

# BHARAT HEAVY ELECTRICAL LIMITED, JHANSI

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|-------------------|-------------|
| Specification No. | 7191        |
| Item No.          | ME-1/3/2741 |
| Location          | LOCO        |
| QUANTITY          | 01 SET      |
| SCOPE :           |             |

## DESIGN,SUPPLY, INSTALLATION & COMMISSIONING OF LOGIC BOXES AS PER SPECIFICIFICATION No. (CLW/ES/3/CLW/ES/3/0538 Alt.A)

|       |                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NOTE: | 1. VENDOR must submit complete information against clause No. 9.0 (Qualifying condition). The offer meeting would only be processed.                                                                                                                                                                                                                                                                           |
|       | 2. The " offered" Column and where applicable, the " Deviations" Column of this format shall be filled in by the Vender and to be submitted along with the offer. Technical details are also required to be submitted along with the offer . Inadequate / incomplete, ambiguous/ unsustainable information against any of the clauses of the specification / requirements shall be treated as non - Compliance |
|       | 3. The offer and all documents enclosed with offer should be in English language only.                                                                                                                                                                                                                                                                                                                         |

## DESIGN,SUPPLY, INSTALLATION & COMMISSIONING OF LOGIC BOXES AS PER SPECIFICIFICATION No. (CLW/ES/3/CLW/ES/3/0538 Alt.A)

| S.NO. | DESCRIPTION FOR BHEL REQUIREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SPECIFY /CONFIRM BY VENDOR | OFFERED | DEVIATONS |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------|-----------|
|       | <b>PURPOSE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |         |           |
|       | Logic Box. is required for the testing of 03 phase Electric Locomotive WAG-9, TROUBLE SHOOTING OF COUPLERS CIRCUITS                                                                                                                                                                                                                                                                                                                                                                                                                                        | VENDOR TO CONFIRM          |         |           |
| 2     | <b>WORK PIECE MATERIAL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |         |           |
|       | BHEL,JHANSI is going to manufacture electric locomotives employing 3-phase propulsion based on the IGBT technology with microprocessor based control system in 3-phase locomotives WAG9. The scope of the specification is to procure one set of Logic Boxes.<br><b>Quantity - 01 Set.</b><br>01 Set Contains following items<br>(Size of Boxes should be as per specification No. (CLW/ES/3/CLW/ES/3/0538 Alt.A) )(enclosed)<br>I. Logic Box for SB1 & SB2 ---- 08 No.<br>II. Logic Box for BUR-1 ---- 01 No.<br>III. Logic Box for BUR-2 & 3 ---- 01 No. | VENDOR TO CONFIRM          |         |           |
| 3     | <b>TECHNICAL. DETAILS OF Logic BOXES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                            |         |           |
|       | Technical specification of Logic boxes should be as per specification of CLW/ES/3/CLW/ES/3/0538 Alt.A.(enclosed)<br>Issued by Dy. Chief Electrical Engineer/cont/tu-II,centre for design and development, Chittaranjan locomotive works(enclosed)                                                                                                                                                                                                                                                                                                          | VENDOR TO CONFIRM          |         |           |
| 4     | <b>Testing ,Installation &amp; Commissioning</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |         |           |
|       | Vender to take full responsibility for carving out the installation start up,testing of Logic Box.,<br>Testing ,Installation &Commissioning of logic boxes to be done as per CLW approved test protocol (clause no- 4 of attached CLW spec -0538) at BHEL, Jhansi works and shall be witnessed by BHEL .                                                                                                                                                                                                                                                   | VENDOR TO CONFIRM          |         |           |
| 5     | <b>INSPECTION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |         |           |
|       | Pre dispatch Inspection shall be carried out at Vendor works by BHEL or BHEL nominated agencies as per specification.                                                                                                                                                                                                                                                                                                                                                                                                                                      | VENDOR TO CONFIRM          |         |           |
| 6     | <b>DOCUMENTATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |         |           |

Asman

Jon

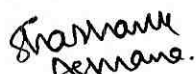
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Centra Savary

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**GN,SUPPLY, INSTALLATION & COMMISSIONING OF LOGIC BOXES AS PER SPECIFICIFICATION No. W/ES/3/CLW/ES/3/0538 Alt.A)**

|     |                                                                                                                                                                                                                                                                                                                                         |                            |  |  |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--|--|
| 6.1 | Three sets of Catalogues, maintenance manual, operation manual of m/c, Electrical diagram/circuit. Spares - part list ,concerned drawing of spares including all bought out items .(WITH SUPPLY OF Logic Box)                                                                                                                           | VENDOR TO CONFIRM          |  |  |
| 6.2 | Detailed catalogues, sketch/ photograph of theLogic Box. and accessories/attachments should be submitted with the offer.                                                                                                                                                                                                                | VENDOR TO SUBMIT           |  |  |
| 7   | <b>Guarantee</b>                                                                                                                                                                                                                                                                                                                        |                            |  |  |
|     | The Logic Boxes shall be guaranteed for trouble free performance for a period of 24 month from the date of commissioning/acceptance.                                                                                                                                                                                                    | VENDOR TO CONFIRM          |  |  |
| 8   | <b>TRAINING</b>                                                                                                                                                                                                                                                                                                                         |                            |  |  |
|     | Satisfactory Training to operator and maintenance staff at the time of commissioning of the equipment..                                                                                                                                                                                                                                 | VENDOR TO CONFIRM          |  |  |
| 9   | <b>QUALIFYING CONDITION</b>                                                                                                                                                                                                                                                                                                             |                            |  |  |
|     | Only those vendors who have supplied & commissioned at least 1 set of Logic boxes system successfully in last 5 years (from the date of opening of this tender/ enquiry) to Indian Railways should quote . Documentary evidence for successful commissioning / performance and copy of purchase order to be furnished along with offer. | VENDOR TO CONFIRM & Submit |  |  |
| 10  | <b>BHEL reserves the right to verify information submitted by vendor. In case the information is found to be false / incorrect, the offer shall be rejected.</b>                                                                                                                                                                        | VENDOR TO CONFIRM          |  |  |

  
S.Asthana  
Dy.Mgr.(LMM)

  
Y.K.Dhingra  
Dy.Mgr.(WEX)

  
Pawan Kumar  
Sr.Mgr(WEX)

  
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D.G.M(LME)