

**SPECIFICATION FOR PASSENGERS LIFT  
INTEGRATED OFFICE COMPLEX OF BHEL AT PALLIKARANAI, CHENNAI**

Technical Specification

1. Type of Lift: i) 16 Persons (Capacity 1088 Kgs) / Passengers lift / Machine room less (2 Nos)
2. No. of Lift: 2
3. Speed range :1.6 –1.75 m/s
4. No. of floors served: 9 (Basement + Stilt + 7 floors)
5. Travel: Minimum 30 Mtrs
6. Stops and opening: Nine stops & Nine openings (all openings are on the Front side)
7. Power Supply: AC 415V 3 Phase
8. Control: Selective collective
9. Drive: Microprocessor based V3F/VF Regenerative or advanced system
10. Well size width & Depth in mm: i) 2200X2500      ii) 1800X2000
11. Lift Pit Depth :1800mm
12. Car Design:
  - i). 16 Persons Lift: Both side: Stainless steel, Hairline finish, Front & Back: Glass – SS enveloped Hair line finish.
- False ceiling & Hand rails: Stainless steel, Hairline finish.
13. Flooring: Granite Flooring (BHEL Scope). Recess to be provided by Vendor
14. Lighting: LED light, emergency light working on battery to operate in the event of Power failure
15. Ventilation: Fan with suitable safety louvers
16. Car operation Panel: Integral full height car operating panel with luminous/braille buttons, digital car position indicator combined with direction arrows, overload warning indicator, Door open/close buttons
17. Car Door: Automatic center opening, sliding Glass Door SS enveloped hair line finish with door reopening device (for automatic opening of door in the event of a passenger being struck or about to be struck)
18. Car Roof: The car roof shall be solid type and capable of supporting a weight of at least two persons (approx. 140 kg) without causing permanent deformation.
19. Battery operated automatic rescue device in the event of power failure and single phase condition to bring the car to the nearest floor shall be provided. Supply of batteries lies in the scope of bidder.
20. Lift announcing system including floor announcement (voice), Emergency announcement designed with reliable solid state system from Car to centralized control room thro' intercom. CCTV wiring from car to outside location of customer convenient floor.
21. Lift Must Comply to the IS-14665 for relevant sections.
22. Combined luminous hall button and digital hall position indicators at all floors.
23. Both 16 Passengers lifts are to be located front side of office building adjacent to one and other. Hence common hall buttons with digital hall position & lift number indicators at all floors shall be considered. common selective & collective control for both lifts.

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24. Battery operated alarm bell.
25. Fire man switch at the ground lobby
26. Attendant Operation: lift shall be provided with attendant control facilities. A key switch for change of operation mode shall be provided in a lockable recess panel on the car operation panel. After gaining control on the lift, the attendant can direct the car to stop at any storey. The attendant can also by pass the landing calls (but not cancel them) or reverse the direction of travelling.
27. Automatic By-pass Load weighing device located either on car top or under the car cage shall provide for all lifts. Whenever the load exceeds 70-80% of the capacity load of the lifts, the lifts shall ignore all landing calls and only respond to car calls.
28. Emergency landing door unlocking devices and key: Every landing door shall be provided with an emergency landing door unlocking device. When operated by an authorized person with the aid of a key to fit the unlocking triangle, the landing door shall be unlocked irrespective of the position of the lift car for rescue purpose. When there is no "unlocking" action, the key shall only be able to stay in the locked position.
29. Free maintenance service for 1 year after handing over of Lifts.

**Related works:**

1. All the related items like drive/motor, guide rails, wiring between the machine & car including the communication/ telephone cable are in the scope of supplier.
2. The bidder shall carry out all performance tests after installation as per specification.
3. BHEL PSSR shall provide 1 no. power point of 3 Phase 415 V, 50Hz, of the required rating at a convenient location. The balance electrical works like cabling from this switch to the controller etc. is in the scope of supplier.
4. Obtaining necessary approvals/ permissions/ license from and liaising with all the concerned statutory bodies is in the scope of the supplier. However, any statutory fee payable will be borne by BHEL-PSSR
5. All minor civil works like chipping up to 25 mm(approx.), anchor fastening of the equipment and accessories to the civil structure is in the scope of supplier.
6. Shaft lighting and pit ladder supply and installations are in the scope of supplier.
7. Scaffolding inside elevator shaft / pit, ladders, planks etc. for carrying out installation work is in the scope of supplier. Works like unloading, storing, and shifting of materials within site (including to height) for the purpose of installation of lift is in the scope of supplier.
8. BHEL shall not provide any T & P for the installation of the lift.

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**Scope:**

**Scope of supply (Bid price to include all cost components) : Supply Installation Testing Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any)**

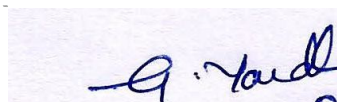
**Payment Terms:**

1. 80% on supply of equipment's at site on prorated basis i.e on numbers of lifts supplied
2. 15% on completion of E&C and successful operation of lift on prorated basis
3. 5% on completion entire work including PG test of all lifts (Final bill)

**Documents:**

Documents required for release of payments as per the Terms of Payment is as below:

- a. 80% will be released on supply of equipment's at site on prorated basis i.e on numbers of lifts supplied
  - i. Original Tax invoice with duplicate
  - ii. Acknowledged copy of DC/Invoice/Packing List in dispatch along with supplier acknowledged PO copy indicated with Date of receipt, Office sign and seal
  - iii. Copy of Lorry way bill
  - iv. Inspection report/Test Certificate
  - v. Guarantee/Warranty Certificate
  - vi. O&M manuals 3 sets, if any.
- b. 15% will be released on completion of Erection & Commissioning and successful operation of lift on prorated basis
  - i. Original Invoice
  - ii. Work Completion Certificate issued by BHEL
- c. 5% will be released on completion entire work including PG test of all lifts (Final bill)
  - i. Original Invoice
  - ii. PG test Completion Certificate issued by BHEL



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