

SPECIFICATION FOR GREEN MOWER
SPECIFICATION NO.MECH/M&P/3100/GM/13

1.0 IMPORTANT INSTRUCTIONS TO TENDERERS FOR FILLING TECHNICAL BID

- 1.1 Bidders are required to give clause wise comments on the technical specifications, confirming compliance/non-compliance with details of deviations if any along with their effect on the performance. Back references to be avoided, offers are likely to be ignored in case of non-compliance of these instructions for furnishing the information.
- 1.2 Unless otherwise stated, latest alterations/ revisions of specifications/ standards/ drawings shall be applicable. In respect of safety standards and environmental standards relevant to the machine, the machine manufacturers shall ensure compliance with international (CE/ISO/DIN/JIS)/National standards (IS) (where applicable).
- 1.3 Tenderers should offer and quote for all the specified concomitant accessories, as these are considered essential for commissioning and utilization of the machine. Even if bidder does not recommend the purchase any of these accessories, the price must be quoted for comparison purposes and their recommendation/suggestion indicated in the offer. Tenderers should also quote for optional accessories, spares and consumable spares as asked in the specifications.
- 1.4 In case, any item is required in sets, please specify nos./pieces per set. This is essential for proper technical evaluation of the offer. Offers received without this may be considered as incomplete and liable to be rejected.
- 1.5 The bidder should quote only for the specified make of sub-assemblies and equipment wherever specified. Makes of sub-systems other than the specified ones will normally not be acceptable. In case, some other make is quoted, specific reasons for the same including its features/advantages over specified makes must be brought out in the offer.
- 1.6 In case there is a contradiction in any information provided (some parametric values given in the specification and those given in the brochure or some other document enclosed by the tenderer), unless specifically mentioned in the deviation cum confirmation statement the values as given in the specification shall be taken as confirmed by the tenderer and offer evaluated accordingly.
- 1.7 The Purchaser may accept internationally accepted alternative specifications which ensure equal or higher quality than the specifications mentioned in the Technical Specification. However, the decision of the Purchaser in this regard shall be final.
- 1.8 Purchaser reserves the right to verify the details submitted by the bidder by actual site visits.
- 1.9 Other terms & condition of the contract will be as per Indian Railway Standard conditions of contract.

2.0 PURPOSE:

To improve the greens of RCF Golf Course.

3.0 DESCRIPTION AND SCOPE OF SUPPLY

3.1 The scope of supply covers supply, design, installation and commissioning of machine as detailed in the specifications and other concomitant accessories/equipments, which the manufacturer considers essential to make the machine fully operational when installed and connected to power source and other utilities. Requirement of utilities etc. if any, should be clearly indicated by the tenderers in the offer.

3.2 For basic design features of the machine, please refer clause 4 and its sub clauses.

3.3 The total value of the offer will be calculated on :

- i) The cost of the basic machine with light kit.
- ii) Cost of the concomitant accessories according to tender specification.
- iii) Cost of any other accessory treated as concomitant accessory
- iv) Applicable duties and taxes, insurance, freight installation and commissioning, training etc.

4.0 GENERAL FEATURES

4.1 Main parameters should conform to Schedule 'A' to this specification.

4.2 Machine should be prefitted with bedknife and supplier should specify the height which can be achieved with this.

4.3 Only Engine of reputed make should be fitted.

4.4 The machine should be capable of operating in severe workshop conditions of dust temperature between 0°C to 50°C and humidity up to 98%. The system should be capable of working under these conditions continuously for 3 shift working

4.5 The following literature in English should accompany the machine on delivery.

- a) 03 copies of operating and services manuals.
- b) 03 copies of spares catalogue and part list.

5.0 CONCOMITANT ACCESSORIES

5.1 The tenderer shall supply a list of concomitant accessories which will be supplied alongwith the machine. The cost of each listed concomitant accessory should be quoted separately. Wherever for any reason the cost of any concomitant accessory is included in the basic price of the machine, the same should be specifically so mentioned.

5.2 Any other accessory, which in the opinion of the tenderer can contribute to higher production rates, should be indicated and quoted separately.

6.0 SPARES

6.1 The tenderer should furnish details of spares covered under warranty.

6.2 The tenderer should also furnish the price list of spare parts required for three years normal maintenance of the equipment.

7.0 COMMISSIONING AND PROVING OUT

- 7.1 The successful tenderer shall have to commission the Machine within 15 days from the date of receipt of Machine at RCF, Kapurthala.
- 7.2 The successful tenderer shall have to prove out the performance of the machine at RCF premises to the entire satisfaction of the consignee.

8.0 TECHNICAL LITERATURE:

- 8.1 One copy of the printed illustrative catalogue showing features of the machine and its elements must be enclosed with each copy of the bid.
- 8.2 The successful tenderer will have to furnish for each Machine 4 copies of spare parts catalogue giving the part List number of each component with exploded views and assembly drawings, maintenance manual, trouble-shooting guide, operational manual of the machine and all circuit diagrams.

9.0 ELIGIBILITY CRITERIA:

- 9.1 The tenderer shall be registered on IREPS website (www.ireps.gov.in) to participate in the tendering process.
- 9.2 The tenderer shall have supplied to the following international golf courses of India:
 - a) Delhi Golf Club, New Delhi.
 - b) DLF Golf Club, Gurgaon.
 - c) JP Greens Golf club, Greater Noida.
 - d) Chandigarh Golf Club, Chandigarh.
 - e) ITC Classic Golf Club, Gurgaon.
 - f) Golden Green Golf Club, Gurgaon.
 - g) KGA Golf club, Bangalore.
- 9.3 The tenderer shall have established quality control system and organization to ensure adequate control at all stages of the manufacturing process.
- 9.4 The tenderer shall provide a performance statement giving a list of major supplies of same/similar equipments effected in last 5 years to the above golf courses giving details of the order no. and date and the quantity supplied and whether the supply was made within the delivery schedule. Such period shall be reckoned from the date of opening of tender.
Tenderer not submitting the requisite information may note that his offer is liable to be ignored.

10.0 SPECIAL FEATURES:

Special features incorporated into the machine, if any, shall be indicated separately by the tenderer, clearly indicating the advantages of these features.

11.0 WARRANTY:

The warranty condition of contract will be as per IRS conditions or as quoted by the tenderer whichever is later.

SCHEDULE- 'A'

MAJOR PARAMETERS:

Engine	4.5 to 5HP(air cooled OHC Petrol engine 3500-3700 rpm. Displacement: 120-130 cc. Cast Iron cylinder sleeve. Output shaft speed is to be half of engine RPM. Electronic ignition & integral lighting coil, maximum noise suppression muffler, noise level not to exceed 85dB(A) at operator's ear.
Fuel capacity	App. 2.7 liters regular grade unleaded gasoline.
Ground speed	It shall be able to work at variable moving speeds varying from 2.5 KMPH to 5.5 KMPH and it should be able to achieve transport speed of 8 KMPH.
Differential	Peerless series 100 or equivalent.
Clutches	Traction: inside bolt idler, Reel: Jaw type.
Brake	Service/ parking-band type.
Traction drum	Dual cast aluminum, 19cm-20cm diameter.
Controls	Engine mounted; recoil starter, choke, handle mounted; on/off switch, throttle lever, traction engage lever, service/ park brake lever, Frame mounted; reel drive engage lever.
Safety devices	Neutral interlock system, servicing/ park brake, enclosed drive system.
Optional Device	Operator Presence control
Handle	Loop style; 2.5cm diameter with pull pin height adjustment.
Transport tires/ kickstand	Two quick detachable pneumatic tyres 3.0Dx3.25-C, 15psi (1.03 bars) tyre pressure, Kickstand IS standards, wheels (optional)
Reel construction	Carbon steel blades (Minimum 11 blades) welded to stamped steel spiderodo
Width of cut	20"-22"
Height of cut	2.0 – 25mm
Bedknife/ bedbar	Dual screw "click" adjustment to reel, bedknife of high carbon austempered steel. Tournament bedknife standard.
Grass basket	Moulded polyethylene, baffled and vented for high efficiency collection.
Front roller	Aluminum roller standard : 2"-2.5" diameter, 200 spacing
Weight	90 to 100 kg approx. with aluminum Wiehle roller, kickstand and grass basket.
Certification	Certified to meet ANSI specifications B71, 4-2004 and European Community (CE) specifications with required kils installed.

Note: Slight variation in above parameters can be accepted in case of reputed brand and proven performance subject to the condition that main output / working parameters are met. However supplier will have to give sufficient evidence for the deviation.