

Technical SpecificationSTT-0072Hydraulic Scissor platform

1. **Purpose:** Hydraulic platform is required during the shrink fitting of rotor disc on shaft Of Russian design.

2. **Broad Specification:-**

- | | |
|--------------------------------------|---------------------|
| a. Capacity | : 500 KG |
| b. Lift height from the ground level | : 3500mm to 4000mm |
| c. Closed height from ground level | : upto 700 mm |
| d. Length of top platform | : 1000 mm (minimum) |
| e. Width of top platform | : 1000 mm (minimum) |
| f. Height of the railing | : 900 mm to 1000mm |

3. **Essential requirements :-**

- a. Hydraulic platform should move up & down by electrically operated hydraulic unit.
- b. Platform should have 2 nos of hydraulic cylinders.
- c. Limit switch to be provided to cut off the electric power at its maximum & minimum lift.
- d. Mechanical stopper should be provided to stop the lifting in failure of limit switch.
- e. Provision should be provided to stop accident in lifted position in failure of hose pipe.
- f. Interlocking of control panel with platform panel should be provided.
- g. Hoses used in hydraulic unit should withstand pressure of 400kg/cm². Vendor to specify the type of hoses used.
- h. Platform should be provided with railing for safety at all the four sides.
- i. Pendant push button should be provided on the platform.
- j. Safety latches 2 nos should be provided on moving platform.
- k. Power supply cable of 20 meters length of suitable rating should be provided for connection of machine to the main supply
- l. Motor should be of reputed make like Siemens, ABB, Crompton Greaves & Kirloskar.

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P.C. SINHA
Dy. Mgr. (WER)

- m. Pump & valve should be of reputed make like Rexroth, Parkar, Yuken & Hawe.
 - n. There should be provision to lower the platform in case of power failure.
 - o. Control voltage in control panel should be 110V AC.
 - p. Platform should be rigid to bear the load of 500 KG.
 - q. platform should be topple free at its maximum height.
 - r. Operator pendent must be of 24V AC/DC.
 - s. Focus light with flexible cable of 1.5 meter approx.. to be mounted on the platform.
 - t. Lifting platform should be of fix type. Provision for grouting the base trolley on the floor to be provided. Suitable foundation bolt to be provided by vendor along with scissor platform.
- Sketch for ready reference is attached at annexure-1.

4. Power Supply :-

400V +/- 5 %, 50 Hz, 3 phase without neutral.

5. Essential spares:-

- a. Pump : 1 no
- b. Valve : 1 no
- d. Filters (Suction) : 5 Nos
- e. Hose : 2 nos
- f. Seal kit(piston+ cylinder) : 1 set
- g. Push Button : 2 nos
- h. Limit Switch : 2 Nos
- i. Transformer : 1 nos

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MATERIALS

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6. Guarantee :-

Vendor to give guarantee of 12 months from the date of successful commissioning of the Platform.

7. Documents :-

Vendor to give 5 copies of operation & maintenance manuals along with the supply.

8. Colour:- Apple green**9. PDI(Pre Dispatch Inspection):-**

Pre dispatch inspection of the platform will be done by BHEL at vendor work to ensure the specification compliance. However, PDI will be at the discretion of BHEL. Vendor to give PDI call at least 15 days in advance to BHEL.

10. Commissioning:-

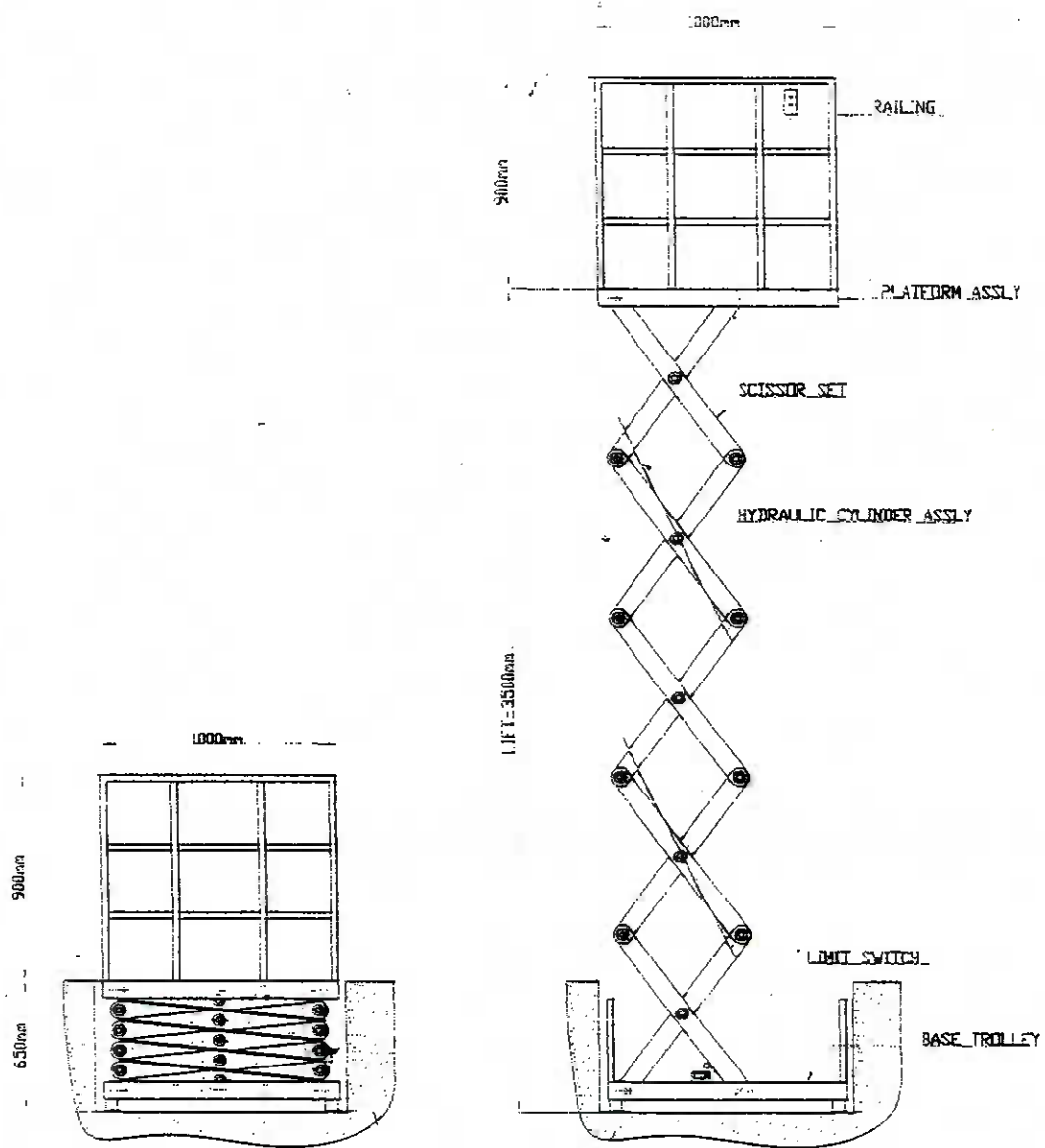
Commissioning of the platform to be done by vendor at BHEL, Haridwar. Final acceptance of the platform shall be made by BHEL after its successful demonstration of function by vendor.

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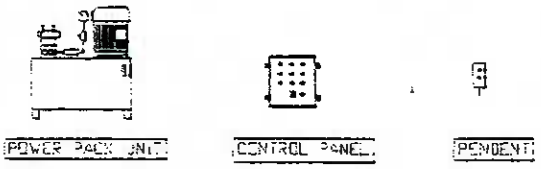
Annexure-1



NOT OF REQUIRED

CLOSED POSITION

ELEVATED POSITION



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St. Eng/TX

Alkshay
Krishna

M. V. S.