



## SKN COLLEGE OF AGRICULTURE

(Sri Karan Narendra Agriculture University)

JOBNER- 303329 Distt. Jaipur (Raj.)

Phone: 01425-254022 (O), E-mail: [dean.skncoa@sknau.ac.in](mailto:dean.skncoa@sknau.ac.in)

Website: <https://skncoa.sknau.ac.in>



No./CS/SKNCOA/2026/3144

Date: 15.03.2026

### LIMITED TENDER

Sealed tender are invited from the reputed firm to the supply the Parking Management System, Gate Barrier and related accessories. The tender will be accepted upto **18.03.2026** at **11.00 AM** and will be opened on the same day at **11.30** by the committee. The Dean has all right to accept / reject any tender without assigning any reasons. The Approximate cost of tender is Rs. **1,60,000**. Purchasing quantity can be increase/ decrease. The supply of the items should be provided on F.O.R. SKN College of Agriculture, Jobner.

Name of Items /Common Head		Technical Specification	Qty	
I. SYSTEM CONTROLLER	Component	Parameter		
	IOT CONTROL UNIT	Processor	Broadcom BCM2711, Quad- core Cortex-A72 (ARM v8) 64-bit SoC @ 1.8GHz	01 Set
		Memory	LPDDR4 RAM (Options: 2GB, 4GB, or 8GB) with on-die ECC	
		Connectivity	Gigabit Ethernet, Dual-band WiFi (2.4/5.0 GHz), Bluetooth 5.0, BLE	
		Industrial I/O	RJ45, RS232, RS485, 2x USB 3.0, 2x USB 2.0; 40-pin GPIO	
		Relay Control	Integrated 4 to 8 Relay Slots for hardware triggering/ logic	
		Reliability	MTBF 211,000 hours; Debian- based 64-bit	

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			Architecture
	<b>ADMIN DASHBOARD</b>	Real-Time Monitoring	Instant entry/exit reporting and continuous hardware status tracking
		Data Analytics	Insights into peak traffic volumes, trends, and vehicle classification
		Video Evidence	Image Capture Camera integration for logs with photos and timestamps
		Asset Management	Integrated inventory tracking for parking lot resources and assets
	<b>MOBILE APPLICATION</b>	User Alerts	Real-time push notifications for vehicle movement (Entry/Exit)
		Security Controls	Remote anti-theft locking and unauthorized movement alerts
		Digital Permits	In-app permit pass generation and integrated payment gateway
		Compliance	Automated "Wrong Parking" detection and resident notification
<b>II. PHYSICAL BARRIER</b>	<b>HEAVY DUTY CHASSIS</b>	Motor Technology	24V DC Brushless motor; 100% Continuous use frequency
		Performance	2.5s Opening Time; Max torque 240 Nm; 165W Max Power
		Material Finish	Pre-hot dip galvanized Steel (20µm) + Polyester powder coated
		Environment	Operating Temp: -

			20°C to +55°C; IP55 (Control) / IP44 (Housing)
	<b>POLE</b>	Height	8ft
		Width	Diameter 3 meter
		Weight	10kgs
	<b>SWING-AWAY ARM</b>	Impact Mechanism	Mechanical Breakaway/Swing- Away assembly; 90° swing on impact
		Construction	4500mm Length Cylindrical Aluminum Alloy (6063) with High- density PE foam
		Visibility	High-intensity reflective tape (Green & White); 2x Wireless Remotes
		Safety Logic	Auto-Reverse on obstruction; Keyed manual override release
<b>III. SAFETY &amp; POWER</b>	<b>RFID &amp; SENSORS</b>	RFID Capability	Support for ISO18000-6B and ISO18000-6C; 12- 15m Read Range
		Loop Detector	20-1000µH; ≥ 99% detection rate; Dual relay output (VDRM 70V)
		Safety Photocell	15m Range Infrared; IP55 Waterproof ABS; NO/NC Relay mode
		Support Hardware	Adjustable Arm Rest; 4-anchor bolt fixing; Foam- cushioned top
		User Interface	Tactile feedback Push Button; 24V DC; Operating: - 20 to +70 °C
	<b>UPS BACKUP</b>	Power Specs	1000VA / 600W Line Interactive UPS; 140V-300V AC Input

RED.

		Backup Storage	2 x 12V/7AH Sealed Maintenance Free (SMF) Batteries
		Efficiency	4-8ms Transfer Time; Modified Sine Wave; 6-8hr recharge cycle
<b>IV. SERVICE &amp; WARRANTY</b>	<b>INFRASTRUCTURE</b>	Civil Scope	Excavation, foundation (PCC), cable trenching, and conduit laying
		Cabling	14-core Signal cable; 3-core Power cable; CAT 6 Networking; 1 Network Switch
		Handover	Commissioning, Staff Training, and Setup
	<b>SERVICE</b>	Warranty	12 Months (1 Year) Comprehensive Warranty from date of commissioning

Interested firms / tenderers may quote their rate in the attached Performa and submit their tender to the under signed in sealed envelope.

#### Terms and Conditions

1. The rates quoting firm should have GST Number.
2. The responsibility of GST / other charges etc. as per govt. rule will be borne by suppliers.
3. The firm should clearly mention the brand name and traditional name of the item/system.
4. No advance payment will be made.
5. All items/ whole system will be installed by the firm at their own cost at the campus.
6. Warranty of items should be mentioned.
7. Delivery should be given within seven days of work order
8. Lowest price quoted will not qualify for selection of tender but quality and desired standards will also be considered.
9. Bidders have to quote their rates in the Performa given only.



Dean & FC

#### Copy to:

1. The Comptroller, SKNAU, Jobner
2. The Convener/ Members Tender Purchase Committee, SKNCOA, Jobner.
3. The DDO/ SO, SKNCOA, Jobner
4. The Incharge Accounts, SKNCOA, Jobner please upload the tender website [www.sknau.ac.in](http://www.sknau.ac.in) and [sppp.rajasthan.gov.in](http://sppp.rajasthan.gov.in)



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No./CS/SKNCOA/2026/

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## PROPOSED RATES

Name of Items /Common Head		Technical Specifi- cation	Qty	Rate per Set	GST (%)	Total amount with GST (Rs.)
I. SYSTEM CONTROLL ER	Component	Parameter				
	IOT CONTROL UNIT	Processor	Broadcom BCM2711, Quad-core Cortex-A72 (ARM v8) 64-bit SoC @ 1.8GHz	01 Set		
		Memory	LPDDR4 RAM (Options: 2GB, 4GB, or 8GB) with on-die ECC			
		Connecti- vity	Gigabit Ethernet, Dual-band WiFi (2.4/5.0 GHz), Bluetooth 5.0, BLE			
		Industrial I/O	RJ45, RS232, RS485, 2x USB 3.0, 2x USB 2.0; 40- pin GPIO			
	Relay	Integrated 4				

		Control	to 8 Relay Slots for hardware triggering/ logic				
		Reliability	MTBF 211,000 hours; Debian-based 64-bit Architecture				
	<b>ADMIN DASHBOARD</b>	Real-Time Monitoring	Instant entry/exit reporting and continuous hardware status tracking				
		Data Analytics	Insights into peak traffic volumes, trends, and vehicle classification				
		Video Evidence	Image Capture Camera integration for logs with photos and timestamps				
		Asset Management	Integrated inventory tracking for parking lot resources and assets				
	<b>MOBILE APPLICATION</b>	User Alerts	Real-time push notifications for vehicle movement (Entry/Exit)				
		Security Controls	Remote anti-theft locking and unauthorized movement alerts				
		Digital Permits	In-app permit pass generation				

			and integrated payment gateway				
		Compliance	Automated "Wrong Parking" detection and resident notification				
<b>II. PHYSICAL BARRIER</b>	<b>HEAVY DUTY CHASSIS</b>	Motor Technology	24V DC Brushless motor; 100% Continuous use frequency				
		Performance	2.5s Opening Time; Max torque 240 Nm; 165W Max Power				
		Material Finish	Pre-hot dip galvanized Steel (20µm) + Polyester powder coated				
		Environment	Operating Temp: -20°C to +55°C; IP55 (Control) / IP44 (Housing)				
	<b>POLE</b>	Height	8ft				
		Width	Diameter 3 meter				
		Weight	10kgs				
	<b>SWING-AWAY ARM</b>	Impact Mechanism	Mechanical Breakaway/S wing-Away assembly; 90° swing on impact				
		Construction	4500mm Length Cylindrical Aluminum Alloy (6063) with High-density PE				

			foam				
		Visibility	High-intensity reflective tape (Green & White); 2x Wireless Remotes				
		Safety Logic	Auto-Reverse on obstruction; Keyed manual override release				
<b>III. SAFETY &amp; POWER</b>	<b>RFID &amp; SENSORS</b>	RFID Capability	Support for ISO18000-6B and ISO18000-6C; 12-15m Read Range				
		Loop Detector	20-1000 $\mu$ H; $\geq$ 99% detection rate; Dual relay output (VDRM 70V)				
		Safety Photocell	15m Range Infrared; IP55 Waterproof ABS; NO/NC Relay mode				
		Support Hardware	Adjustable Arm Rest; 4-anchor bolt fixing; Foam-cushioned top				
	User Interface	Tactile feedback Push Button; 24V DC; Operating: -20 to +70 °C					
	<b>UPS BACKUP</b>	Power Specs	1000VA / 600W Line Interactive UPS; 140V-				

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			300V AC Input				
		Backup Storage	2 x 12V/7AH Sealed Maintenance Free (SMF) Batteries				
		Efficiency	4-8ms Transfer Time; Modified Sine Wave; 6-8hr recharge cycle				
<b>IV. SERVICE &amp; WARRANTY</b>	<b>INFRASTRUCTURE</b>	Civil Scope	Excavation, foundation (PCC), cable trenching, and conduit laying				
		Cabling	14-core Signal cable; 3-core Power cable; CAT 6 Networking; 1 Network Switch				
		Handover	Commissioning, Staff Training, and Setup				
	<b>SERVICE</b>	Warranty	12 Months (1 Year) Comprehensive Warranty from date of commissioning				

**Brand Name of the set/system:**

**Signature of authorized person**

**Name of firm with full address**

**GST Number (Attach certificate)**

**Bank details (Bank Name, Account No., Branch Name & IFSC Code)**