



Bharat Heavy Electricals Limited  
Electronics Division, Mysore Road, Bangalore – 560 026.



**Bharat Heavy Electrical Ltd  
Electronics Division  
Mysore Road, Bangalore-560026**

## **Tender Document**

**Name of the work:**

**STAINLESS STEEL PIPING FOR NITROGEN  
LINE IN SMT AREA**

***OPENING DATE: 07.05.2021***

This Tender document contains **21** pages



**Phone:26998416/26998009**

**NOTICE INVITING TENDER**

01. Tender Reference : FS/PMG/N2/SMT/PIPING  
Date: 16.04.2021

02. Name of the work :SS PIPING FOR NITROGEN LINE IN SMT AREA

03. Period of contract : 1 Month

04. Estimated Cost : Rs. 1.81 Lakhs (excluding GST)

05. Earnest Money Deposit : Rs. 4,300/-

06. Last Date & Time for the Receipt of Completed Tender. : **Before 1.00 PM on 07.05.2021**

07. Date & Time for Tender Opening (Technical Bid) : **At 1.30 PM on 07.05.2021**

08. Place of submission of completed Tender : Tender document shall be dropped at **FS&T tender box** kept at Reception BHEL, Electronics Division,Mysore Road,Bangalore-26

This tender document contains **21** pages including the following.

**I. Technical Bid : Pages from 1- 20 (part-I)**

- a) TECHNICAL-CUM-COMMERCIAL BID
- b) Instructions to tenderers
- c) Scope of Work

**II. Price Bid : Page No - 21 (part-II)**

**Note:**

1. The tenderer shall read the tender documents carefully and fill all the columns neatly. Incomplete tenders will be rejected.
2. The tenderer shall return the duly filled in tender document after affixing Signature on all pages.
3. **Earnest Money Deposit of Rs. 4,300/- in favour of BHEL-EDN as per Mode provided in Sl. No. C.1, Part – I (Techno-Commercial Bid)**

**Tenders will be liable for rejection if the above is not submitted.**

- 4) Part-I, Part-II & EMD sealed covers to be put in outer Envelope and super scribbling the Name of work and Name & Address of the Tenderer.



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## **PART-1**

### **TECHNICAL-CUM-COMMERCIAL BID**

(To be furnished by the Bidder)

**Name of work:** SS Piping for Nitrogen Line in SMT area.

**Tender Ref : FS/PMG/N2/SMT/PIPING dtd. 16.04.2021**

#### **A) : Information Part :**

<b>S.N</b>	<b>Particulars</b>	<b>To be filled by Bidder</b>
1.0	Name of the Contractor	
2.0	Address (Office)	
3.0	Address (Residence)	
4.0	Telephone Number	
	Office	
	Residence	
	Mobile No.	
5.0	Email id.	



## B) : Essential Criteria for Techno-Commercial Acceptance of Bid

S.N	Particulars	To be filled by Bidder
1.0	Experience Certificate for successfully completed similar works during immediate last 7 years as mentioned below: <i>(Similar work means Piping works for compressed air / Nitrogen/ gas lines)</i>  One work not less than 80% of estimate or Two works of not less than 50% of estimate or Three works of not less than 40% of estimate  (copy of performance report from the organization where the work is executed is to be enclosed. Submission of Work Order copy is not adequate)	
2.0	Average Turn Over of the last three years (not less than 30% of estimate)	
2.1	Turn over - Previous financial year (2019-20)	Rs.
2.2	Turn over - 1 year before previous financial year (2018-19)	Rs.
2.3	Turn over- 2 years before previous financial year (2017-18)	Rs.
3.0	Whether Registered with ESI / PF Authority	Yes/ No
3.1	If Yes, indicate PF Registration No. (Copy of last month contribution paid receipt to be enclosed)	Enclosed / Not enclosed
3.2	If Yes, indicate ESI Registration No. (Copy of last month contribution paid receipt to be enclosed)	Enclosed / Not enclosed
3.3	If No, Is the tenderer willing to pay the ESI and PF contribution for the subject work under BHEL Sub code, subject to BHEL Terms and conditions.	Yes/No
4.0	Security Deposit Clause as per NIT	Accepted/ Not Accepted

Note: If any of the above mentioned criteria is not met the bid will be rejected



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**C) : Other Conditions:**

1	Form of EMD furnished <ul style="list-style-type: none"><li>• Bankers Cheque /DD / Pay Order / Cash(as permissible under the Income Tax Act)</li><li>• EFT details of fund transfer credited in BHEL A/c</li><li>• SBI Collect</li></ul> Document No. to be mentioned	
2	Electronic Funds Transfer(EFT) form (Ref Annexure II in the Tender Document) Duly Filled and certified through bank may be enclosed	Enclosed/Not Enclosed
3	Scope of work & General Conditions of Contract & NIT	Acceptable/ Not Acceptable
4	Contract period mentioned in NIT	Acceptable/ Not Acceptable
5	Payment Terms defined in NIT	Acceptable/ Not Acceptable
6	PAN No. of Tenderer (Copy of the same to be enclosed)	Enclosed/Not enclosed
7	GSTIN (Copy of the same to be enclosed)	Enclosed/Not enclosed
7.1	If not registered under GST, undertaking to be submitted that contractor will register and furnish copy of certificate, before submitting the first bill	Acceptable/ Not Acceptable
8	Taxes quoted in price Bid. Tick as applicable with %	IGST Or SGST + CGST Or UTGST + CGST
9	SAC /HSN Code for the service tendered	



## **INSTRUCTIONS TO TENDERERS**

**Name of work:** SS Piping for Nitrogen Line in SMT area.

1. Sealed Tenders for the above noted works are hereby invited from Contractors experienced in works of similar kind and magnitude.
2. Tenders should be addressed to AGM (FS & I), Electronics Division, Bharat Heavy Electricals Limited, Mysore Road, Bangalore – 560 026. The full name and address of the tenderer, name of the work and the date of opening should be indicated on the cover.
- 2.1 The local address of the Contractor, the name of the person to whom all the correspondence are to be addressed should be indicated with telephone number ( both office and residence ), FAX /e-mail address, Mobile phone No. etc..
3. All entries in the tender documents should be in the same ink. Erasures and over writing are not permitted. The tenderer concerned with proper indication of the name, designation and address of the person signing should duly sign all cancellations and insertions.
4. **The bidders are required to submit / drop duly filled in tender document within the specified date and time in the FS&T tender box (Box No.7) kept in Reception Area of BHEL – Electronics Division, Mysore road, Bangalore – 560 026.** Tenders received after the due date & time of opening of tenders will not be accepted. All the tenderers may witness the opening of the bids with due authorization of the person witnessing from the authorized signatory of the tenderer.
5. **The tender documents are available in the BHEL web site: [www.bhel.com](http://www.bhel.com) / Central Public Procurement Portal: [eprocure.gov.in](http://eprocure.gov.in) under heading Tender Notifications. Corrigendum if any including extension of due date, clarification etc., will be published in BHEL web site only.**
6. Tenderers shall fill in all the required particulars in the blank spaces provided for this purpose in the tender documents and also sign each and every page of the tender document including the drawings (wherever applicable) attached there to before submitting tender.
7. Unit rates should be quoted in figures as well as in words in Indian Currency only i.e. Rupees and Paise with reference to each item and for all the items shown in the attached schedule.
8. In case the rate quoted in figures differ from those quoted in words, then
  - (A) If, in the price structure quoted for the required goods/services/works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.
  - (B) If there is an error in a total corresponding to the additional or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and



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(C) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (a) and (b) above.

(D) If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date up to which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.

**9. Goods and Services Tax (GST):**

- 9.1 BHEL EDN GSTIN number is 29AAACB4146P1ZB. All invoices to contain BHEL GSTIN No.
- 9.2 The Bidder shall mention his GSTIN number in all quotations and Invoices submitted.
- 9.3 The Bidder shall also mention HSN (Harmonised System of Nomenclature) / SAC (Services Accounting Code) mandatorily in all quotations and invoices submitted.
- 9.4 Invoice submitted should be in the format as specified under GST Laws viz. all details as mentioned in Invoice Rules like GSTN registration number, invoice number, quantity, rate, value, taxes with nomenclature – CGST, SGST, UGST,IGST mentioned separately, HSN Code / SAC Code etc. Invoice should be submitted in original for buyer plus duplicate copy.
- 9.5 Payment of GST to Bidder will be made only if it is matching with data uploaded by the Bidder.
- 9.6 Bidders to give undertaking that GST as mentioned in the Invoice has been paid either through cash or admissible input credit and also filed the returns at the time of submission of invoice.
- 9.7 For invoices paid on Reverse charge basis – “Tax payable on reverse charge basis” to be mentioned on the invoice.
- 9.8 In case GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount will be recoverable from vendor along with interest levied/leviable on BHEL.
- 9.9 In case vendor delays declaring such invoice in his return and GST credit availed by BHEL is denied or reversed subsequently as per GST law, GST amount paid by BHEL towards such ITC reversal as per GST law will be recoverable from vendor/contractor along with interest levied/leviable on BHEL.
- 9.10 The changes in GST rates due to statutory amendment of GST ACT during the course of the contract will be paid as applicable

10 (a) The rates quoted in the tender shall remain valid for a period of 'THREE MONTHS' from the date of opening of tender.

(b) Tenderer shall not increase their quoted rates, once the tenderer has submitted his quotation and during execution of the contract in case his tender is accepted.



- 11 Quantities shown in the attached schedule are only approximate and are liable to variation without entitling the Contractor to any compensation, provided the total value of the contract does not vary by more than 20 % (twenty percent ).
- 12 Before tendering, the tenderers are advised to inspect the site of work and its environments and be well acquainted with the actual working and other prevailing conditions, position of materials and labour. They should be well versed with BHEL General Conditions of Contract, Instructions to tenderers, drawing wherever applicable and specifications and all other documents which form part of the agreement to be entered into subsequent to award of work. The tenderers shall specially note that it is the tenderer's responsibility to provide any item which is not specially mentioned in the specification or drawing, but which is necessary to complete the work.
- 13 Details and quantities of each item of work shown in the "Bill of Quantities" attached here to be only approximate. They are given as a guide for the purpose of tendering only and are liable to variation and alteration at the discretion of the competent authority. The work under each item as executed shall be measured and priced at the corresponding rates to be quoted by the contractor in the Bill of Quantities attached here to.
- 14 Should a tenderer find discrepancies or omissions in the drawings wherever applicable / Specifications / Scope of work / Terms & Conditions attached to the tender documents or should be in doubt as to their meaning, he should at once address to the authority inviting the tender for clarifications.

Every endeavor is made to avoid any error which can materially affect the basis of the tender but the successful tenderer shall take upon himself to provide for the risk of any error which may be subsequently discovered and shall make no subsequent claim on account thereof.

- 15 In the event of tender being submitted by a firm, the tender must be signed separately and legibly by each partner or member of the firm or in their absence, by the person holding the power of Attorney on behalf of the firm concerned. In the latter case, a copy of the power of attorney duly attested by a Gazetted officer must accompany the tender.
- 16 In case, the date of tender opening falls on Holiday, the tender will be opened on the next working day.
- 17 The EMD may be submitted in following forms:

- a) Cash deposit as permissible under the extant of Income Tax Act (before tender opening only)
- b) Electronics fund transfer credited in BHEL account. (before tender opening only)  
The link to make EMD payment is given below.

<https://www.onlinesbi.com/prelogging/icollectchome.htm?corpID=5083>

Onlinesbi.com-> State Bank Collect -> Karnataka -> Industry -> Bharat Heavy Electricals Ltd. -> Others



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Further to select payment nature and proceed as per the screen message.

c) Banker's Cheque/ Pay Order/ Demand Draft In favour of BHEL (along with offer.)

18 Unless the Contractor whose tender is accepted signs the contract agreement within fifteen days (15 days) of the date of the order directing him to do so, the amount of Earnest Money already deposited by him may be forfeited and acceptance of his tender withdrawn.

19 If, after opening of tenders, a tenderer revokes his tender or increases his earlier quoted rates or after acceptance of his tender does not commence the work in accordance with the instructions of Engineer-in-charge, the Earnest Money Deposited by him will be forfeited and acceptance of his tender withdrawn. If only a part of the work included in the tender had been awarded to the tenderer, the amount of Earnest Money to be forfeited will be based on the value of the contract so awarded.

20 BHARAT HEAVY ELECTRICALS LIMITED reserves the right to reject any or all the tenders received or accept any tender or part thereof without assigning any reason thereof. In the case of acceptance of a part of tender, the time for completion may also be reduced to the extent considered appropriate by the accepting authority.

21 Conditional and unsigned tenders, tenders containing absurd rates and amounts, tenders which are incomplete or otherwise considered defective, tenders which are not in accordance with the tender conditions laid down by the Accepting Officer and tenders not submitted in the prescribed forms are liable to be rejected.

22 The tenders should be accompanied by a list of contracts already held by the Contractor at the time of submitting the tender and giving the following particulars:

(a) Name of work, value and address.  
(b) The balance work remaining to be done on the same.

23. Tenders submitted by post should be sent by "Registered Post with Acknowledgement due". These should be posted with due consideration for any delay in postal delivery. Tenders received after the due date of opening of tenders are liable to be rejected.

24. The Contractor's responsibility under this contract shall commence from the date of receipt of the order or acceptance of his tender.

25. If a tenderer expires after the submission of his tender or after the acceptance of his tender, BHEL may, at their discretion, cancel such tender. If a partner of the firm expires after the submission of the Tender, after the acceptance of the Tender, BHEL may cancel such Tender at the discretion unless the firm retains its character (s).

26. BHARAT HEAVY ELECTRICALS LIMITED will not be bound by any power of Attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of the contract. They may however, recognise such



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power of Attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contractor concerned.

27. If the tenderer deliberately gives wrong information in his tender, BHEL reserves the right to reject such tender at any stage. Further the tenderer will be liable for any damage caused.
28. Words imparting the singular number shall be deemed to include the plural number and vice-versa where the context so requires.
29. The expenses for completing the stamping the agreement shall be paid by the contractor.
30. The General and Special Conditions of Contract are complementary to each other and where they are in conflict, the special condition shall prevail.
31. Any covering letter and comments of the Contractor should be submitted in duplicate along with the offer.
32. The Contractor shall provide all the materials needed for trial run, testing including chemicals, consumables etc which are not covered in the Price Bid.. In quoting their rates, the Contractors are advised to take into account the cost of the above materials.
33. Should a tenderer or a contractor on the list of approved contractors have a relative or in the case of firm or Company of Contractors any of its share holder's relative is employed in a Gazetted Capacity in the Electronics Division of Bharat Heavy Electricals Limited, Bangalore – 26, the authority inviting tenders shall be informed of this fact at the time of submission of the tender, failing which tender may be disqualified or if such a fact subsequently come to light, the relevant provisions of the General Conditions of Contract will apply.
34. The BHEL General Conditions of Contract shall also apply to this work except to the extent modified in these conditions. The contractor shall scrutinize the GCC available in BHEL EDN and acquaint himself with provisions thereof to the satisfaction.
35. **'Statutory Deduction such as TDS towards Income Tax and GST TDS** will be made as per Rules from the bills payable to contractor
36. The Contractor shall comply with the provision of Employees Provident Fund and Miscellaneous Provisions Act 1952 and rules, regulations and other orders issued there under. He, as an employer, shall be liable to pay employer's contribution/deductions towards PF under the PF Act in respect of all labour employed by him, for the execution of the contract in accordance with the provisions of the Employees Provident Funds and Miscellaneous Provisions Act, 1952 as amended from time to time. For this purpose he shall indicate the code number obtained from the Regional Provident Fund Commissioner or he should obtain a code number if he has not and produce the Photostat copy of the challan / receipt of monthly remittance of the contribution made by him to the PF Commissioner.



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Final payments due to him will be released only on production of a “No due certificate” from the Regional Provident Fund Commissioner wherever applicable. He shall also furnish such returns as are due, under the Act, to be sent to the appropriate authorities through the Principal Employer”.

37. The Contractor should get himself registered with the E.S.I. Authorities as an independent Employer, obtain a separate code number and remit the dues in respect of the labour employed by him for the work and produce the Challans / Receipts of remittance of the ESI contributions due under the E.S.I. Act to the Company authorities. He shall also furnish such returns, as are due, under the Act, to be sent to the appropriate authorities through the Principal Employer.
38. If any action is brought in by P.F. Commissioner/ESI authorities on BHEL for the work done by the Contractor for his labourers regarding PF/ESI amount due, short remittances, non remittances etc., the Contractor shall defend the case on behalf of BHEL and/or reimburse BHEL the expenses so incurred.
39. If applicable, the Contractor shall apply and obtain license under Contract labour ( R&A ) Act 1970 and comply with the relevant provisions of this Act in respect of the labour employed by him for executing this contract. The Contractor shall furnish necessary returns to the authority through the Principal Employer.
40. If applicable, the Contractor shall insure all his labourers and materials. Any claim by his employees for the damages shall be settled by the contractor even action is against BHEL or to reimburse the legal expenses incurred by BHEL
41. Any action brought in by anybody on BHEL regarding patent, right etc., used by contractor in execution of work shall be defended by the contractor and /or reimburse to BHEL the cost of the same.
42. Contractor shall produce necessary records, documents, explanation whenever he is called upon to do, by any Government. Agencies like ESI, PF, VIGILANCE etc.,

**43. TERMS OF PAYMENT:**

Payment will be made on after satisfactory Completion of work and submission of required documents.

**44. SECURITY DEPOSIT**

The successful tenderer shall deposit the Security deposit before start of the work. The rate of Security deposit will be 5% of contract Value

45. Security deposit may be furnished in any one of the following forms
  - I. Cash (as permissible under the Income Tax Act)
  - II. Local Cheques of scheduled Banks (subject to realization)/Pay Order/ Demand Draft /Electronic Fund Transfer in favour of BHEL



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- III. Securities available from Post Offices such as National Savings Certificates, Kisan Vikas Patras etc. (Certificates should be held in the name of Contractor furnishing the security and duly pledged in favour of BHEL and discharged on the back)
- IV. Bank Guarantee from scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL.
- V. Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The FDR should be in the name of the contractor, A/C. BHEL, duly discharged on the back.
- VI. Security Deposit can also be recovered at the rate of 10% from the running bills. However in such cases at least 50% of Security Deposit shall be deposited before start of the work and the balance 50% may be recovered from the running bills.
- VII. EMD of the successful tenderer shall be converted and adjusted against the security deposit.
- VIII. The Security deposit shall not carry any interest.

**NOTE:** Acceptance of Security Deposit against Sl. No. (iii) and (v) above will subject to hypothecation or endorsement on the document in favour of BHEL-EDN. However, BHEL will not be liable or responsible in any matter for the collection of interest or renewal of the documents or in any other matter connected therewith.

**46. Fraud Prevention Policy:**

“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.”



**Scope of work:**

**1. Scope of work:**

The work is for Supply, fabrication and erection of **stainless steel 316/304, seamless, schedule 40 piping** along with accessories and instruments in the SMT area of BHEL EDN. The line is to be tapped from the existing Nitrogen pipe header and extended to the Reflow Oven machine in SMT area.

- 1 All jointing in the pipe system shall be generally by **Tungsten Inert gas (TIG) welding / inert gas welding / AC SS ARC welding** unless otherwise mentioned by Executive Incharge.
- 2 All steel supports shall be thoroughly cleaned and given one primary coat of Synthetic paint during installation. The piping shall be painted (two coats) for Nitrogen Line as per IS standards.
- 3 All piping work shall be carried causing minimum disturbance to the existing services, machinery and structure.
- 4 The clamps, brackets, clamp saddles and hangers provided for pipe supports should be adequate.
- 5 The pressure gauges along with control valve and safety valve in the pipe line shall be provided as per instructions of Engineer Incharge.
- 6 All pipes shall be kept plugged or kept closed at all times before installation at site, to prevent ingress of moisture and foreign matters. Each system of piping shall be flushed thoroughly after completion for as long as is required to thoroughly clean the system.
- 7 All piping shall be tested to hydrostatic test pressure of not less than 20 kg per sq. cm for a period of not less than 24 hours. All leaks and defects in joints revealed during testing shall be rectified, retested and gotten approved. All instruments, tools required for pressure testing to be brought by vendor.
- 8 Piping shall be measured in units of length along the centre line of installed pipes including all pipe fittings, flanges (with gaskets, nuts, and bolts for jointing), unions, bends, elbows, tees, concentric and / or eccentric reducers, inspection pieces, expansion loops etc. The above accessories shall be measured as part of piping length along the centre line of installed pipes, and no special multiples of pipe lengths for accessories shall be permitted. The contractor should consider as above while quoting.
- 9 BHEL shall be notified well in advance by the contractor of his intention to test piping and all testing shall be witnessed by the authorised representatives. Further, test certificates duly signed by the contractor and BHEL representatives shall be submitted after completion of the tests.
11. Maintenance period for faulty material and workmanship for a period of 6 months from the date of erection. All repairs arising due to above have to be carried free of cost.



**LIST OF APPROVED MAKES FOR PIPING**

Only approved makes for different materials / equipments as given below shall be used for this piping work. No other make shall be accepted. Any make listed below but not conforming to Technical Specs/ Standards prescribed in the Tender shall not be accepted.

<b>Details of Materials / Equipment</b>	<b>Make (Manufacturer's Name)</b>
<b>Make</b>	
SS Pipes Seamless	: Nippon, Sumitomo, Remi, Ratnamani, Jindal
Safety Valve	: Herose
Pressure Gauge/Temperature Gauge	: H-Guru, FieBig, Waree
SS Ball Valve	: BDK, Legris, SSP, Audco ( L&T)

**NOTE:**

Contractors intending to supply other makes of materials than those listed above , shall indicate the makes considered in their offers highlighting the salient features and advantages of the same along with the catalogues. The right of accepting such alternate makes rests with the customers .



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**GENERAL CONDITIONS OF CONTRACT**

It is hereby agreed by me / us that the BHEL General Conditions of Contract including subsequent amendments / additions / deletions to clauses if any, and conditions pertaining the settlement of disputes by Arbitration form an integral part of the tender documents and that the tender submitted by me/ us is subject to the aforesaid BHEL General Conditions of Contract 2019 which has been read and accepted by me/us.



## **SAFETY CODE**

### **RESPONSIBILITIES OF THE CONTRACTOR IN RESPECT OF SAFETY OF MEN, EQUIPMENT, MATERIAL AND ENVIRONMENT**

1. Before commencing the work, contractor submit a “SAFETY PLAN” to the authorised BHEL Official. The ‘SAFETY PLAN’ shall indicate in detail the measure that would be taken by the contractor to ensure safety of men, equipment, material and environment during execution of the work. The plan shall take care to satisfy all requirements specified hereunder. The contractor shall submit Safety Plan along with his offer. During negotiations before placing of work order and during execution of the contract BHEL shall have right to review and suggest modification in the Safety Plan. Contractor shall abide by BHEL decision in this respect.
2. The contractor shall take all necessary safety precautions and arrange for appropriate appliances as per direction of BHEL or its authorised officials to prevent loss of human lives, injuries to personnel engaged, and damage to property and environment.
3. The contractor shall provide to its work force and ensure the use of the following personal protective equipment as found necessary and as directed by the authorised BHEL officials:
  - (i) Safety Helmets conforming to IS-2925: 1984.
  - (ii) Safety Belts conforming to IS-3521: 1983.
  - (iii) Safety Shoes conforming to IS-1989: 1978
  - (iv) Eye and Face protection devices conforming to IS – 8520: 1977 and IS-8940: 1978
  - (v) Hand and body protection devices conforming to:  
IS-2573: 1975  
IS-6994: 1973  
IS-8807: 1978  
IS-8519: 1977

All tools, tackles, lifting appliances, material handling equipment scaffolds, cradles, safety nets, ladders, equipment's etc. used by the contractor shall be of safe design and construction. These shall be tested and certificate of fitness obtained before putting them to use and from time to time as instructed by authorised BHEL official who shall have the right to ban the use of any item.

All electrical equipment's, connections and wiring for constructions power, its distribution and use shall conform to the requirement of the Indian Electricity Act and Rules. Only electricians licensed by the appropriate statutory authority shall be employed by the contractor to carry out all types of electrical works. All electrical appliances including portable electric tools used by the contractor shall have safe plugging system to source of power and be appropriately earthed. The contractor shall not use any hand lamp energized by electric power with supply voltage of more than 24 volts. For work in confined space lighting shall be arranged with power sources of not more than 24 volts.



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The Contractor shall adopt all fire safety measures as laid down in the “Code for fire Safety at Construction Sites” issued by the Safety Department of the Construction Management (HQ) of BHEL and as per directions of the authorised BHEL official. A copy of the above referred “Code of Fire Safety at the Construction Sites” shall be made available by BHEL to the contractor for reference, on demand by the contractor, during tendering stage itself.

Where it becomes necessary to provide and/or store petroleum Products, explosives, chemicals and liquid or gaseous fuel or any other substance that may cause fire or explosion, the contractor shall be responsible for carrying out such provisions and/or storage in accordance with the rules and regulations laid down in the relevant government acts, such as Petroleum Act, Explosives Act, Petroleum and Carbides of Calcium Manual of the Chief Controller of Explosives, Govt. of India. etc., prior approval to the authorised BHEL official at the site shall also be taken by the contractor in all such matters.

The contractor shall arrange at his cost (wherever not specified) appropriate illumination at all work spots for safe working when natural daylight may not be adequate for clear visibility.

The contractor shall be held responsible for any violation of statutory regulations local, state or central and BHEL instructions, that may endanger safety of men, equipment, material and environment in his scope of work or another contractor's or agencies. Cost of damages if any, to life and property arising out of such violation of statutory regulations and BHEL instructions shall be borne by the contractor.

In case of a fatal or disabling injury accident to any person at construction sites due to the lapses by the contractor, the victim and/or his/her dependents shall be compensated by the contractor as per statutory requirements. However, if considered necessary, BHEL shall have the right to impose appropriate financial penalty on the contractor and recover the same from payments due to the contractor for suitably compensating the victim and/or his/her dependents. Before imposing any such penalty, appropriate enquiry shall be held by BHEL giving opportunity to the contractor to present his case.

In case of any damage to property by the contractor, BHEL shall have the right to recover cost of such damages from payments from payments due to the contractor after holding an appropriate enquiry.

In case of any delay in the completion of a job due to mishaps attributable to lapses by the contractor, BHEL shall have to recover cost of such delay from payments due to the contractor, after notifying suitably and giving him opportunity to present his case.

If the contractor fails to improve the standards of safety in its operation to the satisfaction of BHEL after being given a reasonable opportunity to do so; and/or if the contractor fails to take appropriate safety precautions or to provide necessary safety devices and equipment or to carry out instructions regarding safety issued by the authorised BHEL official, BHEL shall have the right to take corrective steps at the risk and cost of the contractor after giving a notice of not less than seven days indicating the steps that would be taken by BHEL.

The contractor shall submit report of all accidents, fires and property damage, dangerous occurrence to the authorised BHEL official immediately after such occurrence, but in any



case not later than twelve hours of the occurrence. Such reports shall be furnished in the manner prescribed by BHEL. In addition, the contractor to the authorised BHEL official shall also submit periodic reports on safety from time to time as prescribed.

Before commencing the work, the contractor shall appoint/nominate a responsible officer to supervise implementation of all safety measures and liaison with his counterpart of BHEL.

If safety record of the contractor in execution of the awarded job is to the satisfaction of Safety Department of BHEL, issue of an appropriate certificate to recognize the safety performance of the contractor may be considered by BHEL after completion the job.

### **HEALTH, SAFETY & ENVIRONMENTAL POLICY**

The Management is committed to be an environmentally sound company in its activities, products, services and to provide safe and healthy working environment covering its employees, products & services as an integral part of business performance through:

- Compliance with applicable Legislation and Regulation
- Setting objectives and targets to eliminate/control/minimise environmental pollution, risks due to Occupational Health and Safety Hazards.
- Promotion of activities for conservation of resources by environmental management with focus on oil, electrical energy and chemicals.
- Enhancement of Environmental, Safety and Occupational Health awareness amongst employees, customers, suppliers, contractors by proactive communication.
- Regular evaluation and pro-active measures for prevention & control of environmental pollution/accidents/occupational diseases.
- Appropriate training of employees and interested parties on Health, Safety & Environmental (HSE) aspects.
- Formulation and maintenance of HSE Management Programs for continual improvement.
- Periodic review & audit of HSE Management System to ensure its continuing suitability, adequacy and effectiveness
- Communication of HSE Policy to all employees and interested parties.
- Co-operation with concerned agencies/regulatory bodies engaged in HSE activities.



**ELECTRONIC FUNDS TRANSFER (EFT) OR PAYLINK DIRECT CREDIT FORM**

Please Fill Up the form in CAPITAL LETTERS only:

TYPE OF REQUEST (Tick one): CREATE \_\_\_\_\_ CHANGE: \_\_\_\_\_

BHEL Vendor/Supplier Code:

Company Name:

Address:

Permanent account Number (PAN):


City: \_\_\_\_\_

PINCODE

--

STATE

--

Contact Person(s)

--

Telephone No:

--

Fax No:

--

E-Mail-Id:

--

1. Bank Name:

--

2. Bank Address:

--

3. Bank Telephone No:

--

4. Bank Account no:

--

5. Account Type: Saving/Cash Credit

--

6. 9 Digit Code Number of Bank and branch  
Appearing on MICR cheque issued by  
Bank

--

7. Bank Swift Code (applicable for EFT only)

--

8. Bank IFSC Code(applicable for RTGS)

--

9. Bank IFSC Code (applicable for NEFT)

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**Bharat Heavy Electricals Limited  
Electronics Division, Mysore Road, Bangalore – 560 026.**

I hereby certify that the particulars given above are true, correct and complete and that I, as a representative for the above named Company, hereby authorize BHEL, EDN, Bangalore to electronically deposit payments to the designated bank account. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold BHEL/Transferring Bank responsible. This authority remains in full force until BHEL - EDN Bangalore receives written notification requesting a change or cancellation.

I have read the contents of the covering letter and agree to discharge the responsibility expected of me as a participant under ECS/EFT.

Date:

Authorized Signatory:

Designation:

Code

Company seal

Telephone No. with STD

**BANK CERTIFICATE**

We certify that \_\_\_\_\_ has an Account No\_\_\_\_\_ with us and we confirm that the bank details given above are correct as per our records.

Date:

Place:

(.....)

Signature

---

Please return completed form alongwith a blank cancelled cheque or photocopy thereof to:  
Bharat Heavy Electricals Ltd. Electronics Division, Mysore Road, BANGALORE -560026



Bharat Heavy Electricals Limited  
Electronics Division, Mysore Road, Bangalore – 560 026.

**PART-II (Price Bid)**  
**Subject: SS Piping for Nitrogen Line in SMT area**

SI no.	Description	Unit	QTY (A)	Rate/unit (Rs) (B)	Total (Rs) (A x B)
1	Supply, fabrication & erection of SS Seamless Pipe 316 / SS Seamless pipe 304, Sch.40	Mtrs.	40		
2	Supply, fabrication & erection of SS Elbow 316 / 304 ,seamless Sch.40	Nos.	8		
3	Supply, fabrication & erection of SS Box clamp for 1" Pipe	Nos.	20		
4	Supply, fabrication & erection of Safety relief valve size 1" suitable for Nitrogen gas . Working pressure 6-7 Bar.	Nos.	1		
5	Supply, fabrication & erection of Valve SS ball valve of PN16 rating 1" (3 Piece)	Nos.	4		
6	Supply, fabrication & erection of Pressure Gauge SS Body (Range 0 to 10BAR) with control valve	Nos.	2		
7	Pressure testing & commissioning of pipe line	LS	1		
8	Supply, fabrication & erection for SS Pipeline Angle support	LS	1		
9	<b>Total amount in Rs.</b>				
10	<b>GST %</b>				
11	<b>Total Inclusive of GST</b>				

Total Amount in words: