

## INVITATION FOR TENDER FOR SUPPLY OF EQUIPMENT

Sealed tender offers are invited in two separate sealed covers (Technical and Commercial offers) from eligible manufacturers/suppliers or their direct Indian agents for the supply of the following equipment.

### **Supply of hydraulic power pack with listed accessories**

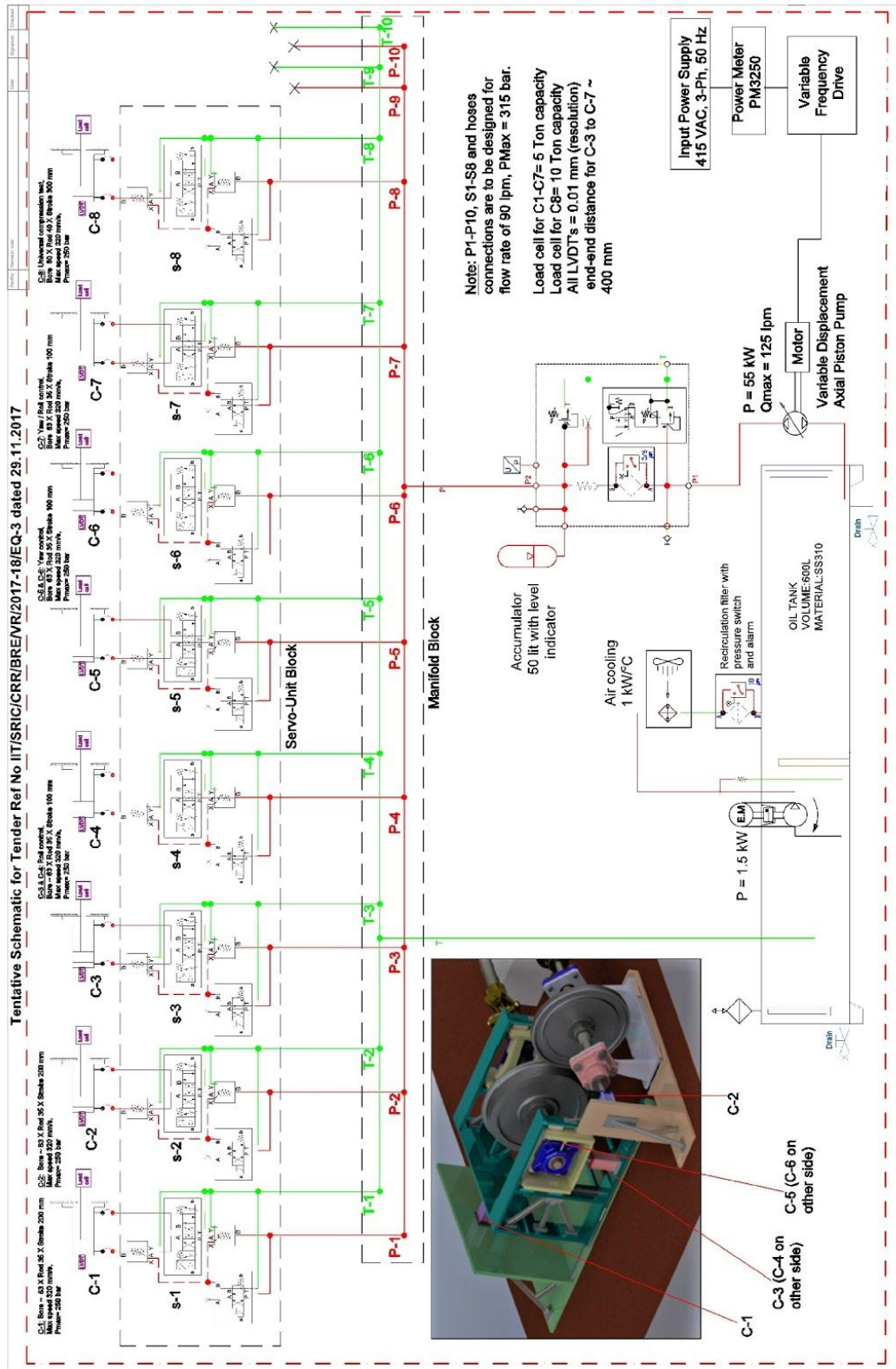
Please send offers, ALONG WITH DESCRIPTIVE CATALOGUE/BROCHURES and DATA SHEETS FOR QUOTED ITEMS. Please mention if you can COMPLY or NOT to specifications mentioned in following pages. Validity of bid should be four months (120 days) or more from tender opening date. Please ensure that your quotation reaches below address by 21st Dec, 2017, 15:00 Hrs:

**Prof. Vikranth Racherla,  
Associate Professor, Mechanical Engineering Department,  
Indian Institute of Technology Kharagpur – 721 302, West Bengal, India**

Earnest money deposit (EMD) of Rs. 40,000/- must be sent along with commercial and technical offers. EMD must be in the form of account payee demand draft in favour of “IIT Kharagpur”, payable at “Kharagpur, India”. Any bid not accompanied with an EMD will be rejected. EMD of unsuccessful bidders will be returned. No interest will be paid on the earnest money of the unsuccessful bidders. EMD will be forfeited if tenderer withdraws or amends its tender or impairs or derogates from tender in any respect within period of validity of its tender.

|  |  |
|--|--|
| <b>Tender Reference</b>                                      | <b>IIT/SRIC/ CRR / BRE/VR/ 2017-18/EQ-3, Dated:<br/>29.11.2017</b>   |
| <b>Price of Tender Document</b>                              | <b>NIL</b>   |
| <b>Last Date and Time for submitting the tender document</b> | <b>21.12.2017 at 15:00 Hrs (Indian time)</b>   |
| <b>Time and Date of Opening of Technical Bids</b>            | <b>21.12.2017 at 16:00 Hrs (Indian time)</b>   |
| <b>Place of Opening Tender</b>                               | <b>Center for Railway Research,<br/>Indian Institute of Technology<br/>Kharagpur – 721 302, West Bengal, India</b> |
| <b>Address of Communication</b>                              | <b>As stated above</b>   |
| <b>Contact Telephone Numbers</b>                             | <b>+91- 3222 – 282900 (Prof Racherla) / 282400 (CRR)</b>   |
| <b>E-mail</b>  | <b>vikranth.racherla@mech.iitkgp.ernet.in</b>  |

Tentative Schematic of the Required Hydraulic Power Pack (print on A3 sheet for clarity):



| BRIEF TECHNICAL SPECIFICATIONS (see tentative schematic shown above and following pages for detailed specifications). |   |        | Comply<br>(Yes/No) | Remarks |
|---|---|--------|--------------------|---------|
| S. No   | Material Description  | QYT    |                    |         |
| 01  | 600 liters capacity, dust proof (sealed) oil tank made from SS 310 sheets   | 01 NOS |                    |         |
| 02  | Oil level indicators  | 02 NOS |                    |         |
| 03  | Filter breather and dehumidifier  | 01 NOS |                    |         |
| 04  | Temperature switch point  | 01 NOS |                    |         |
| 05  | 400 bar or higher rated pressure sensors  | 02 NOS |                    |         |
| 06  | 55 kW, 3-phase, 415 V, 4-pole, IE2 grade, 50 Hz electric motor, force cooled  | 01 NOS |                    |         |
| 07  | 3-phase, 415 V, 60 kW VFD drive with panel for controlling the motor listed in S.No. 6  | 01 NOS |                    |         |
| 08  | Variable displacement axial piston pump   | 01 NOS |                    |         |
| 09  | 1.5 kW, 80 lpm maximum flow rate or better and 5 bar Pmax or better, around 1450 rpm rated fixed displacement pump with motor for oil cooling | 01 NOS |                    |         |
| 10  | 1 kW/°C or higher rated air cooled heat exchanger for cooling hydraulic oil   | 01 NOS |                    |         |
| 11  | Pressure relief valves  | 02 NOS |                    |         |
| 12  | Accumulator (50 liters), bladder type with safety shut-off block  | 01 NOS |                    |         |
| 13  | Pressure line filter with visual and electrical clogging indicators   | 01 NOS |                    |         |
| 14  | Recirculation filter with visual and electrical clogging indicators   | 01 NOS |                    |         |

|   |  |                 |  |  |
|---|--|-----------------|--|--|
| 15  | Manifold block suitable for handling overall flow of up to 130 lpm and pressures of up to 315 bar. The manifold block would be connected to pump and tank on one side (inlet side) and can connect to up to 10 hydraulic cylinders (i.e. 10 A, B lines) on other side. | 01 NOS          |  |  |
| 16  | Servo solenoid proportional directional valves with load-displacement control (NG series)  | 08 NOS          |  |  |
| 17  | Solenoid directional valves (NG series)  | 08 NOS          |  |  |
| 18  | Pilot to open check valves   | 16 NOS          |  |  |
| 19  | Servo unit block housing servo proportional valves, pilot to open check valves, and solenoid directional valves  | 01 NOS          |  |  |
| 20  | Pressure gauges (0-400 bar)  | 02 NOS          |  |  |
| 21  | Hydraulic cylinders integrated with LVDTs and load cells   | 08 NOS          |  |  |
| 22  | Minimess couplings   | 10 NOS          |  |  |
| 23  | PLC along with necessary software to monitor and control entire system from a computer   | 01 NOS          |  |  |
| 24  | Necessary hydraulic lines/hoses, connectors, data and power cables etc. to make set up work  | AS REQUIRED     |  |  |
| 24  | Warranty   | Minimum 3 years |  |  |
| 25  | Commissioning  |                 |  |  |
| 26  | Detailed user manual   | 01 NOS          |  |  |
| <p><b>NOTE:</b> Companies must visit the site and understand the requirement properly before submitting their bids. It is recommended that companies make their own schematic for the setup and bill of materials before coming for site visit.</p> <p>A USB drive may be submitted with detailed schematic, bill of materials, and data sheets of ALL parts being supplied with data sheet labeled as per their serial number in bill of materials and submitted with the technical bid. Signed and stamped hard copies are needed only for the schematic of the set up (on A3 sheet) and for bill of materials.</p> |  |                 |  |  |

DETAILED TECHNICAL SPECIFICATIONS for IMPORTANT COMPONENTS

| SL NO: | Parameter   | Specifications  | QTY       | Comply (Yes/No) |
|--------|---|---|-----------|-----------------|
| 01     | <b>Servo Solenoid proportional Directional valve (NG series) (S-1 to S-8)</b> | <ul style="list-style-type: none"> <li>● DLKZOR-TES-SL-EI-140-L33-C or equivalent</li> <li>● Closed loop control of load and displacement</li> <li>● Pressure range: 0-315 bar</li> <li>● Maximum flow rate: 90 lpm</li> <li>● Spool type: zero spool overlap with tail safe position</li> <li>● Response time : <math>\leq 15</math> ms(for 100% stroke )</li> <li>● Hydraulic fluid: mineral oils (DIN 51524)</li> </ul> <p><b>Make: ATOS/MOOG/Equivalent</b></p>   | 08<br>NOS |                 |
| 02     | <b>Solenoid directional valves (NG series)</b>                                | <ul style="list-style-type: none"> <li>● SDHE00631/2-00DC with PIC or equivalent</li> </ul> <p><b>Make: ATOS/MOOG/Equivalent</b></p>  | 08<br>NOS |                 |
| 03     | <b>Hydraulic cylinders with LVDTs and load cell</b>                           | <p><b>Hydraulic cylinder-1 (C-1) :</b></p> <ul style="list-style-type: none"> <li>● Stroke length : 200 mm</li> <li>● Bore dia ~ 63 mm, Rod dia ~ 35 mm</li> <li>● Operating pressure= 150 bar</li> <li>● Maximum pressure = 250 bar</li> <li>● Mounting type: Rear flange mounting or better suited ones</li> <li>● Load cell rating: 5 tons</li> <li>● LVDT Resolution: 0.01 mm</li> </ul> <p><b>Hydraulic cylinder-2 (C-2) :</b></p> <ul style="list-style-type: none"> <li>● Stroke length : 200 mm</li> <li>● Bore dia ~ 63 mm, Rod dia ~ 35 mm</li> </ul> | 08<br>NOS |                 |

|  |  |   |  |  |
|--|--|---|--|--|
|  |  | <ul style="list-style-type: none"> <li>● Operating pressure= 150 bar</li> <li>● Maximum pressure = 250 bar</li> <li>● Mounting type: Rear flange mounting or better suited ones</li> <li>● Load cell rating: 5 tons</li> <li>● LVDT Resolution: 0.01 mm</li> </ul> <p><b>Hydraulic cylinders-3 to 7 (C-3 to C-7) :</b></p> <ul style="list-style-type: none"> <li>● Stroke length : 100 mm</li> <li>● Bore dia ~ 63 mm, Rod dia ~ 35 mm</li> <li>● Operating pressure= 150 bar</li> <li>● Maximum pressure = 250 bar</li> <li>● Mounting type: Rear flange mounting or better suited ones</li> <li>● Load cell rating: 5 tons</li> <li>● LVDT Resolution: 0.01 mm</li> <li>● End to end to end distance in fully extended condition ~ 500 mm or less</li> </ul> <p><b>Hydraulic cylinder- 8 (C-8):</b></p> <ul style="list-style-type: none"> <li>● Stroke length : 300 mm</li> <li>● Bore dia ~ 80 mm, Rod dia ~ 40 mm</li> <li>● Operating pressure= 150 bar</li> <li>● Maximum pressure = 250 bar</li> <li>● Mounting type: Rear flange mounting or better suited ones</li> <li>● Load cell rating: 10 tons</li> <li>● LVDT Resolution: 0.01 mm</li> </ul> <p><b>Make:</b><br/><b>ATOS/HYDAC/HYDROTHREM/EQUIVALENT</b></p> |  |  |
|--|--|---|--|--|

|    |  |   |           |  |
|----|--|---|-----------|--|
| 04 | <b>Electric motor and Variable frequency drive</b> | <p><b>Electric motor:</b></p> <ul style="list-style-type: none"> <li>● 55 kW, 4 pole, 415V 3-phase AC, 50 Hz, IE2 grade</li> <li>● Force cooled</li> </ul> <p><b>Make:</b><br/><b>ABB/KIRLOSKAR/CG/SIEMENS/EQUIVALENT</b></p> <p><b>VFD:</b></p> <ul style="list-style-type: none"> <li>● 60 kW, 415 V 3-phase AC, 50 Hz Input Supply</li> <li>● Suitable for running the above 55 kW electric motor</li> </ul> <p><b>Make: CG (Emotron)/Danfoss/ABB/EQUIVALENT</b></p> | 01<br>NOS |  |
| 05 | <b>Variable displacement axial piston pump,</b>    | <p><b>Variable Displacement Axial Piston Pump:</b></p> <ul style="list-style-type: none"> <li>● PVPC-LW-5090 or equivalent</li> <li>● <b>Maximum working pressure:</b> 250 bar</li> <li>● <b>Power consumption at Max pressure:</b> 55 kW</li> </ul> <p><b>Make: Rexroth/Atos/Moog/EQUIVALENT</b></p>   | 01<br>NOS |  |
| 06 | <b>Fixed displacement pump and its accessories</b> | <ul style="list-style-type: none"> <li>● Fixed displacement pump with motor</li> <li>● 80 lpm maximum flow rate or higher</li> <li>● Maximum working pressure 10 bar or higher,</li> <li>● 1450 rpm</li> </ul>  | 01<br>NOS |  |
| 07 | <b>Pilot to open check valve</b>                   | <ul style="list-style-type: none"> <li>● Operating pressure : Max 315 bar</li> <li>● Flow rate : Max 100 lpm</li> <li>● Operating fluid : Mineral oil (DIN 51524)</li> <li>● Operating fluid temp. range : – 20° C to 80° C</li> <li>● Ambient temp. Range: – 20° C upto max 50° C</li> <li>● Filtration : Class 20/18/15 according to ISO 4406</li> <li>● Hole Pattern: According to ISO 5781-08</li> </ul> <p><b>Make: ATOS/HYDAC/REXROTH/EQUIVALENT</b></p>          | 16<br>NOS |  |

|    |                             |   |           |  |
|----|-----------------------------|---|-----------|--|
| 08 | <b>Oil tank (600 lit)</b>   | <ul style="list-style-type: none"> <li>• Material: SS310</li> <li>• 600L with all the tank accessories including drain valve(s), temperature switch, etc.</li> </ul>  | 01<br>NOS |  |
| 09 | <b>Heat exchanger</b>       | <ul style="list-style-type: none"> <li>• Air oil cooler with 1 kW/°C capacity or higher</li> <li>• Allowable oil flow rate up to 80 lpm or higher</li> </ul>  | 01<br>NOS |  |
| 10 | <b>Recirculation filter</b> | <ul style="list-style-type: none"> <li>• 10 micron with visual and electrical clogging indicator</li> </ul> <p><b>Make: Hydac/ Equivalent</b></p>   | 01<br>NOS |  |
| 11 | <b>Pressure line filter</b> | <ul style="list-style-type: none"> <li>• 5 micron with visual and electrical clogging indicator</li> </ul> <p><b>Make: Hydac/ Equivalent</b></p>  | 01<br>NOS |  |
| 12 | <b>Accumulator</b>          | <ul style="list-style-type: none"> <li>• 50L, bladder type with safety shut-off block</li> </ul> <p><b>Make: Hydac/Atos/ Equivalent</b></p>   | 01<br>NOS |  |
| 13 | <b>PLC with software</b>    | <p>Suitable PLC must be provided along with necessary software for monitoring and controlling the entire set up from a computer. Computer shall be provided by IIT.</p> <p><b>Make: Siemens/ABB/ Equivalent</b></p> | 01<br>NOS |  |
| 14 | <b>User Manual</b>          | <p>A detailed user manual must be provided for the entire set up contained data sheets for all important components and details related to operation and maintenance of the machine</p>                             | 01<br>NOS |  |



## **GENERAL TERMS & CONDITIONS**

PLEASE SPECIFICALLY INDICATE THE FOLLOWING POINTS IN YOUR QUOTATIONS AND COMPLY THE TERMS AS MENTIONED HEREUNDER:-

1. TENDER ARE INVITED COMPLYING THE REQUIREMENT FOR TENDER AS DETAILED IN THE TENDER SPECIFICATION TO BE SUBMITTED IN THE COMPANY'S / FIRM'S LETTERHEAD NEATLY PRINTED / TYPED DULY SIGNED BY AUTHORIZED PERSON WITH THE SEAL OF THE BIDDERS. ALL ENVELOPS CONTAINING THE TENDER SHOULD BE PROPERLY SEALED. SEPARATE ENVELOPS SHOULD BE USED FOR TECHNICAL AND PRICE BID AND INDICATION TO THEIR EFFECT MAY PLEASE BE SUPERSCRIBED ON THE ENVELOP.

### **THE FOLLOWING DOCUMENTS ARE REQUIRED FROM THE INDIAN AGENTS OF FOREIGN FIRMS:**

1.1 FOREIGN PRINCIPAL'S PROFORMA INVOICE INDICATING THE COMMISSION PAYABLE TO THE INDIAN AGENT AND NATURE OF AFTER SALES SERVICE TO BE RENDERED BY THE INDIAN AGENT.

1.2 COPY OF THE AGENCY AGREEMENT WITH THE FOREIGN PRINCIPAL INDICATING THE NATURE OF AFTER SALES SERVICES, PRECISE RELATIONSHIP BETWEEN THEM AND THEIR MUTUAL INTEREST IN THE BUSINESS.

1.3 PLEASE ENCLOSE THE DOCUMENT(S) RELATED TO THE ENLISTMENT OF THE INDIAN AGENT WITH DIRECTOR GENERAL OF SUPPLIES & DISPOSALS (DGS & R) UNDER THE COMPULSORY REGISTRATION SCHEME OF MINISTRY OF FINANCE.

2. TECHNICAL CATALOGUE/LEAFLET SHOULD BE ENCLOSED WITHOUT FAIL. PROVIDE COMPLIANCE STATEMENT WITH RESPECT TO THE TECHNICAL SPECIFICATIONS MENTIONED ABOVE.

3. PLEASE CONFIRM WHETHER YOU ARE AUTHORISED TO QUOTE ON BEHALF OF YOUR PRINCIPALS AND IF SO, PLEASE ENCLOSE A COPY OF SUCH AUTHORISATION WITH YOUR QUOTATION.

4. **PRICE BIDS FOR FOREIGN FIRMS:** PRICES ARE TO BE QUOTED ON 'EX-WORKS' DULY PACKED OR ON "FCA/FOB" INTERNATIONAL PORT" BASIS AND ALSO INCLUDING AGENCY COMMISSION PAYABLE TO YOUR INDIAN AGENTS, IF ANY SHOWING CLEARLY THE FOLLOWING BREAK UP:-

- I) EX-WORKS PRICE
- II) PACKING & FORWARDING
- III) FREIGHT
- IV) ANY OTHER RELEVANT EXPENSES.
- V) TAXES PAYABLE BY THE INSTITUTE

INSURANCE WILL BE PAID BY OUR INSTITUTE SEPARATELY AND SHOULD NOT FORM PART OF THE QUOTED PRICE.

**PRICE BIDS FOR INDIAN FIRMS:** PRICES ARE TO BE QUOTED ON F.O.R., IIT KHARAGPUR, ON DOOR DELIVERY BASIS CLEARLY SHOWING THE BREAK UP.

5. **PERIOD OF VALIDITY:** BIDS SHALL REMAIN VALID FOR ACCEPTANCE FOR A PERIOD OF 120 DAYS FROM THE DATE OF OPENING.

6. INDIAN AGENTS ADDRESS AND PERCENTAGE OF AGENCY COMMISSION INCLUDED IN ABOVE F.O.B./EX-WORKS PRICE. (THIS WILL BE PAID TO THE INDIAN AGENTS IN INDIAN RUPEES ONLY AND NOT IN FE). PLEASE ENCLOSE COPY OF AGENCY AGREEMENT ENTERED INTO WITH YOUR PRINCIPALS INDICATING THE NATURE OF AFTER SALES SERVICES OF INDIAN AGENTS, PRECISE RELATIONSHIP & MUTUAL INTEREST IN THE BUSINESS.

7. **MEASUREMENTS/WEIGHT:** NETT/GROSS OF THE CONSIGNMENT. IN CASE OF AN ORDER, YOU SHALL USE AIR WORTHY PACKAGE (AS APPLICABLE) DULY CERTIFIED

WITH DOCUMENTS – PLYTO – SANITARY CERTIFICATE (AS PER QUARANTINE ORDER 2003).

8. **SCOPE OF SUPPLY:** SHOULD INCLUDE FREE INSTALLATION AND COMMISSIONING

9. **PAYMENT TERMS FOR FOREIGN FIRMS**

**The offer will be made on a single currency and only one PO will be issued for the entire scope of the supply.**

A) 90% PAYMENT THROUGH SIGHT DRAFT/FORIGN DEMAND DRAFT/LC (EXCEPTIONAL CASES)/SWIFT TELE TRANSFER AFTER RECEIPT OF STORE IN GOOD ORDER AND CONDITION AND 10% AFTER SUCCESSFUL INSTALLATION & COMMISSIONING.

B) BANK CHARGES ON LC/SD (WITHIN INDIA APPLICANT ACCOUNT AND OUTSIDE INDIA TO BENEFICIARY ACCOUNT).

**PAYMENT TERMS FOR INDIAN FIRMS**

A) 100% PAYMENT THROUGH CROSSED ACCOUNT PAYEE CHEQUE / ELECTRONIC TRANSFER AFTER RECEIPT OF STORE IN GOOD ORDER & CONDITION AND SUCCESSFUL INSTALLATION & COMMISSIONING.

B) ENSURE MENTIONING

i) BANK DETAILS OF THE BENEFICIARY, GST NO. AND PAN NUMBER

ii) FULL NAME AND ADDRESS OF THE BENEFICIARY ON WHOM ORDER HAS TO BE PLACED

10. WHETHER ANY EXPORT LICENCE IS REQUIRED FROM YOUR GOVERNMENT, IF SO, PLEASE CONFIRM WITH DETAILS.

11. COUNTRY OF ORIGIN OF THE GOODS IS TO BE MENTIONED.

12. THE INSTITUTE SHALL PROVIDE THE CONCESSIONAL CUSTOMS DUTY AND EXCISE DUTY EXEMPTION CERTIFICATE AS PER GOVT. NOTIFICATION NO. 51/96 CUSTOMS DATED: 23.07.1996 AND CENTRAL EXCISE DUTY EXEMPTION IN TERMS OF GOVT. NOTIFICATION NO. 10/97 – CENTRAL EXCISE DATED: 01.03.1997 AS AMENDED FROM TIME TO TIME.

13. **LIQUIDATED DAMAGES:** THE STORES SHOULD BE DELIVERED / DISPATCHED TO DESTINATION AND READY FOR OPERATION NOT LATER THAN THE DELIVERY DATE SPECIFIED. IF THE SUPPLIER FAILS TO DELIVER ANY OR ALL THE STORES OR PERFORM THE SERVICE BY THE SPECIFIED DATE, LIQUIDATED DAMAGES AT 1% PER MONTH OR PART THEREOF IN RESPECT OF THE VALUE OF STORES WILL BE DEDUCTED FROM THE CONTRACT PRICE SUBJECT TO A MAXIMUM OF 5%. ALTERNATIVELY, THE ORDER WILL BE CANCELLED AND THE UNDELIVERED STORES PURCHASED FROM ELSEWHERE AT THE RISK AND EXPENSE OF SUPPLIER.

14. **PATENT RIGHTS:** THE SUPPLIER SHALL INDEMNIFY THE PURCHASE AGAINST ALL THIRD PARTY CLAIMS OF INFRINGEMENT OF PATENT, TRADEMARK OR INDUSTRIAL DESIGN RIGHTS ARISING FROM USE OF THE GOODS OR ANY PART THEREOF IN INDIA.

15. ONLY THOSE BIDDERS WHO'S BIDS HAVE BEEN TECHNICALLY FOUND ACCEPTABLE WILL ONLY BE INVITED FOR PARTICIPATION IN THE PRICE BID.

16. THOSE BIDDERS WHO DO NOT RECEIVE ANY COMMUNICATION FOR PARTICIPATION IN PRICE BID OPENING MEETING MAY PRESUME THAT THEIR BID HAS NOT BEEN ACCEPTED BY THE INSTITUTE.

17. CONDITIONAL OFFER WILL NOT BE ACCEPTED.

18. LATE TENDERS I.E. TENDER RECEIVED AFTER THE DUE DATE AND TIME OF SUBMISSION AS MENTIONED ABOVE SHALL NOT BE ACCEPTED.

19. BIDDERS TO ENCLOSE THE FOLLOWING DOCUMENTS:-

A) CURRENT INCOME TAX AND SALES TAX CLEARANCE CERTIFICATES (GST No.), AND PAN NO.

B) BANKER'S SOLVENCY CERTIFICATE

C) SUMMARY OF AUDITED STATEMENT OF ACCOUNTS FOR THE LAST THREE YEARS TO BE ENCLOSED AND FINANCIAL HIGHLIGHTS AND THE KEY PERFORMANCE DURING THE LAST THREE QUARTERS TO BE ENCLOSED AS PER FORMAT:-

COMPANY'S KEY PERFORMANCE

| DESCRIPTION        | JAN. TO MARCH | APRIL TO JUNE | JULY TO SEP | OCT TO DEC |
|--------------------|---------------|---------------|-------------|------------|
| GROSS REVENUE      |               |               |             |            |
| PROFIT BEFORE TAX  |               |               |             |            |
| PROFIT AFTER TAX   |               |               |             |            |
| RETURN ON INVESTED |               |               |             |            |
| CAPITAL (ROIC)     |               |               |             |            |

D) CUSTOMER SATISFACTION CERTIFICATE FROM ONE SUCH ORGANIZATION IS TO BE ATTACHED WITH THE TECHNICAL BID AND PRICE BID.

E) NAME AND ADDRESS OF MINIMUM THREE CLIENTS TO WHOM SUCH EQUIPMENT HAVE BEEN SUPPLIED SHOULD BE MENTIONED.

20. **WARRANTY / GUARANTEE:** THIS COMPREHENSIVE WARRANTY / GUARANTEE SHALL REMAIN VALID FOR 36 MONTHS AFTER THE GOODS (OR ANY PORTION THEREOF AS THE CASE MAY BE) HAVE BEEN DELIVERED AND COMMISSIONED TO THE FINAL DESTINATION.

21. THE INSTITUTE DOES NOT BIND ITSELF TO OFFER ANY EXPLANATION TO THOSE BIDDERS WHO'S TECHNICAL BID HAS NOT BEEN FOUND ACCEPTABLE BY THE EVALUATION COMMITTEE OF THE INSTITUTE.

22. ALL TENDERS (UNLESS OTHERWISE SPECIFIED) ARE TO BE SUBMITTED / HANDED OVER TO **DR. VIKRANTH RACHERLA, ASSOCIATE PROFESSOR, MECHANICAL ENGINEERING, INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR - 721 302** AND ACKNOWLEDGEMENT TO BE OBTAINED.

## IMPORTANT

1. IIT Kharagpur authority may accept or reject any or all the bids in part or in full without assigning any reason and does not bind itself to accept the lowest bid. The Institute at its discretion may change the quantity / upgrade the criteria / drop any item or part thereof at any time before placing the Purchase Order.
2. Promptly make arrangements for repair and / or replacement of any damaged item (s) irrespective of settlement of claim.
3. In case of any dispute, the decision of the Institute authority shall be final and binding on the bidders.
4. For any query pertaining to this bid document correspondence may be addressed to **Dr. Vikranth Racherla, Associate Professor** at the address mentioned above.

### LAST DATE FOR SUBMISSION OF SEALED BIDS: 21.12.2017

- 1) Please Note that the Institute remains closed during Saturdays & Sundays and all specified government holidays.
  - 2) Fax, e-mail Tender will not be accepted.
  - 3) The General Terms and Conditions as stated above relate to supply of stores / equipment /assets etc. and for specific service other terms and conditions of the Institute will apply.
-