

# BHARAT HEAVY ELECTRICALS LIMITED, JHANSI

|                   |               |
|-------------------|---------------|
| Specification No. | 11000         |
| Item No.          | LE/1/4/6400-3 |
| Location          | TOWNSHIP      |
| Quantity          | FOUR No.      |

## SCOPE :

### DESIGN, MANUFACTURING, TESTING, SUPPLY INSTALLATION AND COMMISSIONING OF BOOM BARRIER

## NOTE :


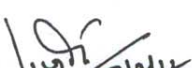



- VENDOR must submit complete information against clause No 8.0 ( Qualifying condition). The offer meeting this clause would only be processed.
- The " offered" Column and where applicable, the " Deviations" Column of this format shall be filled in by the Vender and submitted along with the offer. Technical details also submitted with the offer. Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the specification / requirements shall be treated as non - compliance.
- The offer and all documents enclosed with offer should be in English language only.

### SPECIFICATION CUM COMPLIANCE CERTIFICATE OF RECTIFIER DEVICE FOR

| S.NO.    | DESCRIPTION FOR BHEL REQUIREMENT  | OFFER             | Deviation |
|----------|---|-------------------|-----------|
| <b>1</b> | <b>PURPOSE</b>  |                   |           |
| 1.1      | Automatic Electro mechanical Boom barrier is required for town ship area.   | VENDER TO CONFIRM |           |
| <b>2</b> | <b>WORK PIECE MATERIAL</b>  |                   |           |
| 2.1      | <b>Supply, installation and commissioning</b> of Automatic Electro mechanical Boom barrier system. Boom length : 6 mtr. Type: twin barrier(3 mtr each) with optical beam sensor/loop detector, provision to operated simultaneously from both side as well as separately ,with remote control(for out door use).<br><b>Quantity - 2 Nos</b> | VENDER TO CONFIRM |           |
| 2.2      | <b>Supply, installation and commissioning</b> of Automatic Electro mechanical Boom barrier with boom rest system. Boom length : 4 meter. Type :single barrier with optical beam sensor/loop detector, with remote control(for out door use).<br><b>Quantity - 2 Nos</b>   | VENDER TO CONFIRM |           |
| <b>3</b> | <b>TECHNICAL DETAILS for: 6 meter. Type:Twin Barrier (3 meter each) However, actual dimensions are required to be checked by supplier</b>   | VENDER TO CONFIRM |           |
| 3.1      | Boom Barrier length : 6 meter. Type: twin barrier(3 meter each)   | VENDER TO CONFIRM |           |
| 3.2      | Boom Height from ground - 900 mm(+/- 100 mm)  | VENDER TO SPECIFY |           |
| 3.3      | Opening /closeing time for 90 degree 2-6 sec(approx) adjustable   | VENDER TO CONFIRM |           |
| 3.4      | Operating voltage 230V.A.C.. 50 Hz single phase supply  | VENDER TO CONFIRM |           |
| 3.5      | Motor power supply and motor power rating   | VENDER TO SPECIFY |           |
| 3.6      | Control unit micro processer/plc based  | VENDER TO CONFIRM |           |
| 3.7      | Duty cycle 100% (intensive use)   | VENDER TO CONFIRM |           |
| 3.8      | Operating temp. 05-55°C   | VENDER TO CONFIRM |           |
| 3.9      | Boom is made from aluminum bar with red adhesive Strip for bar having section of min 60*40 mm   | VENDER TO CONFIRM |           |
| 3.10     | Housing of control unit should be water proof with IP 54 protection and easy for maintenance  | VENDER TO CONFIRM |           |
| 3.11     | Smooth operation of boom during open and closing without bounce/jerk at end position  | VENDER TO CONFIRM |           |
|          | Safety embedded controller for detection of presence of vehicle   |                   |           |



|      |  |                   |  |  |
|------|--|-------------------|--|--|
| 3.12 | on safety loop   | VENDER TO CONFIRM |  |  |
| 3.13 | On power failure barrier can be raised or lower by releasing the boom lock key type mechanism  | VENDER TO CONFIRM |  |  |
| 3.14 | Compliance should be CE standard (certificate required should be submitted with the offer.)  | VENDER TO SPECIFY |  |  |
| 3.15 | Offered Model  | VENDER TO SPECIFY |  |  |
| 3.16 | Detailed catalogue/Sketch  | VENDER TO SUBMIT  |  |  |
| 4    | <b>TECHNICAL DETAILS for: 4 meter. Type:single barrier</b><br><b>However, actual dimensions are required to be checked by supplier</b>   | VENDER TO CONFIRM |  |  |
| 4.1  | Boom Barrier length : 4 meter. Type: single barrier  | VENDER TO CONFIRM |  |  |
| 4.2  | Boom Height from ground - 900 mm(+/-100mm)   | VENDER TO SPECIFY |  |  |
| 4.3  | Opening /closing time for 90 degree 2-6(approx) sec adjustable   | VENDER TO CONFIRM |  |  |
| 4.4  | Operating voltage 230 V A.C.. 50 Hz single phase supply  | VENDER TO CONFIRM |  |  |
| 4.5  | Motor power supply and Motor power rating  | VENDER TO SPECIFY |  |  |
| 4.6  | Control unit should be micro processer/plc based   | VENDER TO CONFIRM |  |  |
| 4.7  | Duty cycle 100% (intensive use)  | VENDER TO CONFIRM |  |  |
| 4.8  | Operating temp. 05-55 °C   | VENDER TO CONFIRM |  |  |
| 4.9  | Boom is made from aluminum bar with red adhesive Strip for bar having section of min 60*40 mm  | VENDER TO CONFIRM |  |  |
| 4.10 | Housing of control unit should be water proof with IP 54 protection and easy for maintenance   | VENDER TO CONFIRM |  |  |
| 4.11 | Smooth operation of boom during open and closing without bounce/jerk at end position   | VENDER TO CONFIRM |  |  |
| 4.12 | Safety embedded controller for detection of presence of vehicle on safety loop   | VENDER TO CONFIRM |  |  |
| 4.13 | On power failure barrier can be raised or lower by releasing the boom lock key type mechanism  | VENDER TO CONFIRM |  |  |
| 4.14 | Compliance should be CE standard (certificate required should be submitted with the offer.)  | VENDER TO CONFIRM |  |  |
| 4.15 | Offered Model  | VENDER TO SPECIFY |  |  |
| 4.16 | Detailed catalogue/Sketch  | VENDER TO SUBMIT  |  |  |
| 5    | <b>MISCELANIOUS</b>  |                   |  |  |
| 5.1  | The offer should be complete with dimensional details/ technical write up explaining special features.   | VENDER TO CONFIRM |  |  |
| 5.2  | Detailed catalogues, sketch/ photograph of the system and accessories/attachments should be submitted with the offer.  | VENDER TO CONFIRM |  |  |
| 5.3  | required civil work will be in the scope of BHEL JHANSI.The drawing and design of foundation work will be provided by supplier.  | VENDER TO CONFIRM |  |  |
| 6.0  | <b>INSTALLATION,ERECTION &amp; COMMISSIONING</b>   |                   |  |  |
| 6.1  | Vender to take full responsibility for Supply, installation,erection, start up,.testing of system, & all type of other supplied accesesaries and commissioning of Automatic Electro mechanical Boom barrie | VENDER TO CONFIRM |  |  |
| 7    | <b>GURANTEEE</b>   |                   |  |  |
| 7.1  | The barriers shall be guaranteed for trouble free performancefor a period of 24 month from the date of commissioning.  | VENDER TO CONFIRM |  |  |
| 7.2  | comprehensive AMC option after expiry of gurantee for next years   | VENDER TO CONFIRM |  |  |
| 8    | <b>INSPECTION AND TRAINIMNG</b>  |                   |  |  |

|   |  |                   |  |  |
|---|--|-------------------|--|--|
| 8.1   | The system will be inspected at supplier's work and performance as per parameter shall be cheked. Training for operation shall be given by supplier's at BHEL works.   | VENDER TO CONFIRM |  |  |
| 8.0   | <b>QUALIFYING CONDITION</b>  |                   |  |  |
| 8.1   | Only those venders should quote A.who is having atleast 05 year of exp. in same field ( on the date of opening of tender).<br>B.who have supplied and commissioned at least 20 Numbers of boom barrier in the past FIVE years. ( on the date of opening of tender)<br>C.performance certificate of atleast 4 no. of such system is presently working satisfactrily for more than one year after commissioning.The information is to be submitted by the vender about the companies to whom similar system have been supplied. This is required from all the venders for qualification of their offers. ( on the date of opening of tender) | VENDER TO SUBMIT  |  |  |
| 8.2   | Name of the customer / company where similar door is installed. (copy of purchase order to be furnished)   | VENDER TO SUBMIT  |  |  |
| 8.3   | Complete postal address of the customer.   | VENDER TO SUBMIT  |  |  |
| 8.4   | Year of suppling / commissioning.  | VENDER TO SUBMIT  |  |  |
| 8.5   | Name and designation of the contact person of the customer.  | VENDER TO SUBMIT  |  |  |
| 8.6   | Phone. FAX, no and E-mail address of the contact person of the customer.   | VENDER TO SUBMIT  |  |  |
| 9.0   | <b>BHEL reserves the right to verify information submitted by vender. In case the information is found to be false/ incorrect, the offer shall be rejected.</b>  | Vender to confirm |  |  |
| <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;"> <br/>             (एस.जी. चक्रवर्ती)<br/>             वरिष्ठ उप महाप्रबन्धक<br/>             कार्य प्रणाली, प्रका एवं सेवा<br/>             बी.एच.ई.एल., झारखी           </div> <div style="text-align: center;"> <br/>             R.K. SRIVASTAVA<br/>             DGM. (FCX&amp;TCX)           </div> <div style="text-align: center;"> <br/>             A.K. Shivpuri<br/>             Sr.Mgr(WEX)           </div> <div style="text-align: center;"> <br/>             Arjun Singh<br/>             Mgr. (WEX)           </div> <div style="text-align: center;"> <br/>             Y.K Dhingra<br/>             Sr. Engr.(WEX)           </div> </div> |  |                   |  |  |