

48. ROTARY RESCUE SAW



Specifications

S/N	TECHNICAL SPECIFICATIONS	
1	Minimum 60 CC, 2 stroke petrol driven engine.	
2	Air cooled engine.	
3	Minimum Output Power up to 4 HP at 9000 Motor RPM.	
4	With Adjustable blade guard.	
5	RPM above 4000-5500	
6	Provision of wet cutting of materials by providing connection with water line.	
7	Accelerator lock is preferable for continuous use and safety inter lock must be provided.	
8	It should be capable of running 16" Dia blade.	
9	Minimum cutting depth = 100mm.	
10	Fuel tank capacity =0.8 ltr to 1.2 ltr.	
11	Should be capable of cold manual pull cord start.	
12	Noise level should be less than 120 db in one Mtr. around the equipment.	
13	Ignition=Electronic type.	
14	Should be provided with choke arrangement.	
15	Machine holding handle should be rubber coated/robust cutting providing cushion for getting good grip.	
16	Weight not more than 20 kgs with blade and full tank fuel.	
17	With rugged protective carry case.	
18	Rust Proof	
19	International certificate on product quality.	
20	ACCESSORIES.	
	a	Diamond Tipped blades (Spare) carbide type blade and abrasive blade.
	b	5 liter fuel container.
	c	Spare air filter.
	d	Pressure water tank with capacity of minimum 8 ltr along with 5 mtr rubber pipe.
	e	Complete tool kit.
TECHNICAL EVALUATION : Shall be subject to the following :-		
	a	Meeting the requirement as mentioned from srl No. 01 to 20 above.
	b	Design in conformity to EN/DIN/US or equivalent standards and certificate to be submitted along with the bid.
	c	The bidder shall have to demonstrate the performance of their product by cutting the following :- A piece measuring 400 mm X 400mm x100mm made of reinforced cement concrete slab (ration 1:2:3) with four steel bars of 12 mm diameter placed equidistant and the time shall be recorded for cutting for the sample in following way. While cutting, slab shall be erected in standing position and time taken to cut only 100 mm thickness shall be noted for each machine across the thickness of the slab. Numbers of steel bars encountered shall be same for all machines.

		<p>-A piece of iron rod of dia 2" (Quality of iron shall be the same which is utilized in iron bars used for buildings and constructions).</p> <p>-A piece of bullet proof glass of thickness 12mm minimum.</p> <p>-A Piece of stone slab of dimension of 14" X 12" X 4" thickness of slab shall be 4" and the same shall be cut across it cut thickness completely.</p>
	d	<p>SPEED OF CUTTING :- Speed of cutting shall be tested in cutting of concrete slabs as mentioned above. Subject to compliance in all respects, the Rotary Rescue Saw shall be listed in descending order quickest on top and the financial bid shall be opened in respect of all the bidders who have demonstrated cutting time not more than 50% of the quickest cutting time and the lowest financial offer shall be selected.</p> <p>(Note :- Simple glass can be broken and eliminated with the help of hammer and so Rotary Rescue Saw should not be tested for cutting of simple glass).</p>
		DIAMOND TIPPED BLADE
	1	Diamond blade
	2	Blade RPM – above 4000-5500.
	3	Diameter 16"
	4	Minimum cutting of depth of 100 mm.
	5	Type of blade- Multipurpose (For cutting concrete, metal bullet proof glass, wood).
	6	Internationally certified on quality standards.

Technical Specifications of Battery Operated Rotary Rescue Saw

S/No.	Technical Specifications		Trial Directives
1	No load Speed/ Blade speed (RPM)	Above 4000 RPM	BOOs to physically check the parameter & verify through lab test report from Govt. approved/ NABL /International lab/ OEM certificate.
2	Capable of running blade with diameter	Minimum 350 mm blade diameter	BOOs to physically check the parameter
3	Cutting depth	Minimum 100 mm	BOOs to physically check the parameter
4	Weight : Kg	Maximum 20 Kgs (with battery)	BOOs to physically check the parameter
5	Connection with water line for wet cutting	Pressure water tank with capacity of minimum 8 Ltrs along with Min. 5 Mtrs Rubber pipe	BOOs to physically check the parameter
6	Safety features		
	i. Adjustable blade guard		BOOs to physically check the parameter
	ii. Trigger Lock/ Trigger start protection for accidental start up		BOOs to physically check the parameter
7	Noise level at operator's ear	Noise level should be less than 120 db	BOOs to physically check the parameter & verify through lab test report from Govt. approved/ NABL /International lab/ OEM Certificate
8.	Battery Details :-		
	i. Battery voltage: V (with single or double battery)	Min 72 Volt (For battery set)	BOOs to physically check the parameter & verify through OEM certificate
	ii. Ampere- hour : Ah (with single battery)	Min 08 Ah	BOOs to physically check the parameter & verify through OEM certificate
	Battery level indicator- Yes		BOOs to physically check the parameter
	Spare battery set (i.e. one main and one spare)		BOOs to physically check the parameter


DG NDRF


IG NDRF


DIG (Ops),
NDRF


DC, 08 BN
NDRF


DC, 16 BN
NDRF


AFA,
NDMA


DC, CISF
FIRE

9.	Battery charger:-		
	i. Overcharge Protection		BOOs to physically check the parameter & verify through OEM certificate
	ii. LED Charge Indicators		BOOs to physically check the parameter
	iii. Portability		BOOs to physically check the parameter
10.	Cutting Performance Evaluation : The bidder shall have to demonstrate the performance of their product by cutting the following :-		
	The equipment shall be capable of cutting a 70 cm x 70 cm x 70 cm triangular section from a min. 100 mm thick RCC slab (ratio 1:2:3) reinforced with min. four 10 mm/12 mm (approx.) diameter iron bars (min. 02 vertical and min. 02 horizontal) spaced equidistant of 4 to 6 inch apart.		BOOs to physically check the parameter
11	Blade Type with dia (outer) in mm :- (The firm shall either provide blades from the equipment's OEM or submit an authorization letter from the blade OEM.)		
	i. For Concrete	For Concrete – Min 350 mm (Diamond blade)	BOOs to physically check the parameter
	ii. For metal	For metal- Min 350 mm (Abrasive blade)	BOOs to physically check the parameter
	iii. For wood	For wood- Min 350 mm (Carbide blade)	BOOs to physically check the parameter
12	01 spare blade each of Diamond tipped blade, carbide tipped blade and abrasive blade.		BOOs to physically check the parameter
13	Complete tool kit.	As per OEM standards	BOOs to physically check the parameter
14	Warranty	01 Year	BOOs to physically check and verify through OEM certificate.
15	User manual	Required	BOOs to physically check the parameter
16	Carry case	Carrying case as provided by the OEM for the offered product or hard metal carrying case with comfortable gripping handles to be provided by the vendor	BOOs to physically check the parameter
17	Service Support/Spare Parts	07 yrs	Firm to provide undertaking


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