


44. BULLET CHAIN SAW

SPECIFICATIONS

Carbide Tipped chain saw are petrolengine driven saws designed to cut through different building material like timber, masonry, metal sheet ,FRP ,PVC etc (nut not concrete) these are extremely useful for first responder for inspection, ventilation and obtaining access to victim during CSSR and for other tasks relating to extrication and recovery during natural and man made disasters.		Picture of Equipment
		
1	Engine	Two stroke, single cylinder ,air cooled petrol engine
2	Displacement within 100 cc generating power	Between 5 to 6.5 Hp
3	Engine speed	Between 10000 to 14000 RPM at no load
4	Chain speed	Between 25 to 30 m/s
5	Ignition system	Electronic with easy preferably one button start up (to be specified).
6.	Guard bar length	16 Inch- one piece construction
7	Cutting Chain	Carbide tipped with loc king key and solid bullet rake gauge of size 404 pitch .063 Gauge with heavy duty tie straps and tempered rivets. Fully automatic and adjustable chain lubrication system. Automatic chain broke system for quick stoppage when required. Arrangement for adjusting chain tension should be available.
8	Provision for setting	Should have provision for setting and adjusting depth of cut.
9	Operator Safety and comfort	Full wrap handle and arrangement for reducing vibration to be specified.
10	Weight	With in 12 kg
11	Noise level	Less than 110 dB @ 1 meter
12	Depth of cut	6 to 8 “
13	Fuel tank capacity	0.70 to 1 liter

Technical Specifications and TDs for Battery-Operated Bullet Chain Saw



S/No.	Specifications		Trial Directives
1.	Battery-driven chain saw saws designed to cut through different building materials like timber, masonry, metal sheet, FRP, PVC etc (but not concrete) for inspection, ventilation and obtaining access to victim during CSSR and for other tasks relating to extrication and recovery during natural and man-made disasters.		BOO to physically check the equipment.
2.	Engine	Min 40 V, 8 AH Li-ion battery	BOO to physically check and verify through OEM certification.
3.	Displacement within 100 cc generating power	Min 40 V, 8 AH Li-ion battery	BOO to physically check and verify through OEM certification.
4.	Engine speed	Between 10000 to 14000 RPM at no load	BOO to physically check and verify through OEM certification
5.	Chain speed	10-30 m/s	BOO to physically check and verify through OEM certification.
6.	a) Ignition system b) Guard bar length	a) One button start up b) 16" one piece construction	BOO to physically check and verify the parameter
7.	Cutting Chain	Carbide tipped with locking key and solid bullet rake gauge (in inch)- 0.042-0.044" Chain pitch- 0.063" inch Fully automatic and adjustable chain lubrication system. Automatic chain broke system for quick stoppage when required. Arrangements for adjusting chain tension should be available.	BOO to physically check the parameter and verify through OEM certification
8.	Provision for setting	Should have provision for setting and adjusting depth of cut.	BOO to physically check and verify the parameter
9.	Operator Safety and comfort	Full wrap handle and arrangement for reducing vibration to be specified.	BOO to physically check and verify the parameter
10.	Engine	Min 40 V, 8 AH Li-ion battery	BOO to physically check and verify the battery ratings
11.	Weight	Maximum 12 Kgs with battery	BOO to physically measure and verify the weight.

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S/No.	Specifications		Trial Directives
12.	Noise level	Less than 110 dB @ 1 meters	BOO to physically check and verify through OEM certificate
13.	Depth of cut	Up to 8"	BOO to physically check and verify the parameter.
14.		Accessories <ul style="list-style-type: none"> • Operator's Manual • Tool Kit • Chain Guide Bar with cover (one spare) • 02 Nos spare chains. 	BOO to physically check and verify
15.	Certification	Certification- BIS/EN/CE	
16.	Warranty/ guaranty	One year	
17.	Service support	10 year service support	
18.		Operating Temp- -15 to +50 °C	BOO to physically check the parameter & verify through Govt/NABL approved lab test report for operating temperature & Environmental test in extreme conditions.
19.	Technical Specification for Battery	<ul style="list-style-type: none"> a. Number of batteries supplied- 02 (01 no. Main and 01 no. Reserve) b. Battery Voltage- Min 40V c. Battery Capacity- Minimum 8Ah high output battery d. Battery type- Li-ion 	<p>a) BOO to physically check the parameter.</p> <p>b), c) & d) BOO to physically check the parameter & verify through Govt/NABL approved lab test report/OEM certificate for battery power/ made up material.</p>
20.	Uniform charging and discharging-	Yes	BOO to verify through Govt/NABL approved lab test report.
21.	Overload Voltage protection	Yes	BOO to verify through Govt/NABL approved lab test report.
22.	Battery Level Indicator	Yes	BOO to physically check the parameter.
23.	Battery weight	Max 02 Kg	
24.	Suitable moulded plastic case/light Metal case-	Yes	BOO to physically check the parameter & verify through OEM certificate.
25.	Service warranty	10 Years	BOO to physically check the parameter & verify through OEM certificate.
26.	Cost free warranty	01 Year	

S/No.	Specifications		Trial Directives
27.	Certification	BIS/EN/ CE/ Firm/OEM to provide IEC 62133 or BIS 16046- Test reports.	Compliance certification to be produced by Firms/OEM for BIS/EN. Firm/OEM to provide IEC 62133 or BIS 16046- test reports.
28.	Technical Specification of Charger	<ul style="list-style-type: none"> a. Charger Input Voltage- 220-240 V 50 Hz b. Quick Charge Current- 5 to 15 A c. Charging Time- Less than 100 Min d. Charging Status Indicator- Yes e. Weight of fast charger- Max 3 Kgs 	BOO to physically check the parameter & verify through Govt/NABL approved lab test report/OEM certificate. BOO to physically check the weight using calibrated weighing scale.
29.	Other features may include	<ul style="list-style-type: none"> a) Dual action trigger b) Large metal chip/Dust collector c) Battery protection against overloading d) LED lights for better information of work area e) Guide rail capability for precision cutting 	a), b) d) & e) BOO to physically check the parameter. c) BOO to physically check the parameter & verify through OEM certificate for battery protection against overloading.
30.	Other Accessories	<ul style="list-style-type: none"> a. Operator's Manual b. Grease and Lubricants c. Safety and Warning Labels d. Any other accessories required with the equipment 	BOO to physically check all the accessories.