

**BHARAT HEAVY ELECTRICALS LIMITED, JHANSI**  
**TECHNICAL SPECIFICATION OF ELEVATING PLATFORM (SELF PROPELLED SCISSOR LIFT)**

REF. NO. : DEBOTTLENECKING-CAPITAL/SPECS/2018-19/17 REV.01 DATE: 18.05.19

**Note:**

- i) Vendor must submit complete information against qualifying conditions. The offer meeting this clause would only be processed.
- ii) The 'Vendor to specify' column of the format shall be filled by vendor and submit along with the offer. The technical details also submitted with the offer. Inadequate/incomplete, ambiguous information against any of the clause of the specification/requirement shall be treated as non Compliance.
- iii) The offer and all documents enclosed with offer should be in English language only.

Design, manufacturing, supply, Erection & commissioning of Elevating platform as per Specification below...

| Sl. No. | Description                                                                                                                                                                                                                                                              | Vendor to Specify                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | <b>Purpose:</b><br>Mechanized Service platform & Elevating platform i.e. Self propelled Scissor lift should suitable for making connections with High voltage bushing at different heights during testing of Power transformer & Special transformer up to 400 kV class. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|         | <b>1.1: Platform:</b>                                                                                                                                                                                                                                                    | 1.1.1: Platform should have capacity to carry minimum Four persons<br>1.1.2: Platform shall always remain horizontal with proper hand railing for safety<br>1.1.3: Platform should be capable for extending on both front and rear sides                                                                                                                                                                                                                                                      |
|         | <b>1.2: Infrastructure (base of the Elevator)</b>                                                                                                                                                                                                                        | 1.2.1: Stay guides for rigidity and stability to support platform if applicable<br>1.2.2: All equipments like hydraulic power pack electrical control equipments should be fixed on the infrastructures.<br>1.2.3: Panel with parallel controls should be provided on infrastructures where the movement of the platform can be controlled.<br>1.2.4: Manual controls shall provided at ground level.<br>1.2.5: Jacks/out riggers fitted on all four corners of infrastructures, if required. |
|         | <b>1.3: Drive &amp; Control</b>                                                                                                                                                                                                                                          | 1.3.1: Motorized<br>1.3.2: Wheel - four<br>1.3.3: Type- Proportional<br>1.3.4: Moving should be done through pneumatic solid tyres/ Foam filled rough terrain.<br>1.3.5: Steering arrangement alongwith brakes to manoeuvre the movement.                                                                                                                                                                                                                                                     |

(Sriashank Dubey)

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|   |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
|---|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 2 | General Descriptions | <p>Elevating platform (Self-propelled Scissor Lift)</p> <p>2.1: Working Height – 18.15 Mt. (+/- 1 Mtr.)</p> <p>2.2: Elevating Platform Height-16.15 Mt (+/- 1 Mtr.)</p> <p>Mechanized Service platform.</p> <p>2.3: Height Stowed- 3.5 Mtr. (Max.)</p> <p>2.4: Length Stowed – 5.0 Mt. (Max.)</p> <p>2.5: Width- 2.5 Mtr.(Max.)</p> <p>2.6: Provision of Extension desk – 1.0 Mt. (Min)</p>                                                          |  |
| 3 | Capacity:            | <p>3.1: Lift capacity– 680 Kg (min)</p> <p>3.2: Lift capacity- Extension desk-200 kg (Min.)</p> <p>3.3: Drive speed-stowed-3.5 km/h.(Min)</p> <p>3.4: Drive speed-raised-- Vendor to specify</p>                                                                                                                                                                                                                                                     |  |
| 4 | Power Source:        | <p>4.1: Diesel Engine Driven for moving/operation of Elevating platform</p> <p>4.2: Fuel Tank capacity – 100 Lt apx.</p> <p>4.3: Power Source</p> <p>4.4: Auxiliary Power Unit</p> <p>4.5: Noise level</p> <p>4.6: Pollution certificate (vendor to confirm to submit the certificate along with supply)</p>                                                                                                                                         |  |
| 5 | Safety Arrangements  | <p>5.1: System should have adequate and reliable safety interlocks / devices to avoid damage to the system, work piece and the operator due to the malfunctioning or mistakes. It should comply with applicable safety Standards with the latest revision.</p> <p>5.2: All electronic parts should be housed in shielded enclosures.</p> <p>5.3: Safety features of the platform corresponding to applicable standards with the latest revision.</p> |  |
| 6 | Standard Accessories | All necessary power and control cables / leads for smooth operation for Elevating platform will supplied with system.                                                                                                                                                                                                                                                                                                                                |  |
| 7 | Spares               | <p>7.1: Confirmation on availability of all necessary spares for five years' trouble-free operation of supplied equipment.</p> <p>7.2: Vendor to furnish list of accessories if any.</p>                                                                                                                                                                                                                                                             |  |

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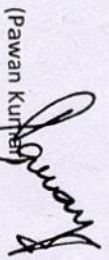
(Satish Sonil)

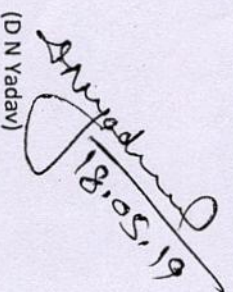
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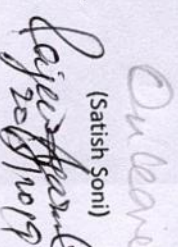
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|----|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 8  | Environmental conditions:          | 8.1: Total system including all supplied items should work trouble free and efficiently at Ambient/Operating Temperature: 0 C to 50 C.<br>8.2: If any safety /environmental protection enclosure is required it should be built in the system by the vendor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| 9  | Documents:                         | 9.1: Two sets of Operating, Instruction, Maintenance manuals & spare part list along with circuit diagrams and schematics in English language<br>9.2: Test and Guarantee Certificate<br>9.3: Conformance certificate for safety standards.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| 10 | Warranty Certificate & Acceptance: | The warranty of the equipment should be 24 Months from the date of successful commissioning at BHEL works.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| 11 | Qualifying Conditions:             | 11.1: Only OEM or their authorized vendor who has supplied at least 05 Nos' of elevating platform having similar capacity as specified in specification point no. 2.1, 2.2 & 3.1 or higher capacity in last 10 years from the date of tender opening can participate in the tender.<br>11.2: Following documents are required to be submitted along with the offer.<br>11.2.1: Reference list of customers mentioning the customer name, contact details and year of supply. Copy of Purchase Order ( with details-contact name, address, contact number & e-mail ID of the users etc.) of 5 Nos. equipment as referred in clause 11.1.<br>11.2.2: Performance certificates of at least 2 Nos. of the equipment as referred in clause 11.1, certifying 1 year or more of satisfactory performance. Performance certificate and purchase order issued by the user in the name of OEM or Authorised dealer of OEM are acceptable. |  |
| 12 | Inspection at Supplier works:      | During inspection parameters like height, displacement of platform, load capacity and other parameters as desired in Sl. No. 02 to 05 will be verified before dispatch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |

  
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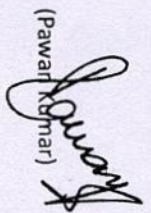
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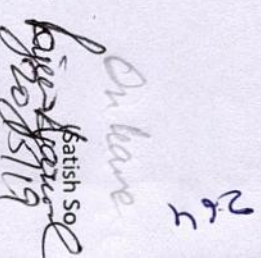
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|----|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 13 | Training                                                | BHEL testing engineer & maintenance person should be trained at BHEL works in the area of<br>i) Use of system features, programming for monitoring system and supplied accessories etc.<br>ii) Electrical, Electronics & Maintenance for system & other supplied equipments.                                                                                      |  |
| 14 | Packing                                                 | Air worthy/sea worthy & rigid packing for all items of complete system, all accessories and other supplied items to be included for above type of packing.<br>15.1: Erection & Commissioning of the equipment and its operation at BHEL work by supplier's representative. Equipment shall be acceptable only after successful commissioning.                     |  |
| 15 | Erection, Commissioning & Acceptance:                   | 15.2: Demonstration of all features of the Elevating platform system & all accessories to the satisfaction of BHEL for their operational use.<br>15.3: Schedule of Erection and commissioning shall be submitted with the offer.<br>15.4: Charges, duration, terms & conditions for E&C should be furnished in details separately by vendor along with the offer. |  |
| 16 | Technical catalog is required along with technical bid. |                                                                                                                                                                                                                                                                                                                                                                   |  |

**Note: Supplier should submit technical compliance/comments against each of the above points in above format. Technical bid without complete technical compliance sheet will not be considered for technical evaluation.**

  
 13/5/19  
 (Shashank Dubey)

  
 (Pawar Kumar)

  
 16.5.19  
 (D N Yadav)

  
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 16/5/19  
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