

POS based Public Distribution System

REQUEST FOR PROPOSAL (RFP)

*Selection of Agency for implementing a pilot project of FPS automation in
Noorsarai Block of Nalanda District with PoS devices for Food & Consumer
Protection Department, Government of Bihar*

Date:-

FOOD & CONSUMER PROTECTION DEPARTMENT

Govt. of Bihar
Old Secretariat Building
Patna-800015

RFP NOTICE

RFP for the purchase of Point of Sale (POS) Terminal are hereby invited from the vendors by **Food & Consumer Protection Department** through the tendering process. The RFP documents can be downloaded from departmental Website: <http://fcp.bih.nic.in> or Collected from **Food & Consumer Protection Department**.

The RFP document containing "Technical bid" and "financial bid", complete in all respect should be submitted on or before **31st Oct 2016** up to **3:00 PM** which will be opened on the same day in the presence of the vendors or their representatives who may like to be present at that time. The sale of RFP document will commence on the next date of publication of this RFP notice and will close on the date specified on the RFP document.

The Pre-bid presentation cum meeting on RFP shall be perform on 20-10-2016. The participation of vendor is mandatory in the meeting.

All the vendors should also give a brief resume about their firm/company. Their turnover and firms/ offices to which they are supplying quoted items, should also be mentioned.

Bihar Government reserves the right to reject all or any of the RFP without assigning any reason thereof. The RFP which is conditional/ incomplete/ belated/ without earnest money, processing fees, RFP fees will not be entertained.



Additional Secretary
Food and consumer Protection department
Govt of Bihar

RFP DOCUMENT

Document No: 01/2016

Date: 06-10-2016

1. Name and Address of the party
2. RFP Document for **Purchase of Point Of Sale Terminals**
3. Earnest money Deposit **Rs. 1,50,000/-**
4. Cost of RFP document **Rs. 1000 /-**
5. Last date of sale of RFP **30-10-2016**
6. Pre-Bid Meeting on **20-10-2016**
7. Last date for submission of RFP. **31-10-2016 till 3:00P.M**
8. To be opened on **5 P.M on 31-10-2016**
9. Last date for submission of written Queries for clarifications **19-10-2016**
10. Contact Person for queries **Mrs. Pratibha Sinha ,
O.S.D Food & Consumer Protection Department
Govt. of Bihar**
11. Addressee and Address at which RFP to be submitted **Principal Secretary
Food and consumer Protection department**

Note:

All the Pre Bid Queries would be accepted in written form (and a copy through mail also) only at below address:

Principal Secretary
Food and consumer Protection department
Govt of Bihar
Old Secretariat Building,
Patna-800015
Email:-foodbihar@gmail.com

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1. PROJECT BACKGROUND

1.1. INTRODUCTION

After rolling out of NFSA 2013 from 1st Feb 2014, it is primary objective of the state govt. to ensure delivery of entitled food grains to the actual beneficiaries in an accurate & transparent manner. The manual maintenance of records for issuance of food grains at the Fair Price Shops helps in creating a supportive environment for the FPS owners to divulge in malpractice. Keeping in mind the above, it is crucial to strengthen the PDS to ensure adequate supplies, reasonable subsidies and efficient delivery of subsidized food.

The Government of Bihar views the Targeted Public Distribution System (TPDS) as an important constituent of a strategy for ensuring food security of the targeted population by ensuring availability of monthly quota of food grains to them as per entitlement through Fair Price shops. The Government is committed to implement the TPDS to the best advantage of the beneficiaries with full transparency, and efficiency of operations and accountability of authorities implementing it.

1.2 PROJECT OBJECTIVES

The primary project objective is that the Food and Consumer Protection Department, GOB envisages with the implementation of Aadhaar authenticated PoS device based food grain distribution to the actual beneficiaries.

Following are its objectives :

- i. Timely and need based allocation.
- ii. Prevention of diversion of essential commodities.
- iii. Containment of arbitrary decision making at all levels
- iv. Induction of transparency and accountability in operations.
- v. Reduction of redundant workload of department employees.
- vi. Electronic security and control of confidential data.
- vii. Fast disposal of stakeholder grievances.
- viii. Dissemination of information as per public requirements.
- ix. MIS for monitoring and quick decision making.
- x. Protecting the interest of all the stakeholders.
- xi. To improve service delivery and create transparency.
- xii. To empower beneficiary.
- xiii. To weed out bad FPS and bogus Ration Cards.

1.3 PROJECT IMPLEMENTATION STRATEGY

The project will be executed in Pilot phase:-

Pilot Rollout

This phase will involve rollout of the project across 59 FPSs of the Noorsarai Block of Nalanda District. Time period for the Pilot Phase will be 2 months. System integrator will do the function of Application installation (Integration with central server, application development and customization) & installation of PoS device and maintenance of PoS device. Technical support will be taken from NIC as per need.

2. FPS AUTOMATION PROCESS:

❖ Strategy to be adopted

In e-PDS, FPSs will be equipped with a POS with GPRS connectivity. Food grains will be given manually at FPS but authentication and record of transaction on server is done through this POS.

I. Issuance of the commodities by Godowns to FPS Incharge

Godown incharge will deliver food grains to FPS dealer after Aadhar authentication of FPS dealer.

II. Issuance of the commodities by FPS to the Beneficiaries

(a) Online mode

- Foodgrain will be deliver by FPS dealer after Aadhar authentication of the beneficiaies online.
- POS reads the ration card number and sends it to the server through GPRS to get beneficiary's entitlement balances.
- FPS sales person enters the quantities to be issued to beneficiary and submits to the server.
- Server updates the transaction and gives the success report. Detailed transactions are updated on the server.
- A receipt is printed and the commodities are issued to beneficiaries.

(b)Offline mode

- Food grains will be delivered by FPs dealer after Aadhar Authentication of the beneficiary.
- POS reads the details of the FPS current stock allocation and stock status.
- POS reads the ration card number and sends it to the server through GPRS to get beneficiary's entitlement balances.

In this model, there will be a piece of application software (FPS Automation Sales), which shall be installed in every device. Alternatively, the application may be developed by the SI/Vendor based on the FRS published and installed in the supplied devices.

o Where the is no connectivity, the FPS dealer shall carry the device to their respective FSO/TSO and push the last month's sale transactions to the PDS server and then pull current month's allocation, policy and beneficiary details to the POS/Mobile tablets. The device shall be capable of performing sale transactions, if connectivity prevails then the same shall be bio authenticated based sales otherwise without bio authenticated sales. On completion of the monthly sales, the process shall be repeated.

The device has ability to take backup in USB /SD card and must be authenticated within 24 hours period.

3.SCOPE OF WORK

i. Geographical Scope of project:

The project roll-out will be in Noorsarai Block of Nalanda District with 59 FPS.

ii. Supply, Installation, Maintenance of Devices, data security and training

- a. The bidder shall procure and deploy PoS devices at all locations where FPS are located in his allotted area of operations which should be CE/EMI/EMC compliant and biometric features should be STQC certified in compliance with Gol guidelines of Ministry of Consumer affairs, Food and Public Distribution Department for the PoS devices.
- b. The bidder shall demonstrate all the features of proposed PoS device through a proof of concept (POC) implementation at bidder's own cost. POC is required to be given at central point (Patna) to ensure compliance as per requirements however a certificate that all machines deployed in each group, is to be submitted by SI. If more than one type/make/model of machine is to be deployed in field then demonstration of all types/makes/models of machine will need to be provided and prior approved by the Food and Consumer Protection Department, Bihar.
- c. The bidder shall deploy sufficient resources to plan and manage the installation of PoS devices at all service points in the area of operations. The bidder shall ensure that the PoS devices are delivered and installed in a safe and secure manner.
- d. The bidder may be required to plan and take up PoS device deployment in a phased manner across FPS and geographical areas as may be decided at a later date by Dept. of Food or its representatives.
- e. The bidder shall make available additional PoS Machines at district level of the state to address any machine break-downs. A stock of additional 10% machines of the total machines will be available at district.
- f. The bidder has the responsibility of maintainace of PoS device having atleast two person deploy in the district for maintainace purpose.
- g. The bidder has the responsibility to maintain PoS device during all working days and within working hours of PDS shop.

- h. The bidder has to pay all the charges required for UID authentication as well as SMS during online/offline transaction at FPS, if any.

iii. PoS Compatibility

POS device should be compatible with any operating system with Graphic User Interface, Java Virtual Machine or equivalent support and should be accompanied by software development kit for third party application development.

iv. Connectivity Support

POS device should support all connectivity options as specified in Annexure D and shall support services provided by Telecom Service Providers (BSNL, Idea, Reliance, Airtel, Tata Docomo, Aircel, Vodafone etc) and other operators operating in Bihar.

v. MAINTENANCE OF POS TERMINALS:

- ❖ The vendor will provide 3 years **onsite comprehensive warranty for POS Terminals.**
- ❖ The vendor shall keep in readiness of minimum 10% of the devices with his authorized office for maintenance located in Patna for replacement of faulty devices without losing any data and time.
- ❖ The faulty device is required to be repaired or replaced as per the penalty clause 25 in the Terms and Conditions in the RFP
- ❖ The scope of hardware support services will include preventive and corrective comprehensive maintenance and cover installation, on-site diagnosis and resolution of hardware faults in response to the reported problems. Vendor will also resolve all the hardware problems detected during routine operational support activities and will ensure that the problems are resolved by repair or appropriate replacement as and when required.

vi. Data Security:

- ❖ The vendor shall not be allowed to add or delete the FPS dealer & beneficiary details data from the PDS server with the help of PoS machine. Only registered MAC id can functional within PDS System.
- ❖ The PDS System Transaction database will be encrypted along with code provided by the NIC data recovery processing and back up provision should be there in device and done by the vendor.

vii. Training:

- ❖ The vendor should provided hands on training to the 59 FPS dealers and minimum 10 (ten) departmental official for familiarizing them in operating the PoS devices during relative online/offline transactions at FPS.

4. TERMS AND CONDITIONS

1	RFP documents should be downloaded from website fcp.bih.nic.in or receive from Food and Consumer Protection Department, Bihar as per the dates mentioned in the RFP.
2	Late submission will not be entertained and will not be permitted.
3	Incomplete or conditional bids will be summarily rejected.
4	The vendor shall bear all costs associated with the preparation and submission of its Proposal and Food and Consumer Protection Department, Bihar will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the proposal process.
5	Tender shall be submitted separately under Two Bid System viz Technical bid & Financial bid, as per the prescribed formats only. Failure to comply with these requirements may result in the bid being rejected.
6	The tender fees shall not be refunded.
7	The Technical Bid and the Financial bid as per Annexure –“A” and Annexure-“B” to be submitted with a hard copy of the Technical Bid along with the DD mentioned in the Technical Bid Format (Annexure-“A”) needs to be submitted to the address of the Principal Secretary, Food and Consumer Protection Department, Old Secretariat, Bihar, Patna , as mentioned in the RFP. The hardcopy of the technical bid along with DD shall be placed in single envelope superscripted as “Technical Bid and DD towards Tender No _____ for Purchase of Point of Sale terminals” and the due date of opening of the bid mentioned to be deposited at _____, _____ on or before the tender submission date.
8	If any vendor does not qualify in technical evaluation as per Annexure –“A”, the Commercial Proposal shall not be opened.
9	The price should not be mentioned in the Technical bid in any form or manner. In case the prices are mentioned in the technical bid, the offer will be liable for rejection.
10	The technical bid and financial bid will be opened on two different dates. The technical bid will be opened on due date as mentioned in the RFP document.
11	At any time prior to the deadline for submission of Proposal Food and Consumer Protection Department, Bihar may amend the RFP documents by issuing suitable corrigendum. Any corrigendum issued in this regard shall be uploaded on websites fcp.bih.nic.in and will be communicated through email to those companies who have already purchased the RFP document.
12	The EMD of successful vendor will be converted into security till the complete supply is made and all the services are provided as per the scope mentioned in RFP and will be refunded without any interest. The EMD of unsuccessful vendors will be returned after completion of tender process.
13	The vendors are expected to examine all instructions, forms, terms and other information in the RFP. Failure to furnish all information required as mentioned in the RFP or submission of a proposal not substantially responsive to the RFP in every respect will be at the vendor’s risk and may result in rejection of the proposal and forfeiture of the bid.
14	If the tenders opening day happens to be holiday, the same will be accepted and opened on the next working day.
15	The person signing the tender form (or any other document forming part of the contract) on behalf of another, shall be deemed to warranty that he has the authority to sign such documents and if, on inquiry it appears that the person so signing had no authority to do so, _____, may without prejudice to other civil and criminal remedies against the contract, hold the signatory liable for all costs and damages and forfeiture of the earnest money.
16	The attempt on the part of the vendor, to negotiate directly or indirectly, with the authority to whom the tender is being submitted or with the tender accepting authority, before the finalization of tenders, will make vendor liable for exclusion from the consideration of his/her tender.
17	Food and Consumer Protection Department, Bihar reserves the right to reject all or any tender without assigning any reason. Principal Secretary, Food and Consumer Protection Department, Bihar also reserves the right to cancel the bid process at any time prior to signing the contract and Food and Consumer Protection Department, Bihar will have no liability for above mentioned actions.
18	The approximate quantity to be purchased along with specifications required has been mentioned at Annexure “C” and Annexure “D” respectively. However, Food and Consumer Protection Department, Bihar reserves the right to modify the quantity as per requirements.
19	The Bids shall be valid for a period of minimum “ONE YEAR” from the date of submission of the bid. On completion of the validity period (1 Year), in case required, Principal Secretary, Food and Consumer Protection Department, Bihar may solicit the vendor’s consent to an extension of the period of validity. The request and the responses thereto shall be made in writing by post or email.

20	The successful vendor on submission of PBG will be issued an order towards Pilot Phase Rollout in Noorsarai Block.				
21	The proposal submitted by the Bidder shall comprise the following documents: 1) All documents as per the Technical Bid Format (Annexure "A") of RFP and along with all attachments/schedules duly completed and duly signed by the authorized signatory of the bidder/consortium. 2) The bidders Financial proposal as per the Financial Bid Format (Annexure "B") of the RFP duly signed by the authorized signatory of the bidder/consortium.				
22	In the event of the bidder engaging in any corrupt or fraudulent practices during the bidding process, by the judgment of Principal Secretary, Food and Consumer Protection Department, Bihar the bid will be rejected. For the purpose of this clause: "Corrupt Practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a selection committee official in the selection process. It also includes bringing undue influence through any quarter or interfering directly or indirectly in the selection process to affect its outcome. "Fraudulent Practice" means a misrepresentation of facts in order to influence selection process to the detriment of Food and Consumer Protection Department, Bihar				
23	The vendor shall not perform any kind of promotion, publicity or advertising etc. in Bihar state , its field offices and FPSs through any kinds of hoardings, banners or any other media.				
24	Penalty. Delay in Implementation: A penalty of 5% of the relevant phase shall be levied on the contractor for every delay of one week in execution of the project. Uptime in Implementation An uptime of 99.99% is expected from the bidder. User may make a complaint about the POS devices and other peripherals / accessory and software /service through letter, fax, email, phone, SMS or any other means as the user thinks fit or convenient to the service center of vendor. Vendor shall provide contact numbers/ e-mail IDs clearly on stickers to be displayed on the POS Devices. On receiving complaint about the non functionality of the POS due to software or hardware problems the Vendor shall respond/ repair/ resolve or provide required services within the period as stated below.				
		Location	Response Period	Resolution period	Penalty for Downtime
		Noorsarai Block	1hr	1hr	@0.25% of the relevant phase for delay of every 2 hrs subsequent to the permitted Resolution period
25	If the successful bidder fails to execute the project as per the schedule (Annexure "C") and Terms & Conditions of the agreement executed, a penalty at the rate of maximum 10% of total contract value shall be levied on the contractor, which shall be recovered from the security deposit or from the payment to be made to the contractor and the contract may be terminated at the risk and cost of the contractor. However, the decision regarding the quantum of penalty shall vest with EMD .				
26	The bidder has to ensure that all work force provided is insured as per the company's rules/guidelines. It is the responsibility of the bidder to ensure all safety precautions are taken for their staff during the installations. In no case Food and Consumer Protection Department, Bihar will be responsible for any mishappenings.				

27	<p>CONSORTIUM CRITERIA</p> <p>The following are the requirements for a Consortium:</p> <ul style="list-style-type: none"> • The number of members in a consortium shall not be more than three (3) .However, the prime bidder shall individually qualify the Pre-qualification criteria and be solely responsible for all implementation of the entire scope of the project; • The bid should contain details of all the members of the consortium including their legal status and specify their roles and responsibilities in the project; • In case of a consortium, applicant consortia shall have a valid Memorandum of Understanding (MoU)/ agreement among all the members signed by the Chief Executives/ Authorised Signatories of the companies dated prior to the submission of the bid. The MoU/ agreement shall clearly specify the stake of each member and outline the roles and responsibilities of each member. The MoU/ agreement shall be exclusively for this project and shall be responsible in case of failure by any member; • All Consortium partner(s) should be registered in India and must have company registration certificate, registration under Labour Laws Contract Act, valid sales tax registration certificate and valid service tax registration certificate • Consortium partners participating in the bid along with one prime bidder should not be a consortium partner to any other prime bidder or should not participate as a prime bidder against this RFP. If found so, all bids of these bidders will be liable to be rejected • The consortium shall be evaluated based on the lead bidder's strength as defined in this bid document. Once short listed in pre-qualification, change of consortium shall not be allowed. MSA will be signed with lead bidder only, in case of consortium
28	<p>Period of Project</p> <p>The selected Agency will make available all the POS devices in working condition after installation/commissioning and testing at the respective locations 2 days prior to the date of commencement of the Project as per the schedule at Annexure –“C” for necessary trial runs. Total period of the project will be 3 Years.</p>
29	<p>Payment Schedule:70% payment will be made to the successful bidder after deployment and successful initial operation of POS Machine.Rest 30% payment to the successful bidder shall be made after successful completion of the pilot project. All payments would be made after deductions calculated based on any penalties if applicable.</p>
30	<p>The make / brand of the quoted POS devices must be mentioned and must comply to the specifications and standards mentioned in this RFP.</p>
31	<p>Any dispute, arising out of this contract will be under the jurisdiction of Patna Court.</p>
32	<p>Cost towards repairs of any damages to the equipment during transportation or installation by the bidder will have to be borne by the bidder.</p>
33	<p>The bidder is fully responsible for handling of the equipments and making sure that all POS equipments are kept safely. If any equipments get damaged that will be rectified by the bidder at his own cost.</p>
34	<p>A detailed contract will be signed with the successful bidder within 15 days of issue of work order.</p>
35	<p>Food and Consumer Protection Department, Bihar would in no way be responsible for any issues, litigations, or legal implications arising if at all due to use of any pirated software by the vendor. The complete onus and responsibility of any such consequences would be on the vendor.</p>

ANNEXURE "A" (TECHNICAL BID FORMAT)

The Bidder/ Prime Bidder (in case of consortium) needs to fulfill all the prequalification criteria mentioned below to technically qualify for the bid. The technical bid should contain the following documents:-

Sr No	The Bidder / Prime Bidder (In case of consortium) shall satisfy all of the criteria below	Supporting Document Required
1	Bidder/ Prime Bidder (in case of consortium), should submit the RFP payments in the form of Demand Draft from any Nationalized/scheduled bank, payable at Patna, submitted with technical Document in the office of Additional Secretary, Food and Consumer Protection Department, Bihar.	a) A Demand draft of Rs. 150000/- (Rupees One Lac Fifty Thousand only) drawn on any Nationalized / Scheduled Bank in favour of Principal Secretary, Food and Consumer Protection Department, Bihar payable at Patna, towards Earnest Money Deposit (EMD) b) A Demand Draft of Rs. 1000/- (Rupees One thousand only) drawn on any Nationalized / Scheduled Bank in favour of Principal Secretary, Food and Consumer Protection Department, Bihar payable at Patna towards Cost of RFP document.
2	Bidder/ Prime Bidder (in case of consortium), should have executed at least 1 similar Project** in PDS in India supplying minimum 200 POS terminals and should be running successfully for the last 6 months.	Purchase Order and Certificate from the client specifying no. of POS, Period of successful implementation, Department and State.
3	The Bidder / Prime Bidder (in case of consortium) should be a registered company with an office for operations. The company should be operational for at least the last three financial years as on 1st Sep 2016. The Bidder / Prime Bidder (in case of consortium) has to be a single legal entity.	Certificate of Incorporation/ Registration and proof of Income Tax ,Sales Tax, Service Tax and VAT Registration number(As applicable)
4	The Bidder / Prime Bidder (in case of consortium) must have an office in patna or should furnish an undertaking that the same would be established within two weeks of signing the contract.	Undertaking to be provided /Agreement /Electricity bill
5	The Bidder / Prime Bidder (in case of consortium), must have an annual turnover of not less than Rs. 1 crore in each of the last three financial years.	Audited/Certified Annual Financial Statements in the form of balance sheet and P & L account. Annual Report for the preceding three financial years
6	Bidder/ Prime Bidder (in case of the consortium) and all of the consortium partners, should not have any of their contracts terminated/blacklisted in the Last Three years by any State or Central Government/PSU/BFSI/Private Sector.	Affidavit Duly notarized to be submitted for the bidder and all the consortium partners

**Similar Project: supply, installation including maintenance of POS Devices with required software for POS

ANNEXURE-“B”- (FINANCIAL BID FORMAT)

Sr No	Item	No of POS required	Rates per unit inclusive of all taxes	Amount
1	Point Of Sale Terminals with manpower for implementation and all services as per the scope of work mentioned in the RFP.	59`		
Total amount (Rs):				

Total amount in words (Rs): _____

Financial Bid Terms and Conditions:-

1. Rates mentioned should be inclusive of all taxes, insurance, packaging, transportation to all locations, installation /un-installation and all charges towards execution of all activities as per mentioned scope of work.
2. Rates mentioned should include cost of technical support, manpower resources and any buffer POSs required for uptime.
3. The mentioned approximate quantity of POS Devices may vary. All payments would be made only towards actual number of POS devices purchased.
4. The bidders must use only the format provided in the e-tender website (Annexure-B) for submitting the financials. Any other formats/ forms will not be accepted and such tenders will be rejected.
5. The bidder must provide the Commercial Proposal in e-tender mode only. Hardcopies of the Commercial proposals are not entertained.
6. The rates should be quoted in figures as well as in words, on the form attached at Annexure-‘B’ and duly signed and stamped by the authorized person.
7. The tender should be valid for a minimum period of one year.
8. All rates/amounts to be strictly mentioned in INR only.
9. Prices quoted must be firm and final and shall not be subject to any upward modifications, on any account whatsoever.

ANNEXURE “C”- REQUIREMENTS & SCHEDULE OF POS TERMINALS

Block	No of FPS	No of POS	Date of Commencement	Date of Completion
Pilot Phase Rollout for Noorsarai				
Noorsarai	59	59	T*	T+2 months
Total	59	59		

* T is 30 days after the LOI is issued

ANNEXURE "D"- TECHNICAL SPECIFICATIONS OF POS DEVICES

S. No	Parameters	Specification
1	Processor	High Speed Arm Cortex A9 Processor with 600 Mhz or higher
2	Operating System	Preferably Linux Operating system(Latest Stable Kernel)/Android 4.0 or higher/Windows 8 Device operating system should support HTML5 based web browser and CSS 3
3	Memory	256 MB RAM or Higher / 1GB flash memory
4	Expansion slot	Micro SD slot, Supporting upto 8 GB
5	Communication	GSM/ GPRS/Ethernet/PSTN
6	Interface	RS -232, USB 2.0(full speed) Host and client
7	Display	3.5 inch color QVGA(320 X 240) 260 K Colors, TFT display, Touch screen
8	Touch Panel	Resistance
9	Key Pad	QWERTY keypad
10	Battery	Rechargeable 7.4V,2600MAH, Li-ion(8 hrs battery backup)
11	SIM and SAM Slot	Single SIM, Dual SIM is optional, 2 SAM slots
12	Printer	3" thermal printer / 2" thermal printer (Supports all regional language printing & bar code printing)
13	Audio	Speaker, support of all regional language announcements
14	Camera	3 Mega pixel auto focus color camera
15	Finger Print Scanner	STQC Certified scanner / Non STQC Certified scanner suitable for Aadhar authentication
16	RFID Reader (Contactless)	Integrated RFID, ISO1443 A/B(MIFAIR, SCOSTA)
17	Smart Cards(Contact Type)	2 Nos of smart card Reader & Writer (SCOSTA complaint)
18	Operating Temp	0 to 50 C
19	Storage Temp	0 to 70 C
20	Humidity	5 to 95% RH non condensing
21	Dimensions	242 m x108mm x 32/64 mm
22	Bluetooth(optional)	Integrated Blue tooth Version 2
23	Magnetic card Reader (Optional)	Integrated MSR (Bi-directional, track 1,2,3, ISO 7810, ISO 7811, ISO 7813)
24	Barcode Reader(Optional)	Integrated 1D/2D reader or External 1D/2D Bar Code Reader
25	GPS (Optional)	Integrated GPS
26	Status Indication	Status indicators provides ease of use, indicators for connectivity(Presence or absence), signal strength, battery status etc.

ANNEXURE “E” - Use Cases of POS Application

Use Case I – Entitlement Withdrawal by Beneficiary at FPS

The beneficiaries selected list by means of Ration card no. display in the POS	Details (RC-01) are displayed on the screen. Member Names including name of the head are listed for selecting one member name. The name shall be in Unicode Hindi.
User selects one name who is taking the entitlements and puts the finger on the finger print camera. Presses the SUBMIT button	Ration Card Number, Member Name, Finger print template, Bio authentication takes place. POS ID shall be sent to the central server through GPRS. Ration card number, Member Name, finger print template, date, POS ID are stored in a transaction table. Ration Card Number is searched in the food account table and balance entitlements are read and displayed on POS device screen. Text boxes are displayed against each commodity to enter commodities to be withdrawn as shown in the screen
User enters the commodities to be withdrawn and presses SUBMIT button	POS ID, Commodities to be withdrawn, Ration Card number, are sent to server through GPRS. Transaction ID. Ration Card number, Commodities withdrawn are saved in the transaction table. Food balances are reduced with the quantities withdrawn. Success report is displayed on the POS screen.
User prints the receipt. Handovers the commodities to the beneficiary,	

Case II – Offline issue when there is no connectivity

It is expected that there may be problems in the connectivity sometimes and online authentication and check for balance PDS commodities is not possible. In those situations, beneficiary should not be denied issuance of PDS commodities but should be issue offline.

User selects ‘Offline Issue Button’	System checks for GPRS connectivity and if there is no connectivity the system will generate beneficiaries list from the Aadhaar authenticated data stored in PoS Machine.
The beneficiaries selected list by means of Ration card no. display in the POS	Ration Card detail read and name and member details are displayed on the screen.
Member is selected and Member puts the finger on the screen	Bio authentication will be done/OTP send to the registered mobile no.
	A screen appears asking for entry of PDS Commodities to be issued.
User enters the quantities to be issued and Presses enter.	Receipt is generated after storing the Quantity details with some flag in the printed receipt of the beneficiary as well as manually write on the FPS card with some unique transaction id No also generate SMS to the beneficiary mobile no.
When beneficiary card flagged to indicate offline issue, is inserted in any POS, the details are to be updated on the central server, if the transaction has not yet been updated from FPSIC. Beneficiary card offline issue flag will be updated	

When FPSIC flagged to indicate offline issue is inserted in any POS with connectivity all the offline transactions stored in the card will be updated in the server. If any transaction has already been updated from beneficiary card it will not again be updated. Off line issue flag will be updated accordingly.	
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