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C.15	Junction Boxes for TT	20	Mtr		
D.1	AS/CS Impulse pipe ASTM A106 GR C 1" /1.5- i n c h NB upto SCH 160	80	Mtr		
D.2	AS/CS Impulse pipe A106 GR C/T91/T92/B47 upto 3/4" NB upto SCH 160	700	Mtr		
D.3	Impulse pipe A335 P91/A106/T91/T92 1/2" NB SCH XXS	65	Mtr		

D.4	SS Impulse pipe/seamless tube/SS PIPE A213 TP316H upto 1" upto SCH 160/T91/T92	325	Mtr		
D.7	COPPER TUBE/SS TUBE (UPTO 12MM OD)	200	Mtr		
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H.4	RTD (PRT, CRT, MINIATURE RTD, ETC.)/DUPLEX RTD(2WIRE//3 WIRE/4WIRE) with/without Thermowell.	50	Pc		
H.6	THERMOMETER/ Bimetallic Thermometer/ Gas filled Thermometer/ Temperature Indicator/ Contact Temp. Indicator/Temp. gauge (capillary as well as non-capillary type/ bimetallic/ gas filled)/ with/without thermowell.	30	Pc		
H.9	Pressure Transmitter / Differential Pressure Transmitter/ Absolute Pr. Transmitter/vacuum Transmitters- Electronic transmitter / Temperature Transmitter with element/Vibration Transmitter/Speed Transmitter/Smart milli volt Transmitter	70	Pc		
H.13	Level switch (Float type/capacitance type/ conductivity type)/Differential Pressure Indicator cum Switch/Level Detector. Including erection of pressure vessel and control JB for CRH drain pot.	25	Pc		
H.20	Solenoid Valve(2 WAY/3 WAY/4 WAY)	25	Pc		
H.28	Proximity probe/piezo electric probe/LVDT /Phase Marker for VMS/TSI system including Driver, Ext cable,mounting brackets/pads and JB's.	32	Pc		
H.29	SOx/Nox/CO/CO2 Analyzer(LT/HT)	5	Pc		
H.30	Oxygen Analyzer(LT/HT) including probe & Auto calibration unit.	3	Pc		
H.31	Opacity Monitor / Smoke Density Analyzer / Dust Analyzer	4	Pc		
H.38	NH3 Analyzer	3	Pc		
O.4	Multi-sensor Detectors	81	Pc		
O.5	Air Sampling Detectors	7	Pc		

O.6	Infrared Detectors with Air Purge Unit	36	Pc		
O.7	Infrared Flame Detector	4	Pc		
O.8	Laying (without termination) of Optical LHS Cable	3900	Pc		
O.9	Termination of Optical LHS Cable (Cable termination accessories like cable lugs, glands & ferrules shall be supplied by BHEL, Any other items as required, are to be supplied by the successful bidder)	33	Pc		
O.10	Optical LHS Controller (4 channel)	33	Pc		
O.11	Manual Call Points	33	Pc		
O.12	Control Modules	162	Pc		
O.13	Hooter cum Strobe	29	Pc		
O.14	Response Indicators	20	Pc		
O.15	Exit Sign (Backlit)	23	Pc		
O.16	PC, Printer	2	Pc		
O.18.1	Laying and termination of Control Cable - 2C X 1.5 SQMM Fire Survival MICA Type	13000	Mtr		
O.18.2	Laying and termination of Power Cable - 3C X 2.5 SQMM Copper Conductor, Fire Survival MICA Type	3250	Mtr		
O.19	Fabrication and erection of Structural steel supports for pipes, equipment, cylinders etc.; platforms & misc structural works for completion of all systems of fire protection & detection system. (Free issue of Structural steel by BHEL)	3	Ton		
Estimated Value					

TOTAL AMOUNT (INR) in words:

NOTE TO BIDDERS: -

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2. Detail scope of work will be as per NIT
3. BOQ items are approximate and may vary. $\pm 30\%$ of the abovementioned quantity.
4. GST shall be paid extra upon receipt of valid GST invoice duly verified by our Site Finance. Payment of G S T can only be made after receipt of GST credit from GST council. Any ambiguity found in GST invoice shall cripple the payment of GST to the bidder and purchaser decision is final and bounding.

Name of the Bidder:

Signature of Bidder:

Designation:

Date:

VOLUME -1: TECHNICAL CONDITION OF CONTRACT (TCC)		
01. Types of Jobs		
1.1	Handling at Site stores, Storage Yard, Transportation to site of work, Erection, Calibration Checking, Testing & Commissioning of Control; Instrumentation System including SG& Auxiliaries, TG & Auxiliaries, BOP, Station C&I, Fire Detection System, SCR & FGD at 1×660 MW Unit-5, SGTPP (Phase-III).	
	a	Tray Work, Cable Laying & Termination, Junction Box Installation work: - Handling at site & store/storage yard, transportation to site of work, complete erection, testing, commissioning and handing over.
	b	Transportation of materials from BHEL store yard to site of work & vice versa will be in your scope. Quoted price will be inclusive of transportation.
	c	All consumables like welding electrodes, Tag Patti & Ferrules etc. required to complete the job are in your scope.
	d	Housekeeping of the area, empty cable drum and disposal of unwanted items to the BHEL identified places inside the Sagardighi Site.
	e	Following T&Ps need to be maintained on as required basis. 1. Hydra – As required 2. Trailer- As required 3. Ferrule Printer: As required 4. Arc/ TIG welding machine and sets: As required. 5. Digital Multimeter: As required 6. Tray Cutting Machine: As required 7. Stand Drill: As required Any other T&P required for smooth completion of the job shall be arranged by the contractor at their own cost.
	Progressive monthly payment can be claimed by the awarded party for the executed BOQ quantity for Jobs on certification by BHEL/ Engineer.	
02. Board scope of work:		
2.1 Tray Work, Cable Laying & Termination, Junction Box Installation work: - Handling at site & store/storage yard, transportation to site of work, complete erection, testing, commissioning and handing over.		
2.2 Erection part: The work shall conform to dimensions & tolerances given in various drawing & documents that will be provided during erection. If any portion of work is found to be not conforming to drawings or other stipulations, successful bidder shall inform immediately to BHEL engineer and redo the work, if suggested by BHEL. However, workmanship defects if any, will be done by you free of cost or BHEL will be carried out at your risk and cost.		
2.3 Successful bidder shall deploy fire extinguishers of required number in their office, work areas & surveillance will be done throughout the execution period.		
2.4 Successful bidder shall take the full responsibility of execution of the equipment/system by them under the overall supervision of BHEL. It shall be the responsibility of successful bidder to arrange all the testing/ measuring instruments with the calibration		

certificates and complete all the job activities for the particular equipment as per relevant standards, code of practice, manufacturer's instructions, applicable quality plans for installation, testing & commissioning and BHEL norms. All these will be witnessed by BHEL/ customer or both and reports signed jointly.
2.5 Successful bidder shall provide necessary supervision, skilled/ semi-skilled workmen, competent experienced erection, testing personnel to carry out the tests independently, erection tools & tackles, consumable, testing, measuring & commissioning instruments/ equipment of required range, administrative personnel, transport vehicles, security guards for timely execution of the contract.
2.6 If situation so demands that in order to achieve project schedule/ milestone, various activities are to be carried out at a time by successful bidder. And they shall provide necessary manpower, tools, tackles, equipment testing & measuring instruments for simultaneous working round the clock, at no extra cost to BHEL.
2.7 Once the material is issued to the successful bidder for handling/ erection from BHEL custody, or work order is issued for cable laying & termination the security of those materials will be completely in the scope of successful bidder till hand over of the job.
2.8 During execution of work if any job is found defective and is required to repair/ replace, successful bidder has to give complete support for repairing/ replacement of component. Complete support includes arrangement for dismantling of defective components, transportation of the materials from BHEL store to erection location without any extra cost.
2.9 Ward and watch of issued material will be the responsibility of successful bidder. Successful bidder has to follow BHEL's Field Quality Plan, for re-erection of the equipment to its commissioning. In each RA bill, successful bidder has to submit the reconciliation statement, measurement sheet, protocols, etc as supporting documents of the bill.
2.10 All the requirements of the IE rules are to be strictly fulfilled and to be completed with providing required consumables. All the test records & joint protocols are to be furnished to BHEL. With each RA bill, the related protocols are to be submitted by successful bidder along with reconciliation statement up to that period of billing.
2.11 Civil works including drilling, chipping, enlarging cut-outs, foundation pockets, cable cut-outs, grouting, etc, wherever required will be carried out by successful bidder at no extra cost. Successful bidder shall erect temporary scaffolding (scaffolding materials being arranged by successful bidder) for re-erection, if required and provide suitable platform at places (as suggested by BHEL) for the purpose of inspection/testing.
2.12 During testing, if any discrepancy is found, successful bidder has to report the same immediately to BHEL. BHEL will arrange for repair of the same at other place, but successful bidder has to give all sorts of support, e.g. loading of materials, taking out of the same through plant's materials gate with duly entry by security.
2.13 In each protocol, joint signature of BHEL, as well as customer, to be considered for billing purpose

2.14
Dismantling, removal of debris, cables, etc as per instruction of BHEL/ customer on completion of work. If successful bidder fails to do so, BHEL will get the job done through other agency and the cost along with applicable overhead will be recovered from successful bidder. Decision of BHEL in this regard shall be final & binding on successful bidder.
2.15
BHEL - Power Sector (ER) is ISO 9001-2008 certified company. Quality of work, to customer's satisfaction and as per system requirements are the essence of ISO:9001-2008 certification. The bidder in all respects will organise his work, systems, environment, process control documentation, T&Ps, measuring and monitoring devices (MMDs) etc as per instructions of BHEL engineer.
2.16
Successful bidder shall comply with HSE (Health, Safety & Environment) requirements of BHEL and follow all applicable Operational Control Procedures (OCPs) within quoted rate/ price.
2.17
Successful bidder shall arrange for safe keeping of materials and his T&Ps. Successful bidder should deploy portable fire extinguishers of required number in his office, stores and work areas.
03. SITE VISIT
The bidder must visit site, to acquaint themselves with the conditions prevailing at site and in & around the plant premises, together with all statutory, obligatory, mandatory requirements of various authorities before submission of bid.
04. DEVIATION/CLARIFICATION
Normally no deviation with respect to tender is acceptable to BHEL. However, in case of unavoidable circumstances, the bidder may submit their query for seeking clarifications of BHEL as per modality stipulated in NIT or may submit the same along with offer as per prescribed schedule/ format without any ambiguity. Any assumptions, presumptions, deviations etc. indicated or implied anywhere by the bidder except those indicated in the deviation schedule/ format will not be recognized and will not form a part of consideration / offer. In the absence of such filled-up schedule/ format it will be understood and agreed that the bidder's offer is based on strict conformance to the specification and no negotiation would be allowed in this regard. BHEL reserve the right not to recognize any / all deviations submitted after opening of the bid.
05. DEWATERING
Successful bidder shall ensure at all times that their work area & approach/ access roads are free from accumulation of water, so that the materials are safe and the erection/ progress schedule are not affected. No separate claim in this regard shall be admitted by BHEL. No separate payments for dewatering of subsoil, surface water or catchments water, if required, at any time during execution of the work including monsoon period shall be considered by BHEL. All dewatering pumps are to be provided by successful bidder, if required.
06. Tools and Plants (T & Ps)
The awarded party need to arrange and employ necessary T&Ps.
07. Electrical Power for the Job
BHEL will provide construction power free of charges at 415 V level at one/ two strategic point(s) within plant premises. Successful bidder shall make their own distribution arrangement to draw electricity.
08. Tray Work, Cable Laying & Termination, Junction Box Installation work:
- Laying, dressing of cable-on-cable tray glanding & termination as required. Cable laying, dressing & cable tagging will be as per BHEL Engineer. - Cable laying job includes supply & installation of required clamps - Cable termination shall include drilling/making of holes in gland plates, fixing of glands, ferrules and lugs, fixing of cable tags and connection to the equipment without implication of extra cost to BHEL. Material required for making ferrule and cable tag are to be arranged by the successful bidder without any extra cost to BHEL.

- d. All testing & inspection has to be arranged by successful bidder & joint protocol has to be prepared between BHEL & end customer.
- e. All required testing like continuity check, megger test if required has to arranged by the successful bidder & it will in cabling erection job scope. No, extra payment will be made in this regard.
- f. Fabrication, erection, and painting of GI perforated or ladder-type cable trays (with or without covers), using all required fixing accessories as per drawings. Includes site modifications for bends, turns, or custom profiles to suit the layout.
- g. Installation of various types of junction boxes (**Electrical/FRP, MS/Fiber/GI, Cold Junction Compensation Boxes, MTM, etc.**), with or without canopy as required.
- h. Fabrication, erection, and painting of structural steel (**angles, channels, flats, plates, etc.**) with steel free supplied by BHEL.
- i. All consumables like welding electrodes, Tag Patti & Ferrules & Cable Lugs up to 2.5 sq.mm etc. has to arranged by the successful bidder. No, extra payment will be made in this regard.

09. PROTOCOL:

In each erection, testing protocol, joint signatures of successful bidder, BHEL as well as Customer are required.

10. Safety of the Work-area

For the Safety of the Work-area and the Job itself, the awarded L1(lowest bidder) Vendor need to adopt following means of procedures as follows: -

- a. The successful bidder has to take workmen insurance policy for their employees/workmen for working in Sagardighi Site.
- b. All these Employees of the Vendor with valid Insurance, need to have Gate Pass too, for safe entry and exit in the premises of Sagardighi Site.
- c. All these Employees of the Vendor should have necessary Safety PPEs and required Height/Hot-Work Passes, as needed from time to time.
- d. The awarded L1 Vendor need to obtain Safety Work Permit (applied for a pre-determined day with description of the Job), every day before the commencement of the Job with the number of Employees working on that particular day, as mentioned thereof.
- e. After the end of the Job every day, remaining tools and tackles and the Materials & Consumables need to be secured safely at Vendor's designated Place.

11. Security

The awarded party will take necessary precautions/ due care to protect the material at Project site, while in his custody from any damage/ loss till the same is handed Over to BHEL/ customer at Project site. BHEL will reserve the right to Recover the loss from the contractor as detailed below in case the damage/loss is due to negligence/ carelessness on the part of the contractor. In case of theft of material under contractor's custody, the same shall be reported to police by the contractor immediately and copy of FIR shall be submitted to BHEL for taking up further at BHEL. However, this will not relieve the contractor of his contractual obligation for the materials in his custody.

For the Security of the Materials and the Manpower, during the ongoing job at the said Area, contractor will deploy own Security Personnel round the clock (24 hours) for the Security and Surveillance purpose.

12. Contract period of the Job

The postulated duration of the Job will be 180 days from the start of work.

13. EARNEST MONEY DEPOSIT (EMD): N/A**14. SECURITY DEPOSIT(SD): nil****15. Bidder shall submit copy of GST and Trade License along with Tender documents.****16. Payment Terms with the Certification of Work done**

- a. Progressive monthly payment can be claimed by the awarded party for the executed BOQ quantity Jobs on certification by BHEL- Engineer. 5% of the amount of the certified bill will be kept as retention amount on progressive billing which will be released on successful completion of the awarded job.
- b. **Payment Break up for cabling:** 60 % on laying, 20% on loop checking & termination 20% on Dressing & Clamping
- c. **Payment Terms for Tray & JB erection & Structural Steel Fabrication:** 60 % on Erection/Fabrication with support, 20 % on Fixing loose items & 20 % completion of all jobs including painting.
- d. **Payment Break up for Instruments (Per Pc):** 60 % on Erection/Fabrication with support, 20 % on commissioning & 20 % completion of all jobs including painting.
- e. On basis of the actual work done, as certified by the BHEL Engineer, the awarded L1 Vendor need to raise the Invoice along with copies of GST and Trade License along with the certified copy of work-measurement.
- f. 100% net payment shall be released, through NEFT/RTGS/Cheque to the Bank account, as provided by the awarded L1 Vendor within 30 days from the date of submission of Bidder's Invoice to BHEL Office, Sagardighi Site.
- g. Payment shall be made in Indian Rupee.
- h. The accepted rate of individual items shall remain Firm throughout the contract period of this Tender including extension period, if any without any escalation.
- i. Price Variation Clause (PVC) / Over Run Compensation (ORC) / Rate Revision are not applicable in this Tender.

17. Taxes and Duties:

- a) The Bidder shall submit copy of GST registration Certificate, Trade License to the BHEL site office immediately after receiving the Order but before raising the first Tax Invoice against this tender.
- b) Adequate documents for charging/ claiming GST from BHEL shall be made available to the Bidder
- c) The bidder shall raise Tax Invoice at BHEL site office.
- d) TDS under Income Tax shall be deducted as per prevailing IT rules from bills.
- d) Bidder shall note that the Tax Invoice complying with GST rule must contain the 'Bill to' and 'Ship to' details as below:

BHEL GSTIN: 19AAACB4146P1ZC

Bharat Heavy Electricals Limited

Power Sector Eastern Region,

1x660 MW SgTPP, Sagardighi, Murshidabad, West Bengal, PIN: 742237.

Thanking you,

For and on behalf of Bharat Heavy Electricals Limited