

Attachment-1: Technical Specifications and Compliance Sheet

Electric Tractor, Implements, Accessories, and Spare Parts

1. General Requirements

This document outlines the technical specifications for the supply of Electric Tractors, Power Tillers, Implements, Accessories, and Spare Parts. Bidders must complete the compliance section for each item and confirm adherence to the specifications provided.

All implements must be tested with the proposed electric tractor before shipment. Proof of testing (Factory Acceptance Test report, performance data sheet, and video documentation) shall be submitted with the bid.

Section A – Electric Tractors / Power Tillers

A1. Electric Tractor (4 Wheel)

No.	Parameter	Specification	UOM	Bidder Compliance (Yes/No / Remarks)
1	Motor	1500	watt	
2	Voltage	48	volt	
3	Amp rating	15–20	amp	
4	Size (L×B×H)	6.50 × 3.08 × 3.91	ft	
5	Weight	490	kg	
6	Ground clearance	13	inch	
7	Peak motor torque	24	Nm	
8	At-wheel torque	16	Nm	
9	HP equivalent	15	hp	
10	Pulling power	2	ton	
11	Lift capacity	300	kg/quintal	
12	Runtime	6–8	hrs	
13	Wheel size (front)	4.00×10	inch	

14	Wheel size (rear)	6.00×12	inch	
15	Drive train	Chain Drive	-	
16	Battery	48 V / 200 Ah	volt/amp	
17	IP rating (Motor)	IP 54	-	
18	Tyre tread pattern	Deep Lug	-	
19	Backup with 200 Ah battery	6–8	hrs	

A2. Electric Power Tiller (2-wheel; Type 1)

No.	Parameter	Specification	UOM	Bidder Compliance (Yes/No / Remarks)
1	Motor	1500 W BLDC	watt	
2	Tyre	4.00×10 inch; 4.7×21.6 inch	inch	
3	Weight	180 kg with 100 Ah LiFePO4 battery	kg	
4	Wheel Track	24	inch	
5	Backup	4–6 hours	hrs	
6	Battery	100 Ah LiFePO4 battery	Ah	
7	Ground Clearance	16	inch	
8	Torque (Wheels)	≈ 300 Nm	Nm	
9	RPM (Wheels)	63	rpm	

A3. Electric Power Tiller (2-wheel, Type 2)

No.	Parameter	Specification	UOM	Bidder Compliance (Yes/No / Remarks)
1	Motor	1200 W BLDC	watt	
2	Motor input voltage	48 V DC	volt	

3	Tyre	4.00×10.00	inch	
4	Dimensions	830×850×550	mm	
5	Weight	120 kg (including 48 Ah LiFePO4 battery)	kg	
6	Wheel Track	26– 29 inch (interchangeable)	inch	
7	Backup	3–5 hours	hrs	
8	Battery	48 Ah / 60 Ah LiFePO4	Ah	
9	Top Speed	10	km/hr	

Section B – Implements

B1. Sprayer

No.	Parameter	Specification	UOM	Bidder Compliance (Yes/No / Remarks)
1	Motor	750	watt	
2	Voltage	48	volt	
3	Amp rating	10	amp	
4	Spraying (Min.)	17/22	lt/min	
5	Range of spray	15	ft	
6	Water capacity	200	ltr	
7	Backup with 200 Ah battery	6–8	hrs	

B2. Rotavator (Type 1, 36")

No.	Parameter	Specification	UOM	Bidder Compliance (Yes/No / Remarks)
1	No. of blades	32	nos	
2	Material	MS Hardened	-	

3	Depth	4–6	inch	
4	Side width	24	inch	
5	Motor	1500	watt	
6	Voltage	48	volt	
7	Amp rating	25–50	amp	
8	Backup with 200 Ah battery	6–8	hrs	

B3. Rotavator (Type 2, 21”)

No.	Parameter	Specification	UOM	Bidder Compliance (Yes/No / Remarks)
1	Blade Size	130 mm × 25 mm × 75 mm	mm	
2	Depth	75	mm	
3	Battery Backup	Slightly less than tilling operation backup	–	
4	Weight	58	kg	
5	Dimension of Rotavator	640 mm × 560 mm × 440 mm	mm	
6	RPM	250 (motor rpm ≈ 3000)	rpm	

B4. Trolley

No.	Parameter	Specification	UOM	Bidder Compliance (Yes/No / Remarks)
1	Size (L×H×W)	6×4×1	inch	
2	Capacity loading	1	ton	
3	Tyre no.	2	nos	
4	Tyre size	4.00×10	inch	
5	Tyre thread pattern	Symmetrical	-	

B5. Twin Blade Brush Cutter

No.	Parameter	Specification	UOM	Bidder Compliance (Yes/No / Remarks)
1	No. of blades	2	nos	
2	Material	304	ss	
3	Height of cutting	3	inch	
4	Side width	37	inch	
5	Motor	750	watt	
6	Voltage	48	volt	
7	Amp rating	15–20	amp	
8	Backup with 200 Ah battery	6–8	hrs	

B6. Reaper

No.	Parameter	Specification	UOM	Bidder Compliance (Yes/No / Remarks)
1	Cutting width	3	ft	
2	Cutting height	3	inch	
3	RPM	1200	rpm	
4	Amp rating	8–18	amp	
5	Motor	750	watt	
6	Voltage	48	volt	
7	Backup with 200 Ah battery	6–8	hrs	

B7. Ride On Attachment for 2-wheel tractor

No.	Parameter	Specification	UOM	Bidder Compliance (Yes/No / Remarks)
1	Weight	52	kg	

2	Tyre size	3.75×12	inch	
3	Wheel track	670	mm	

B8. Power Sprayer

No.	Parameter	Specification	UOM	Bidder Compliance (Yes/No / Remarks)
1	RPM	1320	rpm	
2	Head	20	feet	

B9. Seeder – standard

No.	Parameter	Specification	UOM	Bidder Compliance (Yes/No / Remarks)
1	Weight	35	kg	
2	Number of rows	3	rows	
3	Depth	3	cm	
4	Dimensions	L34×B24×H29	inch	

B10. No-till planter

No.	Parameter	Specification	UOM	Bidder Compliance (Yes/No / Remarks)
1				
2				
3				
4				

Section C – Accessories

Item No.	Description	Technical Specification (from Sukoon)	Bidder Compliance (Yes/No / Remarks)
C1	Battery Charger	AC 220V single-phase input; Output 96V DC; 3–6 kW; auto cut-off; IP65 enclosure.	

C2	Battery Swapping Cradle	Manual or hydraulic assist cradle; lock system for battery alignment.	
C3	Tool Kit	Standard toolkit for daily maintenance and adjustments.	
C4	Lighting Kit	LED work lamps and headlight assemblies.	
C5	Tow Hooks and Safety PPE	Tow hooks for implement attachment; PPE set for operator safety.	

Section D – Spare Parts

Item No.	Description	Technical Specification (from Sukoon)	Bidder Compliance
D1	Consumable Parts Set	Filters, belts, fuses, and connectors for 2 years of operation.	
D2	Critical Spare Parts	Motor controller, DC-DC converter, sensors, PTO couplings, hydraulic seals.	
D3	Battery Safety Accessories	Battery management system fuses, insulation mats, gloves, tools.	
D4	Tyres	1 set of replacement Tyres for all proposed tractors	
D5	Battery	LiPO4 100 AH Batteries for Tractor (w/ chargers)	
D6	Battery	LiPO4 200 AH Batteries for Tractor (w/ chargers)	
D7	Battery	LiPO4 60 Ah Batteries (w/ chargers)	

Section E – Documentation and Testing Requirements

- Bidders must submit with their quotation:
- Factory Acceptance Test (FAT) report and video proof for tractor–implement compatibility.
- Operation and Maintenance Manuals for all equipment.
- Warranty Certificates (minimum 24 months or 2000 operating hours).

- Pre-Shipment Inspection checklist signed by manufacturer and witness.

Section F – Declaration of Compliance

We hereby confirm that the equipment, implements, and accessories offered in our bid conform fully to the specifications stated in this document.

Bidder Name: _____

Authorized Signature: _____

Date: _____