



BHARAT HEAVY ELECTRICALS LIMITED,
Electroporcelains Division, IISc Post
Bangalore - 560012

PART-A
TENDER
DOCUMENT

TENDER DOCUMENT

PART-A

(Techno-Commercial Bid)

Name of Work: Supply, Installation and commissioning of compressed air pipeline work for Central Compressor house and SPV module manufacturing bay

Department : Works Engineering
Section : Mechanical Maintenance



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1.0

NOTICE INVITING TENDER

Sealed bids are invited from the registered contractors in single stage two part bid for the following works as detailed below:

Sl. No.	Work Description	Tender Enquiry No. / Date	EMD (in Rs.)
1	Supply, Installation and Commissioning of Compressed air pipeline in Compressor house and SPV Module manufacturing bay	BHEL:EPD:WEX:MECH:PV:01	Rs. 1,00,000.00 (Rupees One Lac only)

Contract completion time	: Three Months.
Cost of Tender documents	: Rs. 500.00 (Rupees Five Hundred only)
Issue of tender documents	: From 23.05.2016 onwards
Last date and time of Issue of tender documents	: Up to 2-00 PM of 14.06.2016
Last date and time for submission of tender documents	: Up to 2-30 PM of 14.06.2016
Date of opening of Tender (part – A)	: 3-00 PM of 14.06.2016

Note:

1. A set of tender documents (Non-transferable) may be purchased on any working day (Monday to Saturday) between 09:00 hours and 12.00 hours from WEX Department, BHEL-EPD, Bangalore – 560012 by paying the prescribed tender fee of Rs.500/- only in cash through Pay in Slip issued by BHEL or a crossed demand draft in favor of BHEL payable at Bangalore. NSIC registered vendors are exempted from paying Tender Document Fee.
2. The tender documents can also be downloaded free of cost from our websites: www.bhelceramics.com or www.bhel.com
3. EMD is to be paid in the form of Demand draft or pay order. NSIC registered vendors are exempted from paying EMD.
4. Contract will be governed by all statutory requirements amended from time to time & General terms & conditions of the contract of BHEL.
5. BHEL reserves the right to reject any or all the tenders without assigning any reasons whatsoever. Decision of BHEL in this regard shall be final & binding to all parties.
6. The tenders meeting our techno-commercial requirements will be considered for price bid opening at a later date for which eligible vendors will be intimated in due course. BHEL reserves the right for conducting REVERSE AUCTION instead of opening the submitted sealed price bid, which will be decided after techno-commercial bid evaluation. Reverse Auction will be conducted by BHEL only if there is minimum four (04) techno commercially qualified offers are available. H1 bidders (Whose quote is highest in the initial ON LINE SEALED BID) will not be allowed to participate in the reverse auction and they also will not be considered for counter offer at later stage. BHEL will proceed with opening the sealed price bids in case the techno commercially qualified offers are less than four (04). Vendors should submit the price bid accordingly.

Date – 23.05.2016

Name: Amarjyoti Saikia
Designation: Engineer / Mechanical Maintenance
BHEL-EPD, Bangalore



PART - A

1a. BID APPLICATION

To

Engineer / Mechanical Maintenance
Bharat Heavy Electricals Limited
Electroporcelains Division,
IISc Post, Bangalore – 560 012

Dear Sir,

I / We hereby offer to carry out the work.....
Against Tender Enquiry No..... dated.....

I / We have carefully perused the following documents connected with the above mentioned work and agree to abide with the same.

- | | | |
|--|---|------------|
| <ol style="list-style-type: none"> 1. Notice Inviting Tender 2. Bid Application 3. Bid Questionnaire – A 4. Bid Questionnaire – B 5. Declaration by Bidder 6. Instructions to bidder 7. General terms and conditions 8. Specific terms and conditions 9. Evaluation of price bid 10. Scope of Work | } | (Part – A) |
| <ol style="list-style-type: none"> 11. Price Bid Format as per Schedule - A | | (Part – B) |

I/ We further agree to execute all the works referred to in the said documents as per the General terms and conditions.

I / We are in possession of independent ESI & PF Code and License under CL (R&A) Act.

I declare that, there was never / is no litigation or charge under investigation / enquiry / trial against me / us, nor conviction in a court of law or suspended or blacklisted by any organization on any grounds.

Signature of Bidder
Date:



1b. BID QUESTIONNAIRE - A

Tender Enquiry No: -

Date:

Details of the Contractor

- a) Name and address of the Firm:
- b) Name and address of the proprietor:
- c) Contact No.:
- d) Email ID:
- e) Is any contract being operated under the Control of the bidder in BHEL. Yes / No
(If yes furnish the details) :

<u>Location/ Address</u>	<u>Value</u>	<u>Date of Completion</u>
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1.

2.

3.

4.

- f) Is any relative of bidder Employed in BHEL Yes / No

(If yes furnish the detail)

Name

Staff no

Location / Area

Signature of the Bidder

Date:



1c. **BID QUESTIONNAIRE - B:**

01	ESI Code No	
02	License under CL (R&A) Act (if applicable)	
03	PAN No.	
04	PF Code No	
05	Service Tax Registration No.	
06	Banker's Name & Address	
07	Bank A/C No.	
08	Have you quoted rates for all the activities, as indicated in the price bid (Part – B) (Strike out whichever is not applicable)	Yes/ No
09	Have you submitted work completion certificates of having successfully completed work of installation and commissioning of compressed air pipeline for shop floor with a pressure requirement of 6 bar or more and flow requirement of min. 400 cfm. Vendor shall submit Minimum 2 Nos commissioning certificate for carrying out similar jobs in the last 3 years	Yes/ No
10	Agreed to deploy a full time supervisor for the work	Yes/ No
11	EMD Details	Bank Name: DD No.: Date: Amount:
12	Details of tax structure as quoted in Price Bid (Part B)	
13	Have you enclosed a cancelled cheque	YES / NO
14	Any other comments	

Note:

- I. Photocopy in support of above wherever applicable should be attached. Bidder to show the original documents if demanded by BHEL.
- II. Please note that if answer of SI No. 08, 09 & 10 is 'NO' then the bid is liable to be rejected.
- III. **Bidders are informed that the said work is a time bound and target oriented and hence the project to be completed by deploying adequate number of skilled manpower and adequate mechanized equipments for each of the activity.**
- IV. **Cancelled cheque is required for making financial transactions between bidders' firm and BHEL. It is also required for refund of EMD amount to the unsuccessful bidders.**

I declare that I have read the tender document completely and have understood the scope of work and terms & conditions governing the contract. I agree to abide by the same and other terms & conditions and guidelines issued by BHEL during the course of execution of the work as per the contract.

Signature of the Bidder
Date:



1d. DECLARATION BY THE BIDDER -B

I, -----, aged-----Yrs., S/o -----,

Residing at -----

Hereby declare as follows:

- (i) That my nationality is _____.
- (ii) That I am a major and eligible to enter into contract / my firm / my company is competent to enter into an agreement.
- (iii) I shall employ only such personnel who have not been found unfit for employment in Organizations such as Central / state / Public undertaking by the Police Authorities.
- (iv) I shall not employ persons against whom Criminal cases are pending or under investigation.
- (v) I shall also not employ persons found guilty of offences involving moral turpitude for executing work in BHEL contracts.
- (vi) That there are no Criminal cases pending or under investigation against me or my firm or company.
- (vii) I have not been found guilty of offences involving moral turpitude nor any of the company directors / partners of my firm have been found guilty of offences involving moral turpitude.
- (viii) Neither I nor my firm nor my company has been declared insolvent in the past.
- (ix) I have taken due care and efforts to furnish only information which are true in the tender document.
- (x) I shall employ labors who are more than 18 years of age and having sound physical and mental health.
- (xi) I shall keep Photograph / identity proof / residential proof of the labourers to be employed against this tender and arrange for police verification.

[Signature with Name & seal of the Bidder]

Date :

Place :



2.0 **INSTRUCTIONS TO BIDDER**

- 2.1 Tender is a two part bid system. The tender documents consist of Part – A and Part - B as detailed below:
Part 'A': Techno-commercial Bid (To be submitted in sealed cover enabling us to open on tender due date indicated)
Part 'B': Price Bid to be quoted as per Tender conditions in the schedule given by BHEL.
- 2.2 Part 'A' must be duly completed and sealed along with the undertaking in a separate envelope super scribed as **"Tender Enquiry No. BHEL:EPD:WEX:MECH:PV:01, Dated: 23.05.2016, Part 'A' - Techno-commercial Bid"**
- 2.3 **The bidder must not indicate the price or rate in the PART-A (Techno-commercial bid).**
- 2.4 Part 'B' must be duly completed with reference to the tender conditions and put in a separate sealed envelope super scribed **"Tender BHEL:EPD:WEX:MECH:PV:01, Dated: 23.05.2016, Part 'B' – Price Bid"**.
- 2.5 Tender documents consisting of Part 'A' & 'B' duly sealed in a separate envelopes should be sealed in another envelope and should be deposited in the WEX - Tender Box kept at Reception so as to reach **on or before 14-30 Hrs Dt. 14/06/2016**. Part 'A' of tender form i.e. Techno-commercial Bid will be opened **on Dt. 14/06/2016 at 15.00 hours** the same day in the presence of bidders or their representatives who are present for the tender opening. Bidders who qualify in the Techno-commercial Bid will be intimated to attend the tender opening of part 'B' - price bid at a date to be notified separately. Part 'B' i.e. price Bid will be opened at the specified date in the presence of the bidders or their representative who are notified to attend the tender opening. The tender documents may also be sent either by registered post / Speed Post / Courier so as to reach on or before the said date and time.
- 2.6 The Techno commercial Bid (Part - A) and general terms and conditions shall form part of Techno-commercial offer. **Each page should be duly signed by the bidder as a token of acceptance.**
- 2.7 Part 'B' – the price Bid (Schedule-A) should not carry any conditions. Price / rate should be quoted in clear terms in the format given by BHEL. Part 'B' Price bid will be opened only in respect of those bidders who are qualified in Techno- Commercial Bid.
- 2.8 The bidder shall accept all the terms and conditions of the tender.
- 2.9 The tender forms both Part 'A' & 'B' duly filled in all respects shall be signed on each page by the bidder. Any alteration, erasure or over-writing will render the tender invalid. Alteration neatly carried out and duly attested over with the full signature of the bidder however is permitted.
- 2.10 Name of the bidder should be written or the contractors seal to be put on the sealed envelope.
- 2.11 Before making the offer the bidders are advised to carefully go through the terms and conditions, which form part of the agreement.
- 2.12 All entries in the tender document should be in one Ink. Corrections, over writing, cuttings etc. are not permitted. All the columns in the tender form should be filled without leaving any column blank in any page of the tender. In case any of the columns are left blank, the tender can be rejected.
- 2.13 For any further details required, tender issuing officer of BHEL/EPD, Bangalore may be contacted in person or through TELEPHONE NOS. **080-22182299/2344 (Mobile No. 9632011122).**
- 2.14 BHEL reserves the right to assess the capacity and capability of the parties for pre-qualification. The company also reserves the right to accept or reject any or all the tenders or any part thereof at any stage of process without assigning any reason whatsoever. The company has no obligation to accept the lowest tender. Offer of the Bidder if prima-facie found not comparable with the quantum of work envisaged and the bid is an effort to be L1, then the offer is liable to be rejected. BHEL's decision in this regard shall be final and binding.



- 2.15 **PRICE BID** - The bidders are required to submit their quotation for **all the items listed in Part 'B' in the price bid format SCHEDULE-A** given along with the tender documents. The price should be quoted for each activity after careful study of the actual job requirement so that, in case the contract awarded, contractor should not express any difficulties in execution of the contract.
- 2.15.1 The tenders meeting our techno-commercial requirements will be considered for price bid opening at a later date for which eligible vendors will be intimated in due course. BHEL reserves the right for conducting REVERSE AUCTION instead of opening the submitted sealed price bid, which will be decided after techno-commercial bid evaluation. Reverse Auction will be conducted by BHEL only if there is minimum four (04) techno commercially qualified offers are available. H1 bidders (Whose quote is highest in the initial ON LINE SEALED BID) will not be allowed to participate in the reverse auction and they also will not be considered for counter offer at later stage. BHEL will proceed with opening the sealed price bids in case the techno commercially qualified offers are less than four (04). Vendors should submit the price bid accordingly. The bidders should note that the Income Tax as applicable will be deducted from the bills of contractor.
- 2.16 **VALIDITY OF RATES** - The rates quoted should be valid for 90 days initially from the date of price bid opening.
- 2.17 BHEL reserves the right to reject any bid, which is technically unacceptable and unworkable. Further BHEL also reserves the right to reject any or all bids without assigning any reasons thereof.
- 2.18 Successful bidders shall enter into an agreement on stamp paper of Rs.100/= as a token of having accepted the rates, terms and conditions of the contract as per the Performa given by BHEL.
- 2.19 Any written communication required to be sent to the contractor in writing shall be sent at the address mentioned on the tender form or to any other address subsequently intimated by contractor in writing to BHEL EPD for the contract purposes.

3.0 GENERAL TERMS AND CONDITIONS

3.1 General Conditions & Eligibility Criterion:

- 3.1.1 Bidder should have the essential License under Contract Labour (Regulation & Abolition) Act 1970 (if applicable). A copy of the license should be submitted along with the bid documents. Successful bidder has to get the endorsement in the license for the areas and nature of work which they will be performing as part of the contract.
- 3.1.2 Bidder should have independent ESI Employer code under ESI Act 1948, copy of the certificate to this effect shall be submitted along with the bid documents.
- 3.1.3 Bidder should have independent PF code under Employee Provident Fund and Miscellaneous Provisions Act 1952, copy of the certificate to this effect shall be submitted along with the bid documents.
- 3.1.4 The bidder shall also mention the PAN Number issued by Income Tax Department, copy the PAN card or PAN number allotment letter shall be submitted along with the bid documents.
- 3.1.5 Also Further, Experience of having successfully completed Vendor shall have experience in laying compressed air pipeline for shop floor with a pressure requirement of 6 bar or more and flow requirement of min. 400 cfm. Vendor shall submit Minimum 2 Nos commissioning certificate for carrying out similar jobs in the last 3 years.
- 3.1.6 There should be no litigation or charge under investigation / enquiry / trial against the Bidder, or conviction in a court of law or suspended or blacklisted by any organization on any ground.
- 3.1.7 The opinion / decision of BHEL regarding the bid shall be final and conclusive. BHEL reserves the right to reject any or all the bids at any time without assigning any reason.
- 3.1.8 In case the bidder has a relative employed in BHEL, the authority inviting tender shall be informed of this fact in writing at the time of submission of tender, failing which the tender may be disqualified, or if such fact comes to light subsequently, the contract may be terminated.
- 3.1.9 If the bidder gives wrong information in his tender or creates conditions favorable for the acceptance of his tender, BHEL reserves the right to reject such tender at any stage.
- 3.1.10 BHEL reserves the right to award the contract to one or more contractor simultaneously as deemed fit at the initial stage or during the contract period.



3.2 EARNEST MONEY DEPOSIT (EMD):

Earnest Money Deposit as indicated in the NIT is to be submitted along with tender documents. EMD is payable Demand Draft / Pay order favoring BHEL payable at Bangalore. EMD by the Tenderer will be forfeited as per Tender Documents if:

- i) After opening the tender, the tenderer revokes his tender within the validity period or increases his earlier quoted rates.
- ii) The tenderer does not commence the work within the period as per LOI /Contract. In case the LOI / contract is silent in this regard then within 15 days after award of contract.

EMD given by all unsuccessful tenderers shall be refunded normally within fifteen days of acceptance of award of work by the successful tenderer. EMD shall not carry any interest.

NSIC registered vendors are exempted from payment of EMD.

3.3 SECURITY DEPOSIT (SD) :

- 3.3.1 Successful bidder has to submit Security deposit at a rate of 1 Lakh plus 7.5% of the contract value exceeding 10 Lakhs before commencement of the work.

3.3.2 Security Deposit is accepted in any one of the following forms:

- i) Cash (as permissible under the Income Tax Act)
- ii) Pay Order, Demand Draft in favour of BHEL
- iii) Local cheques of scheduled banks, subject to realization.
- iv) 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).
- v) Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL.
- vi) 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.
- vii) Security deposit can also be recovered at the rate of 10% from the running bills. However in such cases at least 50% of the Security Deposit should be collected before start of the work and the balance 50% may be recovered from the running bills.
- viii) EMD of the successful tenderer can be converted and adjusted against the security deposit.
- ix) The security deposit shall not carry any interest.

(Note: Acceptance of Security Deposit against Sl. No. (iv) and (vi) above will be subject to hypothecation or endorsement on the documents in favour of BHEL. However, BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith).

- 3.3.3 Failure to pay the security deposit shall be treated as failure to discharge the duties under the contract and shall result in cancellation of the contract awarded and the bidder shall be liable to compensate the losses if any incurred by BHEL on this account. The security deposit shall be refunded within a six months after the date of expiry of the contract period subject to the contractor fulfilling all obligations and operations as required under the contract.

- 3.3.4 BHEL reserves the right to appropriate the whole or any part of the amount of the security deposit without prejudice to other claims against the contractor for losses suffered by BHEL due to failures on the part of the contractor or due to termination of contract or contractor becoming disqualified because of liquidation and other reasons. Such losses, damages, charges, expenses or cost, as assumed by BHEL shall be final and binding the contractor and shall not be called into question.



3.4 STATUTORY REQUIREMENTS:

While quoting the rate, the bidders are advised to take note of minimum wages payable to workmen. The bidder will be required to comply with all the statutory provisions such as PF, ESI, Service Tax, minimum wages prevailing at the time of payment, leave, etc. The Income Tax as applicable will be deducted from the bill of contractor.

The contractor shall submit the documentary evidence of payment on account of submission of statutory payments made to the concerned agencies before clearance of bill of next month.

- 3.4.1 The bidder shall comply with the provisions of the Factories Act 1948, Contract Labour (Regulation and Abolition) Act 1970, ESI Act, Employees Provident Fund and Miscellaneous Act 1952, Minimum Wages Act 1948, Industrial Disputes Act, 1947, Employers Liability Act 1938, Inter State Migrants Workmen (Regulation of employment and conditions of Service) Act 1979 and or any other Laws and Rules that may be applicable from time to time to the workers engaged by him. The bidder, when required by the Company shall produce the registers and records for verification and comply with other directions issued by the company for compliance of the statutory provisions.
- 3.4.2 The Bidder shall fully indemnify the loss if any caused to BHEL due to any default or non-observance of any of the laws, or any omission or commission or inability on the part of the Bidder or his representative.
- 3.4.3 The Bidder shall, keep and produce for inspection at all times, forms, registers and other records required to be maintained under various statutes in order go through them by the Company whenever required.
- 3.4.4 The Bidder shall produce to the Company, the documentary proof of payment of the said statutory dues. Non-observance of the provisions will be construed as default by the Bidder in making such payment, and payment of his bill will be deferred.
- 3.4.5 Each bidder will be required to maintain the daily attendance of his labours in the prescribed Proforma for accounting payment of minimum wages, deduction towards ESI & PF Contributions, leave etc.
- 3.4.6 The bidder will have to follow the provisions of Payment of Bonus Act 1965 and Rules 1975, and is liable to pay Bonus to his workers
- 3.4.7 The bidder will have to extend paid National Holidays and Festival Holidays to their workmen as per the provisions of Act and the Rules thereof. However, if due to exigencies of work the contractor engages his workmen on National Holidays or Festival Holidays contractor shall pay additional wages as prescribed under the provisions of the Act.

3.5 MANPOWER

- 3.5.1 The contractor shall be responsible for safety of his laborers while they are engaged for work connected with BHEL contract. Contractor has to obtain work permit from Safety Officer while carrying out certain type of works such as digging, working at heights (above 3 meter), working in enclosed space etc., as per the directions of section-in-charge.
- 3.5.2 The bidder, as the employer of his workmen, shall manage them. In the event of any dispute arising between the Bidder and his employees, the Bidder alone is solely responsible for resolving the dispute between them and BHEL will in no way be responsible for settling the dispute either statutory or otherwise.
- 3.5.3 The bidder will be solely responsible for executing the agreed work and the employees of BHEL will only oversee the proper execution of work. The contractor or his representatives shall be available in the factory to control his workers and take down instructions from the designated officials of BHEL.
- 3.5.4 The Bidder shall have full control over his employees including w.r.t determining service conditions, discharge, dismiss, or otherwise terminate their services at any time. The bidder shall be solely responsible for any claim arising out of employment or termination of employment of his employees and for statutory payments.



- 3.5.5 The bidder shall employ only such personnel who are medically fit. The company has right to direct the bidder to remove from the premises such of his personnel who may be physically, hygienically, clinically or medically unfit.
- 3.5.6 Contractor shall not employ workmen who are less than 18 years of age.
- 3.5.7 Contractor has to ensure presence of his supervisor who should be capable of managing of his workforce, carry out the job smoothly, maintaining and submitting all statutory records and co-ordination with designated BHEL officials.

3.6 FAILURE TO COMPLY WITH CONTRACT

- 3.6.1 Notwithstanding anything contained in any other clause, BHEL reserves the right to terminate the contract due to any failure on the part of the Bidder in discharging his obligations under the contract or in the event of his becoming insolvent or going into liquidation. The decision of the BHEL about the failure on the part of the Bidder shall be final and binding on the bidder.
- 3.6.2 In case of any damage to the existing building, structures, materials, tools, furniture and fixtures, machines etc., caused from contractor's end, the cost of its repairs or replacement will be recovered from the contractor. If there is any stoppage of production in any area of the plant due to the fault of the bidder, the bidder is liable to compensate the same.
- 3.6.3 **In the event of any failure on the part of the bidder, BHEL shall have the right without prejudice to any other right or remedies, to get the work done through any other agency and the Bidder shall be liable to compensate BHEL for any losses on this account. The additional cost, loss, if any incurred by BHEL will be recovered from the bills, security deposits, other dues as well as directly from the bidder.**
- 3.6.4 The cancellation of contract may be either whole or part of the contract at BHEL's option. However the contractor shall continue to operate that part of contract which has not been terminated.
- 3.6.5 The decision of BHEL regarding interpretation of any terms and conditions set forth in the agreement shall be final and binding on the contractor.

3.7 LD CLAUSE

Contract completion time is 4 months from the date of issue of work order. However, the completion schedule should be adhered as per the service calls indicated in the scope of work. Bidders to confirm their acceptance for completing the work as specified. The successful bidder has to provide a schedule of activities indicating the period. Failure of the contractor to complete the work as agreed up on will attract liquidated damages (LD) at the rate 1.0% per week subject to a maximum of 5%. For delay beyond 4 weeks, BHEL may at its discretion, cancel the contract and recover the damages including for delays from the security deposit and other out standings due to the contractor.

3.8 PAYMENT TO THE CONTRACTOR

The payment to the contractor will be done after the completion of the work in stages for the work carried out. Payment will be made by E – Payment only and for which the bidders are to provide the following information along with their offers in their letter head duly signed:

1. Bank Name, 2. Bank Address, 3. Bank Phone, 4. IFSC Code (NEFT), 5. Bank Account Number, 6. PAN,
7. Service Tax Number, 8. TIN, 9. E-mail ID, 9. Cancelled cheque

3.9 SUB-CONTRACTING

The contractor shall not sub-contract or transfer or assign the contract in full or in part or any part thereof to any other person or firm or company. The contract will be governed by the Laws of India for the time being in force and as amended or made from time to time. All disputes shall be settled in accordance with the Laws of India for the time being in force and as amended from time to time.

3.10 LEGAL JURISDICTION:

In respect of all matters arising out of or pertaining to the contract, the cause of action thereof shall be deemed to have arisen only at Bangalore, where BHEL - EPD is situated. All legal proceedings pertaining to the above matters



or dispute shall be instituted only in courts having territorial jurisdiction over the place where BHEL-EPD is situated and no other court shall have the jurisdiction.

3.11 DUTIES AND RESPONSIBILITIES OF THE CONTRACTOR :

The duties and responsibilities and obligation of the contractor including statutory responsibilities mentioned in this document is indicative and not exhaustive. Contractors are required to confirm with the concerned authorities for proper and complete compliance.

3.11.1 The contractor will not engage any child labour (i.e. any workers below the age if 18 years) and the contractor will abide by the provisions of child labour (Prohibition & Regulation) Rules 1988. He should issue appropriate appointment Letter to his Workmen.

3.11.2 The following documents / forms under Contract Labour (Regulation & Abolition) Act 1970 and relevant rules therein shall be maintained by the contractor:

- (i) A notice showing the wage period and the place and time of disbursement of wages to be displayed at the place of work and a copy sent by the contractor to the HR Department (Rule 75).
- (ii) A register of workman From XIII (Rule 75)
- (iii) Employment card From XIV (Rule 76)
- (iv) Service Certificate From XV (Rule 77)
- (v) Muster Roll, Wage Register, Deductions Register, overtime Register Etc.

3.11.3 The contractor shall comply with the provisions of Contract Labour (R & A) Act including provisions relating to welfare and Health facilities as provided under the Contract Labour (R& A) Act 1970 and relevant rules.

3.11.4 EPD – Bangalore is a Notified Area under the provisions for ESI Act 1948, the contractor shall comply with the provision of ESI Act, and will be responsible for any liability arising during the tenure of the work contract under the Act, The contractor should ensure ESI coverage and facilities to his workers (i.e. ESI code no. and ESI card etc.,) as per ESI Scheme from ESI authorities including Medical Benefit etc., The contractor shall arrange for filling of family declaration forms in respect of their contract labors and deposit the same in ESI office for issue of Identity card by ESI authorities. The contractor may deduct required ESI contribution from the wages of their employees as per law and deposit the same (Employees share) along with his contribution to the ESI authorities.

3.11.5 Workmen insured under ESI Act only shall be deployed in contract work.

3.11.6 The bidder shall submit bi-annual return in Form 6 along with monthly Challans to the appropriate authority under the provisions of Employee's State Insurance Act 1948.

3.11.7 Not with standing anything contrary to this, in the event of accident the contractor shall be required to submit injury report to the concerned authorities with a copy of the same to the designated BHEL Executive immediately and ensure the compliance of the ESI Act and rules made therein.

3.11.8 The bidder shall submit the following returns to the appropriate authority under the provisions of Employee's Provident Fund and Misc. Provisions Act 1952, Employees' Pension Scheme 1995.

- 3.11.8.1 Monthly return in Form 12 A along with form 5 & 10 (addition and deletion) and monthly Chalan.
- 3.11.8.2 Annual Return in Form 6A along with Form 3A.

3.11.9 The Contractor shall maintain the following records as required under the Employees Provident Fund And Miscellaneous Provisions Act 1952, Employee's Pension Scheme 1995

- (i) Declaration of Nomination, Form No.2 Para 33 and 61 (1).
- (ii) Pass Book.
- (iii) Cash Book.
- (iv) Attendance.
- (v) Wage Register.



- 3.11.10 The contractor shall regularly pay the amount of contribution (employer's contribution as well as the employee's contribution) as per the Employee's Provident Fund and Miscellaneous Provisions Act 1952, Employees Pension Scheme 1995 and Employee's State Insurance Act 1948.
- (i) The contractor may recover from his workmen, the employee's contribution in accordance with the provision of the said act and the Scheme but shall not recover the employer's contribution or the other charges from his employees in any manner.
- (ii) The contractor shall submit along with monthly bills to BHEL, statement showing the recoveries of contributions in respect of employees employed by or through him along with the proof of Deposit of such contribution with the Concerned Authority and shall also furnish to BHEL such information, in the capacity of principal Employer, as required to furnish under the provisions of the schemes under the Employees P.F. and Misc. provisions Act 1952 and ESI Act 1948 to the authorities under the said acts.
- 3.11.11 In case of revision of Minimum Wage by the State Govt. after the award of work by BHEL, the contractor will be liable to pay the difference of increased wages for such period. Any failure to comply with the statutory requirements on the part of contractor shall disqualify such contractor from all contracts awarded to him and his name shall be black listed for further tenders / contracts. In addition, the contractor's security deposit shall be forfeited apart from consequential legal action against him.
- 3.11.12 The contractor shall maintain Form D as per Rule 5 of the PAYMENT OF BONUS ACT 1965. The contractor is further liable to pay bonus to his employees in accordance with the payment of Bonus Act 1965 and to keep all the records in Form C as per the said Act.
- 3.11.13 Contractor shall supervise the work allotted to him and to be carried out by his employees.
- 3.11.14 Contractor to ensure that the employees deployed in the premises of BHEL are physically and mentally fit and do not have any criminal records.
- 3.11.15 In case contractor fails to make payment of wages to his employees or remittance of contribution to the concerned authorities, the Security deposit / other dues payable under the contract can be utilized by BHEL to discharge the liability of the contractor.
- 3.11.16 The liability for compensation on account of injury sustained by an employee of the contractor will be exclusively that of the contractor.
- 3.11.17 **NATIONAL & FESTIVAL HOLIDAYS:** (as declared by BHEL):
The contractor will give paid National Holidays and Festival Holidays to the workers as per Section 5 of National and Festival Holidays Act. However, if due to the exigency of work if any of his workmen is required to work on National Holiday or Festival Holiday, the contractor has to pay wages as per Section 5, sub section 2 and 3 of the said act.
- 3.11.18 Besides the three national holidays 15th August, 26th January and 2nd October, if Govt. declares any other day as a national holiday same will be treated as paid holiday for the purpose of this contract. Accordingly the contractor shall be required to provide paid holiday to its workers for the same. If any of the contract workers works on such additional declared national holiday, he will be entitled to additional wage for the said day.
- 3.11.19 **GENERAL ELECTIONS:** If the general elections are held for State Assembly / Parliament and Government declares a public holiday for exercising the franchise, the contractor shall give their workmen half day leave in "First" shift only. The contractor's workmen working in B and C shifts will be required to exercise their franchise during their own time.
- 3.11.20 Contractor has to ensure that all his workmen are granted one day weekly off after every 48 hrs. of working.
- 3.11.21 The contractor shall follow safety rules and regulations as per provisions of Factories Act 1948, and Rules at his own expense and arrange for the safety provisions as appended to these conditions or rules framed by the government from time to time.
- 3.11.22 Security deposit money of contractor will be refunded only after expiry of (6) six months from the date of completion of the contract and Inspection report by ESI Authorities. In case any dues are claimed by the ESI Authorities, the dues of the contractor will be settled only after settling dues with ESI Authorities.



- 3.11.23 Contractor shall inform his PAN to BHEL. Income tax as applicable will be deducted at source by BHEL from the bill of contractor.
- 3.11.24 All the Registers and Records, forms, Notices maintained under the relevant Acts and Rules should be produced on demand before the Inspector or any other authority under the Act, failing which the contract may be terminated without any notice.
- 3.11.25 Contractor shall be required to submit a list of his workers to be deployed for the works contract giving details regarding Name of contract worker Fathers Name, permanent and Present Address, Date of Birth, Qualification, Caste-SC/ST/OBC ESI No, PF No. and the workmen family member details.
- 3.11.26 The contractor shall promptly furnish all information and document required by BHEL authorities for the purpose of complying with the responsibilities of Occupier of the factory and shall render all the necessary assistance for the same.
- 3.11.27 The contractor will maintain proper discipline of his workmen and will ensure that his workers do not cause any loss or theft or damage to any company's property. The contractor will also be responsible for the good conduct of his workmen.
- 3.11.28 The contractor or his authorized representative shall be required to be present at the work place / site during working hours for the purpose of supervising the work and executing as per contract.
- 3.11.29 The contractor shall ensure and maintain uninterrupted progress of the work in accordance with instructions given to him on behalf of BHEL from time to time.
- 3.11.30 In case the contractor makes default in commencing the work within the time specified by BHEL without any reasonable cause, disputes any of the terms and conditions of the contract or refuses to execute the contract or any part thereof at any stage, the contract shall, without prejudice to any other right or remedies available to BHEL, be liable to be canceled / terminated in part or in whole. In the event of such cancellation / termination of contract, the contractor shall be liable; to compensate BHEL for all losses incurred by BHEL including the loss suffered on account of having the work executed through any other contractor or department as may be convenient to BHEL, in accordance with the exigencies of the work. In case only a part of the contract is canceled, the remaining portion of contract may be allowed be executed by the contractor.
- 3.11.31 Whenever any sum of money is found to be recoverable from or payable by the contractor, the same will be deducted from any sum that may due or which at any time there after becomes due to the contractor under this contract or under any other contract or from his security deposit. In case the recoveries are not complete even after such deduction, the contractor shall pay the same or the balance thereof from the security deposit. The contractor shall immediately thereafter pay such further sums as may be required to replenish the shortage caused by such recoveries in the amount of security deposit.
- 3.11.32 During the currency of contract, if the contractor is awarded any other work contract in BHEL, the contractor will have to inform the designated BHEL official before accepting the other work.
- 3.11.33 In case of failure on the part of the contractor to execute the work awarded to him within the stipulated time the sum equivalent to the earnest money deposit as per BHEL Works Policy shall be forfeited as per the undertaking provided by bidders, after a week notice issued by the awarding officer and BHEL may in its discretion award the contract to any other party.
- 3.11.34 In case of any extra work executed by the contractor, the contractor will paid on pro-rata basis as per the provisions of extant policies.
- 3.11.35 All the terms and conditions as mentioned in work order will also form a part of the agreement.
- 3.11.36 BHEL shall have the right to deduct any sum from the bill of the contractor for making good the loss suffered by a worker or workers by reason of non-fulfillment of the conditions of the contract, Non- payment of wages or of deduction made from his or their wages which are not justified by the terms of the contract or non-observance of the said contract Labour regulations.
- 3.11.37 The contractor shall be responsible for observance of local laws, employment of personnel, payment of taxes etc. As far as possible, workers shall be engaged from the local areas in which the work is being executed.
- 3.11.38 The contractor shall be wholly responsible for the behavior of the workmen at the work place and outside, in the BHEL premises.
- 3.11.39 The contractor shall be responsible for safe custody of BHEL's property like materials, tools etc., entrusted to him and if necessary arrange insurance at his own expense.
- 3.11.40 BHEL officer In-charge shall have the right to stop the work at any stage or at any time by giving the contractor the seven days' notice in writing and the measurement of the work shall be made by the officer or his authorized representative at any time after due notice at the time of measurement to the contractor. When the payment is made to



the contractor based on such measurement, whether or not the contractor or his agent was present at the time of measurement, he shall have no further claim against BHEL

3.11.41 **ARBITRATION:**

If at any time, any question, dispute or difference on matter connected with this work order should arise, the same shall be referred for arbitration to a person nominated in this behalf by Head of Unit, BHEL Electroporcelains Division, Bangalore, the award shall be final and binding on both parties.

3.11.42 In any matter pertaining to law, the agreement shall be subject to limits of local jurisdiction.

4.0 EVALUATION OF PRICE BID:

- (i) **Rate must be quoted for all the activities mentioned in the price bid Proforma as the job would be awarded to successful bidder on Turnkey basis. In case bidder does not quote rates for all activities, BHEL reserves the right to reject such offer.**
- (ii) **Evaluation of the L-1 bidder shall be computed on overall basis (Grand Total Price indicated in the schedule).**
- (iii) **In the event of two or more bidders becoming L1, the selection of the bidder for the purpose of awarding contract will be on the basis of LOTTERY to be held in presence of representatives of L1 bidders.**
- (iv) **The rates quoted by the bidder should be workable and include all charges on statutory requirements.**
- (v) **If there will be any deviation between quoted rate and calculated amount based on quoted rate, the rate quoted in the prescribed format will be considered as final. In case the quoted rates are different in terms of numbers and words, the lowest value will be taken into consideration.**

IMPORTANT NOTE:

- (vi) **No prices to be filled up in this format. All prices are to be filled up only in price bid.**
- (vii) **The commercial terms and all tax structure shall be given with Technical bid. Non – acceptance of our commercial terms may lead to rejection of your offer.**
- (viii) **During technical scrutiny, our Works Engineering department may ask further clarification. The technical reply may be sent directly to the concerned person. But additional or revised price bid, if any due to technical changes or price negotiation must be sent in separate sealed cover to Works Engineering department only.**



5.0 SCOPE OF WORK AND SPECIAL TERMS & CONDITIONS.

Summary : BHEL-EPD is going to set up a Solar PV module manufacturing facility of capacity 200 MW per year. The manufacturing facility shall comprise of equipments which require compressed air for their functioning. Hence, 4 Compressors of 211 CFM each and 8.5 bar pressure at the compressor discharge end are being procured, out of which 2 Compressors will be run continuously, and remaining 2 will be standby. However, the standby compressors may be used in case of bay extension for enhancement of current capacity. Hence, compressed air pipeline needs to be installed and commissioned in the compressor house as well as in the manufacturing shop floor. The installation needs to be done in a professional way maintaining the aesthetics of the shop floor, should be easily accessible as well as should conform to the various quality standards. BHEL-EPD recommends use of Aluminium pipes only and push fit type fittings to the maximum extent. The make of the pipes and fittings shall be of make : Legris/ Atlas Copco/ Ingersoll Rand/ Boge/Festo whereas, the PU tubes and smaller fittings may be of make Festo/SMC/Janatics. The work will be allotted to OEM/ Authorized dealers of above mentioned makes only. The work comprises of Supply of materials, installation, commissioning and test run. The details of the work is mentioned below :

Sl No.	Name of work	Description of work	Vendor's Comments (Point wise clear confirmation to be given)
1	Inter-connecting pipeline work in compressor house	1.1. Vendor shall carry out Interconnecting pipeline work inside the compressor house. The work comprises of Connecting the compressors, prefilters, Refrigerated air dryers, after filters, air receivers and header unit. All the works shall be carried out as per BHEL approved layout drawing No. SPV-COMPRESSOR PIPING-01/Rev-00. 1.2.Planning of material, supply of material, erection and commissioning of the pipelines are scope of vendor. 1.3.However, the samples of all the materials to be incorporated in the work shall be furnished to the concerned BHEL officials for due approval prior to bulk procurement. 1.4. BHEL will provide material handling equipments available in BHEL-EPD premises if required. 1.5. Vendor to note that only Aluminium pipings shall be incorporated in the piping work.	
2	Designing of the compressed air layout for SPV Module manufacturing shop	2.1. Drg No. SPV-COMPRESSOR PIPING-02/Rev-00 is annexed with this scope of work, which summarises the layout to be installed in the SPV Module manufacturing shop floor. 2.2. Vendor may please note that the drg annexed here is indicative only, and detailed drawing will be made during techno-commercial discussion, and it shall conform to the following: a. Vendor shall design the compressed air pipeline to suit the use of Aluminium pipings and push fit type fittings b. Vendor shall also design the supporting structures to accommodate the compressed air pipelines inside the shop floor in consultation with BHEL. The routing of the	



		<p>compressed air line shall be accommodated in the existing trenches and also from beneath the equipment as per spaces provided. The pipelines can also be routed on the floor beneath the conveyor adjacent to the equipment. Supports may be taken from the nearest wall columns.</p> <p>c. The design must maintain proper aesthetics of the shop floor.</p> <p>2.3. After proper discussion and shop floor visit, the Drg can be revised incorporating the required changes, if any.</p> <p>2.4. All the installation works shall be carried out after approval of concerned BHEL officials.</p>	
3	Material Planning and Procurement	<p>3.1. After approval of the layout design, necessary components shall be planned. Aluminium or polyurethane pipings and push fit type fittings only shall be used in the whole compressed air layout. The use of threaded joints shall be minimized.</p> <p>3.2. Vendor must note that components of the following makes only shall be used in the network :</p> <ul style="list-style-type: none">a. Trans Air equipments by Legrisb. Air Net Piping System by Atlas Copcoc. Easi Fit airline systems by Boged. Simple Air Easy Pipeline system by Ingersoll Rande. FESTOf. For PU tubes, flexible pipings of make Festo, SMC, Janatics shall be usedg. All pipes shall be of Aluminium.h. Flexible tubes shall be of polyurethane.i. Brass ball valves shall be used in the system. Ball valves shall be of make: Itap/ Legris/L&T or equivalent as per standard engineering practice of the vendor subjected to approval of BHEL. <p>3.3. The samples of all the materials to be incorporated in the work shall be furnished to the concerned BHEL officials for due approval prior to bulk procurement. Necessary certificates / documents required for the bought out items are to be produced.</p> <p>3.4. The billing of material shall be done for actual quantity of materials used after necessary inspection and certification by BHEL executives.</p> <p>3.5. Material Guarantee certificate needs to be supplied along with the material at the time of supply.</p> <p>3.6. Delivery period shall not exceed 45 days from the date of receipt of Purchase Order.</p> <p>3.7. The items to be supplied shall be as per BOQ I and BOQ II enclosed as Annexure-B. However, the actuals may vary and payment will be made based on actuals.</p> <p>3.8. The Aluminium piping material used should be able to conform the following:</p> <ul style="list-style-type: none">a. Maximum working pressure = 13 barb. Maximum working temperature = 10° C to 60° C	



		<p>c. Burst Pressure = 60 Bar c. Piping material: Aluminium extruded and calibrated UV radiation resistant – suitable to indoor / outdoor use and corrosion resistant d. Resistant to mechanical shock and thermal variation e. Test certificate to be provided for piping materials and fittings</p>	
4	Providing the compressed air pipeline to SPV Module manufacturing shop	<p>1. Subject to the drawing approval and arrival of the required materials, the installation of the pipeline works shall be carried out by vendor. 2. Vendor shall bring all the necessary tools and tackles for the purpose of pipeline connection. 3. The Contractor should also bring necessary personal protective equipments like safety shoes, belts and hand gloves etc so as to work safely. 4. The contractor shall dispose the waste and scrap materials properly at the identified places as per the area supervisor instruction and maintain the work place cleanliness. 5. Material handling equipments like Floor crane, Fork Lift, Hydraulic crane, if required will be provided by BHEL-EPD . All erection and commissioning shall be carried out under supervision of qualified persons of vendor. 6. Provisions for Pressure gauges, Auto drains shall be fixed in the system in the positions designated by BHEL officials. 7. All pipe lines should be fabricated and erected as per general pipe laying standards ensuring proper levelling, straightness. Pipe lines shall be routed and fabricated to ensure minimum pressure drop/line loss. 8. All the pipe lines are to be properly supported and clamped at required locations.</p>	
5	Installation Period and Activity schedule	<p>5.1. Successful bidder shall come for installation and commissioning of the pipelines as and when called. 5.2. The duration for installation of compressed air pipeline in the CCH and Main Line in shop floor shall be within 45 days from the date of Work Order issue or clearance given by BHEL whichever later. 5.3. Installation of the branch lines and connections to individual equipments shall be done within 15 days from the date of service call given by BHEL. 5.4. Duration for testing of lines and connections - 1 Week 5.5. Successful bidder shall provide detailed activity schedule for the full work after receipt of work order. Any clarification required from BHEL in this regard shall be clearly brought out.</p>	



6	Inspection and Testing	Mode of inspection: Visual. Inspection shall be done by application of soap-water mixture at the joints. Min. pressure to be applied for test shall be 1.2 times the design pressure and max. applicable pressure is 1.5 times the design pressure or maximum allowable test pressure of any component. Duration of testing shall be 2 hours. In case of any leakage observed, vendor to arrange for necessary measures. Test shall be conducted in presence of BHEL officials and necessary precautionary measures shall be taken.	
7	Guarantee Period	7.1. For material: 24 months from the date of arrival of materials at BHEL-EPD premises. Vendor shall arrange for replacement of material in case of any failure. 7.2. For workmanship: 18 months from the date of installation certificate signed by BHEL official. Any service required during the warranty period shall be under the scope of vendor.	
8	Catalogue	Vendor shall provide detailed catalogues of the components to be used for reference of BHEL.	
9	Qualification Criteria	9.1. Vendor shall be either OEM viz. Legris/Boge/Ingersoll Rand/Atlas Copco/FESTO or shall be authorized dealer/ business associates for the same. Necessary OEM certificate or dealership certificate should be submitted for the same.	
		9.2. Vendor shall have experience in laying compressed air pipeline for shop floor with a pressure requirement of 6 bar or more and flow requirement of min. 400 cfm . Vendor shall submit Minimum 2 Nos commissioning certificate for carrying out similar jobs in the last 3 years.	
		9.3. Certifications and standards: a. Fire Resistance: All the components shall be fire resistant with no propagation of flame conforming to UL94 Classification b. Should conform to European standard 97/23-EC (equipment under pressure) c. Makes should conform to the following standards/ Certification : i. Extruded Aluminium pipes shall conform to EN-755.2/EN-755.8/EN-573-3 standard ii. Safety certification for components iii. Qualicoat (guarantee of quality of the lacquer finish applied to Aluminium pipings) iv. ASME B31.1 (Non boiler external piping) v. Test certificates conforming points mentioned in 3.8 should be as per EN-10204	
10	Validity of Bid	10.1. Bid shall be kept valid for a period of 90 days starting from the date of opening of Techno-commercial bid	



Note:

1. **Bidders are informed that the said work is a time bound and target oriented work and they have carry out all the activities by deploying adequate number of manpower and adequate machines for each of the activity.**
2. Only skilled workers trained for above said jobs and are also trained for working at heights only should be deployed.
3. Contractor has to ensure that the workmen deployed for the above said works must be covered under ESI.
4. Contractor to appoint a full-time supervisor for supervision of the work.
5. Contractors are advised to visit BHEL-EPD shop, meet the engineer-in-charge, discuss and completely understand the scope of work and shop requirements before submitting their quotations.
6. For the supply portion, payment will be made for the actual quantity of material consumed by the vendor. For the fixing portion, payment will be made for length actually covered.
7. Taxes and duties, if any, may be quoted separately at the space provided in Part B (Price Bid Format), otherwise the rate quoted, will be considered as inclusive of all taxes and no additional claims in this regard will be entertained later.

6.0

PRICE BID FORMAT

Refer Schedule – A – (Part – B)