

## 45. DIAMOND CHAIN SAW



### GENERAL

Diamond chain saw suitable for cutting reinforced concrete at least 300 mm thickness and with built in reinforcement up to 12 mm dia. Masonry bricks natural stone or other similar Material.

1. Engine – 2 stroke petrol driven air cooled power shall be not less than 5 H.P.
2. The starter shall be shielded from the dust & water. It shall have electronic ignition protected from water and single spring clutch proofed from water and concrete.
3. Fuel capacity : 01 litre (Approx)
4. The noise level should not exceed 105 dB at 01 mtr.
5. It shall be fitted with diamond chain, which run over the guide bar. The chain saw shall be capable of cutting RCC up to 360 mm thick and iron rod up to 12 mm dia.
6. The water supply required by the chain while cutting shall not exceed 10 lts/Min.
7. The chain saw shall also be provided with measures/Attachment for reducing the force required during cutting operation in order to reduce fatigue on operator.
8. It shall also be provided with foam covered full wrap handles, momentary contract on off switch, water pressure gauge, 360 degree swivel hose connector, sprocket side cover and guard flap for operator safety.
9. Weight : Not more than 20 kgs.
10. Cutting rate :- 10 to 25” per min or more.

### TECHNICAL EVALUATION/INSPECTION

The technical para meter specified above shall be checked at the time of inspection. The supplier at his cost shall provide all tools/Eqpt/materials and facility required for testing inspection.

### ACCESSORIES:-

1. A spare diamond chain.

**Technical Specifications along with TDs of Battery-  
Operated Diamond Chain Saw**



S.No.	Specifications	Trial Directives
1.	Power/ Engine a) Battery Voltage- 18V - 40V b) Battery Capacity- Minimum 8Ah high output battery c) Battery type- Li-ion	d) BOO to check and verify the parameters OEM certification
2.	Shielding The starter shall be shielded from the dust & water. It shall have electronic ignition protected from water and single spring clutch proofed from water and concrete	BOO to physically check and verify the parameters
4.	Noise Level Should not exceed 105 db at 01 mtr	BOO to physically check the parameter and verify through lab report of NABL/Govt accredited lab
5.	Cutting Capability Minimum cutting capability upto 350 mm for RCC and iron rod up to 12 mm dia	BOO to physically check and verify the parameters
6.	Water Supply Required Water supply required by the chain while cutting shall not exceed 10 lts/Min.	BOO to physically check and verify the parameters
7.	Measures The chain saw shall also be provided with measures/Attachment for reducing the force required during cutting operation in order to reduce fatigue on operator.	BOO to physically check and verify the parameters
8.	Operator Safety It shall also be provided with foam covered full wrap handles, momentary contract on off switch, water pressure gauge, 360 degree swivel hose connector, sprocket side cover and guard flap for operator safety.	BOO to physically check and verify the parameters
9.	Weight Not more than 20 kgs.	BOO to physically measure the weight using calibrated weighing scale
10.	Cutting Rate 10' to 25" per min or more	BOO to physically check and verify the parameters

*(Handwritten signatures and initials in blue ink)*

11.	Battery	01 spare battery required	BOO to check and verify the accessories as mentioned
12.	Charger	<b>Technical Specification of Charger</b> a) Charger Input Voltage- 220-240 V 50 Hz b) Quick Charge Current-5 to 15 A c) Charging Time- max 140 min d) Charging Status Indicator- Yes e) Weight of fast charger- Max 800 gm	For a),b),c)&d), BOO to check & verify the parameters through OEM certificate. For e), BOO to physically check the weight

 







