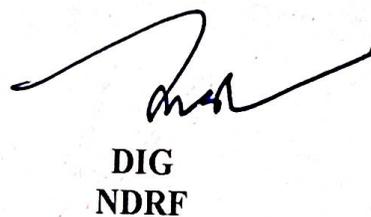


Technical Specifications and Trial Directives of Power Ascender and Descender

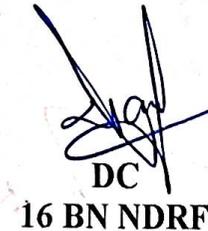
S.No	Parameters	Technical Specifications	Trial Directives
1.	General	Battery-operated rope ascender descender suitable to provide safe and secure access to heights.	
2.	Ruggedness	IP 54 or better	BOO to check and verify the parameter through OEM certificate.
3.	Battery	Lithium ion rechargeable minimum 24 V 6 AH Battery	BOO to check and verify the parameter through OEM certificate.
4.	Rope Diameter	Compatible with 10.5-12 mm Static Rope	BOO to physically check and verify the parameter.
5.	Weight	Maximum 20 kg including battery	BOO to physically check and verify the parameter.
6.	Lifting Capacity	Minimum 180 Kg	BOO to physically check and verify the parameter.
7.	Control Features	Should be easy to operate and come with both the manual and remote control feature.	BOO to check and verify the parameter through OEM certificate.
8.	Battery Pack & Load-Lift Capability	Battery should operate for 200 mtr on a single charge with minimum 180 Kg	BOO to physically check and verify the parameter. (BOO to check on 20 mtr vertical wall by lifting (20 mtr X 10 times)
9.	Ascending Speed	Ascending:- Maximum speed should be 0.5 ft/sec and above	BOO to physically check and verify the parameter.
10.	Safety Features	It should enable safety features with respect to slipping of the rope	BOO to physically check and verify the parameter.
11.	Temperature Range	-10degC to +45degC	BOO to check and verify the parameter through OEM certificate.


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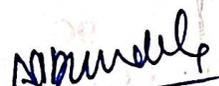

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12.	Holding Capability	The power ascender descender should be able to hold positions at a particular height and be capable of controllable descent with a switched off / discharged battery	BOO to physically check and verify the parameter.
13.	Temperature sensor	Temperature sensor should shut down the motor in event of overheating.	BOO to check and verify the parameter through OEM certificate.
14.	Auto-Brake Mechanism	Auto braking in hands off position should provide for emergency stop	BOO to physically check and verify the parameter.
15.	Motor Direction Control	Should have forward reverse power control	BOO to physically check and verify the parameter.
16.	Training	Both operational and maintenance training will be provided by the Vendor.	BOO to check and verify the parameter through OEM certificate.
17.	Technical Literature	One set of English technical literature will be provided with each equipment.	BOO to physically check and verify the parameter.
18.	Certification	CE/EN/ISO/IS Certified	BOO to check and verify the parameter through relevant certificate.
19.	Accessories	i. Battery-01 Main, 01 spare ii. Battery charger iii. Static Rope (EN-1891)-100 Mtr	BOO to physically check and verify the parameter.
20.	Warranty	Minimum 1 year	BOO to check and verify the parameter through relevant certificate.
21.	Spare Part and Service Support	5 years	BOO to check and verify the parameter through relevant certificate.


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