

TENDER DOCUMENT

For

**ELECTRICAL WORKS FOR KODUVAZHANOOR SCB JACKFRUIT VALUE
ADDITION UNIT****PREAMBLE**

PROJECT : KODUVAZHANOOR SCB JACKFRUIT VALUE ADDITION
UNIT – ELECTRICAL WORKS

LOCATION : KODUVAZHANOOR SERVICE CO-OPERATIVE BANK
LTD-NO.3144
KODUVAZHANOOR POST THIRUVANANTHAPURAM,
KERALA, PIN - 695612.

COMPLETION : WITHIN 10 WEEKS FROM DATE AGREEMENT

CONTENTS

ARTICLE	DESCRIPTION	PAGE
V1.1	DEFINITIONS	
V1.2	TENDER CONDITIONS ELIGIBILITY / QUALIFICATION	
V1.3	FORM OF TENDER	
V1.4	GENERAL CONDITIONS	
V1.5	CONDITIONS	

for Koduvazhanoor Service Co-Operative Bank

Place : Koduvazhanoor

Date : 24.03.2025



[Signature]
Koduvazhanoor Service Co-Operative
Authorised Signatory
Koduvazhanoor P.O., Pulimath-695 612

ARTICLE 1

DEFINITIONS

For this Tender, terms set forth in **Article 1.1**, when employed in singular or plural form, are defined to mean, unless the context otherwise requires, the following.

- 1.1 **Project** means Electrical work for **Jackfruit Value Addition Unit** of **429.55 M²** as per Permit No. A4_BA(230778)/2024 and the specifications are given as Annex 1 at the premises of **Koduvazhanoor Service Co-Operative Bank Ltd-No.3144, Koduvazhanoor Post, Thiruvananthapuram, Kerala Pin - 695612.**
- 1.2 **Electrical Work** means providing electrical drawings and materials and completing wiring for the **Jackfruit Value Addition Unit**, which includes lighting for the whole building etc., as detailed in the **Drawing** with Permit No. A4_BA(230778)/2024 attached as Annex.1.
- 1.3 **Bidder/Contractor** means, the Eligible Person / Firm / Co-operative Society or Company who had tendered for the **Project** and has been selected to undertake completion of the **Project.**
- 1.4 **Offer** means sealed offer based on this Tender No. AGAI 2409_T5/2025 from **Bidder/Contractor** for undertaking **Electrical works for Jackfruit Value Addition Unit.**
- 1.5 **Contract Document** means and includes, Tender Document and acceptance thereof, including conditions, specifications, designs, drawings, and formal **Agreement.**
- 1.6 **Contract Value** means the fixed amount, **including all taxes** and duties, offered by the **Bidder/Contractor** to complete the **Electrical Work.**
- 1.7 **Earnest Money Deposit (EMD)** (equivalent of 1 % of **Contract Value** by Demand Draft from a Scheduled Bank, to be submitted along with the **Offer**) is to ensure that the **Bidder/Contractor** does not submit a dummy **Offer** or back out at the time of Tender opening.

EMD provided by the successful **Bidder/Contractor** is retained against the **Security Deposit.** In the event of a successful **Bidder/Contractor** backing out, the respective **EMD** is forfeited.

EMDs from unsuccessful **Bidders/Contractors** are returned within 15 days from the date of opening of the **Tender**
- 1.8 **Time of completion** means the period in which the **Electrical Work** of the **Project** is to be completed from the date of signing the **Agreement.**
- 1.9 **Project Officer** means the executive, duly authorized by **Koduvazhanoor Service Co-Operative Bank** as in charge of the execution of **Electrical Works** of the **Project** and to whom the **Bidder/Contractor** will report all technical aspects of **Electrical Design, Materials, and work.**
- 1.10 **Certificate of Practical Completion** is the certificate issued by the **Project Officer**, confirming that the **Bidder/Contractor** has **completed** the contractual obligations as per the **Offer.**



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1.11 The defect liability period of 12 months is a period of time following **Practical Completion**. If any defect during this period is observed and notified by the **Project Officer**, the **Bidder/Contractor** shall rectify the same at his cost.

1.12 **Performance Guarantee** of 2 % of **Contract Value** and for a period of 12 months from the date of **Completion Certificate**, is against due and faithful completion of **Project**.

After adjusting the **EMD**, the balance of the **Performance Guarantee** may be recovered by a percentage deduction from the successful **Bidder/ Contractor's** respective "on account" bills.

1.13 **Performance Guarantee** amount shall be returned to the **Bidder/Contractor** after the expiry of the **Defects liability period**, (subject to the **Bidder/Contractor** rectifying defects, if any during the period) against **No Claim Certificate** issued by the **Project Officer**.

1.14 **Agreement**, which is part of **Contract Documents**, means the formal Agreement executed between the **Secretary, Koduvazhanoor Service Co-Operative Bank**, and **Bidder/Contractor**. The agreement will govern all terms and conditions of completion of the **Project**.

1.15 **Building Drawing**, which is part of **Contract Documents**, means **Dwg.No. LSGD 1.1A/Approved Drawing** of the building on which **electrical works** are to be completed.

1.16 **Specifications** mean the specifications provided along with the tender by the bidder for Electrical works and Materials specified in the **Tender** which may be amplified, added to, or superseded by written instruction of the **Project Officer** during the **Time of Completion**.

ARTICLE 2

TENDER CONDITIONS

2.1 ELIGIBILITY / QUALIFICATION

Bidder/Contractor must have Experience in Electrical design and completion for Industrial Buildings and should have completed Electrical Design and Execution at least one Industrial building within the last three years.

If so desired by **Koduvazhanoor Service Co-Operative Bank**, the **Bidder/Contractor** will make arrangements for the **Project Officer** to see the Building.

2.2 Permissions/Approvals

Bidder/Contractor must have all necessary statutory and valid Permissions/Approvals as well as Registration for WCT (Work Contract, Tax), Service Tax, etc., necessary, to undertake the **Project**.



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2.3 Electrical Materials

Materials as per specifications in the Tender and brought on-site by the **Bidder/ Contractor** shall be used in Electrical Work only after the inspection and approval by the **Project Officer**

ARTICLE 3

FORM OF TENDER

3.1 Competence

If the **Bidder/Contractor** is,

an individual, the **Offer** shall be signed with full name and complete address, both permanent address and communication address.

a partnership firm, the **Offer** shall be signed by the Managing Partner of the firm. A notarized copy of the Registered Partnership Deed of the firm shall be submitted along with **the offer**.

a company incorporated under the Companies Act (1 of 1956), the **Offer** shall be signed by its Managing Director duly authorized on their behalf and shall bear the official seal of the company.

3.2 Covering Letter

Offer shall have a covering letter, signed and sealed, in the following format, typed in the letterhead of **Bidder/Contractor**.



[Signature]
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TENDER NO.AGAI 2409_T5/2025

Ref:

From.....

To.....

Date:.....

Sub: Offer for Electrical Design, Supply, and Execution of Jackfruit Value Addition Unit against Tender No. 2409_T5/2025

Dear Sir,

I/We hereby submit an Offer for electrical design, supply, and execution of the Jackfruit Value Addition Unit for Koduvazhanoor Service Cooperative Bank.

Contract Amount	– Electrical design, Supply, and Execution for Jackfruit Value Addition Unit inclusive of taxes	Rs. lacs
	Packing & forwarding charge	Rs. lacs
	Freight & Transit Insurance	Rs. lacs
Delivery	– withinDays from the date of the Agreement	
Completion	– withinDays from the date of the Agreement	
Guarantee Period	–Years from the date of Practical Completion	
Earnest Money Deposit	– Rs.lakhs Rs.....lakhs	
	1 % of Contract Value) by DD No..... dated	
from.....	
Validity of Offer	– 30 days from the date of the Offer	

Should this Offer be accepted, I/We hereby agree to abide by and fulfill all the terms and conditions and execute all the works referred to in my/our Offer. If I /we fail to commence the work by the specified date mentioned above, I/we understand that my/our contract may be canceled.

Yours faithfully,
for
Authorised Signatory

Attachments: Detailed Offer

Annex. 1 Copies of Completion Certificate/s

Annex. 2 Approvals/Permission s/Registration

Place: **Koduvazhanoor**

for

Koduvazhanoor Service Co-Operative Bank

Date. 24.03.2025



Authorized Signatory

SECRET
Koduvazhanoor Service Co-Operative
Bank Ltd.No.3144
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**TENDER SCHEDULE FOR ELECTRIFICATION OF
INDUSTRIAL UNIT OF KODUVAZHANOOR
SERVICE CO-OPERATIVE BANK LTD. No. 3144**


NAME OF CONTRACTOR / FIRM	
NAME OF AUTHORISED PERSON	
CONTRACT LICENSE NO. AND VALIDITY	
NAME OF SUPERVISOR	
SUPERVISORY PERMIT NO. AND VALIDITY	
OFFICE TELEPHONE NO.	
PERSONAL TELEPHONE NO.	
MOBILE PHONE NO.	
WHETHER REGISTERED WITH ELECTRICAL INSPECTORATE IF YES FURNISH VALIDITY.	
INDUSTRIAL PROJECT WORKS CARRIED OUT BY THE CONTRACTOR	
NAME OF PROJECT	NAME OF CLIENT
1	
2	
3	
4	

IMPORTANT

1. The Contractor shall submit their Terms & conditions , Payment terms, Validity and expected duration for completion of work along with the quotation.
2. The Contractor shall specify the make of materials that he proposes to use for the installation of this work .
3. The Terms and Conditions shall be finalized after discussions and mutual acceptance of the same by the contractor and the client along with the finalization of the work order.
4. Completed offers shall be submitted with in 5 days from the date of receipt of this schedule.
5. The Authorised person shall sign on all the pages of this quotation.
6. For Any clarification regarding this tender schedule please contact the consultant M.V.DILEEP at Mob.:9447410318 or 8921282648

SIGNATURE OF THE CONTRACTOR'S AUTHORISED PERSON WITH SEAL AND DATE




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KODUVAZHANOOR SERVICE CO OPERATIVE BANK LTD. No. 3144		DILEEP M.V ELECTRICAL CONSULTANT		
DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<u>MV INSTALLATIONS POWER</u>				
1. DG SET				
1.1 Leading, erection, testing and commissioning of 125 KVA, 3 Phase, 415V Diesel Generator set complete in all respect as per the CPCB, KSEB and Kerala State Electrical Inspectorate standards. DG set along with GCP will be supplied by the client.				
LABOUR	Each	1		
1.2 Leading, erection, testing and commissioning of 160 KVA, 3 Phase, 415V Diesel Generator set complete in all respect as per the CPCB, KSEB and Kerala State Electrical Inspectorate standards. DG set along with GCP will be supplied by the client.				
LABOUR	Each	1		
1.3 Supply erection and commissioning of additional length of exhaust pipe with long radius bend from residential silencer with necessary clamps and fixtures and carrying out the civil works associated with it, Thermal cladding required as per standards and painted with heat resistant rust proof bituminous paint of approved colour to a maximum of 12 mtr, height including suitable rain cap. All the works should be carried out as per the relevant standards and as instructed by the engineer/ consultant				
1.3a 4" dia B class MS PIPE	Mtrs	8		
1.3b 6" dia B class MS PIPE	Mtrs	8		




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2. PANEL BOARDS

Design Fabrication Supply, Erection, Testing and Commissioning of cubicle type fully compartmentalized dust and vermin proof free standing LT Switch board, fabricated out of 16 swg. CRCA sheet, chemically treated and powder coated with appropriate colour shade. The Switch Boards should have a set of suitably rated TPN Al. Bus bar with specified current rating and short circuit capacity, Insulated with Heat Shrinkable color coded PVC sleeves and bus bar supports. The MCCBs shall be with minimum 25 KA rating and over current settings as per the approved drawing from the Inspectorate and with spreader and rotary operating handle with defeat switch for door interlock. All gaskets and door beading shall be high quality neoprene, door knobs shall be quarter turn type. Any control wiring inside the panel shall be with minimum 1.5 sq. mm. PVC insulated FRLS copper wires with MCB protection. Suitable feeder identification shall be provided for all the connections. A detailed Feeder identification labels indicating all the parameters as per the approved / as fit drawing . Where ever required the meters and CTs shall be got tested in approved Labs and test certificates shall be furnished. The design should be as per the Kerala State Electrical Inspectorate and KSEBL Standards and consisting of the following.

2.1 METERING PANEL

250A TPN Al. BUS BAR with 25x3 mm. cu. Strip as earth bus and SPD – 1No.
Incomer -1 (KSEB)
200A 4 pole thermal magnetic type MCCB with spreader and handle – 1No.
3 Phase CT Metering provision – 1No.
Earth Leakage Relay using CBCT - 1 Set
250 A Neutral link -1No., Indicating lamps –1set.
2A SP MCBs -3 Nos.

Incomer -2 (SOLAR)
100A 4 pole thermal magnetic type MCCB with spreader and handle – 1No.
3 Phase CT Metering provision – 1No.
100 A Neutral link -1No. Indicating lamps – 1 set.
2A SP MCBs -3 Nos.

Outgoing
200A TPN thermal magnetic type MCCB with spreader & handle.
Indicating lamps – 1 set., 2A SP MCBs -3 Nos.
Fully compartmentalized and with provision for KSEB sealing facility.

SUPPLY CHARGES

Each 1No.

INSTALLATION CHARGES

Each 1No.



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2.2 MSB Same as above but with 250A TPN Al. BUS BAR with 25x3 mm. cu. Strip as earth bus with Incomer- 200A Four pole Isolator – 1 No R Y B Indicating lamp -1 set. 1No. Basic Multifunction meter for indication of Voltage, Current, Frequency, PF and Power Fully wired, 2A SP MCBs 6 Nos. SPD – 1No. And Outgoing 1 No. 125A,TP MCCB 1 No. 100A Neutral Link 3 Nos. 50A,TP MCCB 3 Nos. 50A Neutral Link 3No. 40A,TP MCCB 3 No. 40A Neutral Link 3 Nos. 25A,TP MCCB 3 Nos. 25A Neutral Link				
SUPPLY CHARGES	Each	1No.		
INSTALLATION CHARGES	Each	1No.		
2.3 APFC PANEL Same as above but with 100A TP Al. BUS BAR with 25x3 mm. cu. Strip as earth bus with Incomer 100A FP Isolator, R Y B indicating lamps – 1 set, Microprocessor based automatic power factor control relay with 6 step having in build facility for PF & switching time etc. working on 415V AC & 5A CT secondary current with RS 485 Communication interface. 0 – 500 V Volt meter with selector switch 0 – 150 A Ammeter with selector switch 150/5, 10VA, CL:1 CTs – 3 Nos. Outgoing-1 40A TP MCB – 1No. 10KVA Capacitor -1 No Capacitor duty contactor -1 No. Outgoing-2,3,&4 16A TP MCB – 1No. 5KVA Capacitor -1 No Capacitor duty contactor -1 No.(each 3 sets) Outgoing-5 10A TP MCB – 1No. 3KVA Capacitor -1 No Capacitor duty contactor -1 No Outgoing-6 10A TP MCB – 1No. 2KVA Capacitor -1 No Capacitor duty contactor -1 No.				
SUPPLY CHARGES				
INSTALLATION CHARGES				



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2.4 COS 200A Supply Installation Testing and Commissioning of 200A Four Pole Change Over Switch in SS enclosure on Wall Or suitable Metallic Frame				
SUPPLY	Each	1		
INSTALLATION	Each	1		
2.5 METERING CUBICLE Design, Fabrication, Supply Installation Testing and Commissioning of outdoor type Metering cubicle with 3 Nos. 250A Cut out fuse units, 1 No. 250A rated Neutral link, TOD type Energy meter with Suitable CTs, 1No. 250A Four Pole MCCB, SPD of suitable rating, Earth Leakage Relay using CBCT - 1 Set fully compartmentalized with sealing facility and completely wired as per KSEB standards (The Energy Meter and CTs alone will be supplied by the client)				
SUPPLY	Each	1		
INSTALLATION	Each	1		
2.6 ATeS Supply Installation Testing and Commissioning of 200A Four Pole ATS in suitable enclosure with over current, over voltage , phase detection and AMF relays indicating lamps, fully wired to Automatically start the 125KVA DG set in the event of Mains Failure.				
SUPPLY	Each	1		
INSTALLATION	Each	1		
3. DISTRIBUTION BOARDS				
3.1 VDB 3 (LIGHT) Supply Erection, Testing and Commissioning of recessed Three phase 4Way double door type MCB Vertical Distribution Boards with 1No.40A MCB Isolator and 1 No. 40A, 30mAELCB, as incomers and 4 Nos. 16/25/32 TP MCBs as outgoing				
SUPPLY	Each	1No.		
INSTALLATION	Each	1No.		
3.2 PLANT VDBs (1&2) Supply Erection, Testing and Commissioning of recessed Three phase 8 Way double door type MCB Vertical Distribution Boards with 1No.100A MCB Isolator and 1 No. 100A,100Ma ELCB as incomer and 8 Nos. 6/10/16A TP MCBs as outgoing				
SUPPLY	Each	2No.		
INSTALLATION	Each	2No.		





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3.3 LIGHTING DB Supply Erection, Testing and Commissioning of recessed Three phase 4 Way double door type MC Distribution Boards with 1No.32A MCB Isolator and 1 No. 25A,30Ma ELCB as incomer and 12 Nos. 6/10/16A TP MCBs as outgoing				
SUPPLY	Each	4No.		
INSTALLATION	Each	4No.		
4. MOTOR STARTERS				
4.1 Supply,Fixing, Testing and Commissioning of DOL/ SD/ Soft or any other type of Motor Starter supplied by the Client on Suitable angle iron frame, or sheet metal up to and including 10kw.				
SUPPLY	Each	8Nos.		
INSTALLATION	Each	8Nos.		
4.2 Supply, Fixing, Testing and Commissioning of DOL/ SD/ Soft or any other type of Motor Starter supplied by the Client on Suitable angle iron frame, or sheet metal above 10kw up to and including 40kw				
SUPPLY	Each	4Nos.		
INSTALLATION	Each	4Nos.		
5. CAPACITORS Fixing, Testing and Commissioning of Three Phase Capacitors for power factor Improvement of the following ratings (Labor Charges only)				
5.1 1 KVAR	Each	1No		
5.2 2.KVAR	Each	1No		
5.3 3 KVAR	Each	1No		
5.4 4 KVAR	Each	1No		
5.5 5 KVAR	Each	1No		
5.6 6 KVAR	Each	1No		
5.7 7 KVAR	Each	1No		
5.8 8 KVAR	Each	1No		



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4. CABLE LAYING Supply, Laying, testing and commissioning of the following PVC /XLPE Insulated Armoured Aluminium L.T. Cables through excavated trenches, built up cable trenches, cable trays, hume pipes, including supply and fixing of clamps, nuts and bolts, screws, identification tags, route markers etc. required for clamping intervals as necessary				
3.5 x 240 Sq.mm	Mtrs	1		
3.5 x 185 Sq.mm	Mtrs	55		
3.5 x 150 Sq.mm	Mtrs	40		
3.5 x 95 Sq.mm	Mtrs	1		
3.5x 70 Sq.mm	Mtrs	1		
3.5 x 50 Sq.mm	Mtrs	1		
3.5 x 35 Sq.mm	Mtrs	42		
3.5 x 25 Sq.mm	Mtrs	1		
3 x 25 Sq. mm	Mtrs	1		
3 x16 Sq. mm.	Mtrs	1		
3 x10 Sq. mm.	Mtrs	210		
3 x6 Sq. mm.	Mtrs	1		
3 x4 Sq. mm.	Mtrs	1		
4 x16 Sq.mm	Mtrs	50		
4 x 10 Sq.mm	Mtrs	70		
4 x 6 Sq.mm	Mtrs	1		
4 x4 Sq.mm	Mtrs	1		
3 x 4 Sq. mm COPPER	Mtrs	1		
3 x 6 Sq.mm COPPER	Mtrs	1		
3 x 10 Sq.mm COPPER	Mtrs	1		
2x4 Sq. mm. COPPER UNARMoured	Mtrs	1		
2x6 Sq. mm. COPPER UNARMoured	Mtrs	1		
2x10 Sq. mm. COPPER UNARMoured	Mtrs	1		
2x1.5 Sq. mm. COPPER UNARMoured	Mtrs	1		
2x2.5Sq. mm. COPPER UNARMoured	Mtrs	1		
3x1.5 Sq. mm. COPPER UNARMoured	Mtrs	1		
3x2.5 Sq. mm. COPPER UNARMoured	Mtrs	1		


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5. CABLE TERMINATION Supply of all materials and termination of the following sizes PVC Insulated Armoured Aluminum/ Cu. L.T. Cables using single compression type cadmium plated brass cable glands, Aluminium/Copper crimping type cable lugs cable identification tags and including gland earthing using copper conductor of adequate size.				
3.5 x 240 Sq. mm	Each	2		
3.5 x 185 Sq. mm	Each	4		
3.5 x 150 Sq.mm	Each	4		
3.5 x 95 Sq.mm	Each	2		
3.5 x 70 Sq.mm	Each	2		
3.5 x 50 Sq.mm	Each	2		
3.5 x 35 Sq.mm	Each	4		
3.5 x 25 Sq.mm	Each	4		
3 x16 Sq.mm	Each	2		
3 x10 Sq.mm	Each	40		
3 x6 Sq.mm	Each	2		
3 x4 Sq.mm	Each	2		
4 x16 Sq.mm	Each	4		
4 x10 Sq.mm	Each	16		
4 x 6 Sq.mm	Each	2		
4 x 4 Sq.mm	Each	2		
3 x 4 Sq.mm COPPER	Each	2		
3 x 6 Sq.mm COPPER	Each	2		
3 x10 Sq.mm. COPPER	Each	2		



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<p>6 EARTHING</p> <p>6.1 Supply, Installation, Testing & Commissioning of pipe earth station with 3000mm long, 38mm diameter G.I. pipe earth electrode, earthing strips, clamps, funnel, terminal electrodes, etc. excavation in all classes of soil, filling with alternate layers of charcoal and salt and back filling, construction of earth pit inspection chamber and heavy duty CI chequered plates for earthing pit inspection chamber cover. The earthing station should conform to IS 3043/1987.</p>	Nos.	5		
<p>6.2 Earthing Conductors Supply and Laying, clamping at site of copper earthing conductors inclusive of providing earthing terminations and bracing of the terminations etc.</p> <p>6. 2.1 Supply and erection of 25 x 3 mm Cu. Earth bench for termination of earthing conductors.</p>	Nos.	5		
6.2.2 25 x 3 Copper Strip	Mtr,	40		
6.2.3 10 SWG Copper	Mtr,	200		
6.2.4 8 SWG Copper	Mtr,	10		
6.2.5 6 SWG Copper	Mtr,	15		
6.2.6 4 SWG Copper	Mtr,	1		
6.2.7 50 x 6 mm GI Strip	Mtr	1		
6.2.8 40 x 6 mm GI Strip	Mtr	16		
6.2.9 32 x 6 mm GI Strip	Mtrs	60		
6.2.10 25x 6 mm GI Strip	Mtrs	120		
6.2.11 50 x 10 mm GI Strip	Mtrs.	1		




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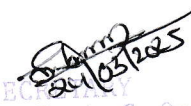
MV INSTALLATIONS LIGHTING	UNIT	QTY	RATE	AMOUNT
7. Conduit laying Supply and Labour charges for laying rigid PVC Electrical conduits of ISI grade, medium duty for laying through roof / floor, and light duty for laying through brick wall or hollow block wall. The work should also include fixing of fan hooks for fan points, junction boxes etc.. One pull out box shall be provided for every two bends and every 6 metres for 20 mm conduits and every 4 metres for 25mm / 32mm conduits.				
7.1 20mm dia rigid medium PVC conduits of ISI grade through roof casting using junction boxes, tees, elbows, connectors, fan hooks etc.	mtrs.	80		
7.2 25mm dia rigid medium PVC conduits of ISI grade through roof casting using junction boxes, tees, elbows, connectors, fan hooks etc.	mtrs.	70		
7.3 20mm dia rigid light PVC conduits of ISI grade through brick wall, hollow block wall including chipping of wall using junction boxes, tees, elbows, connectors, fan hooks etc.	mtrs.	400		
7.4 20mm dia. rigid light PVC conduits of ISI grade in open conduit system using necessary spacer saddle through brick wall, hollow block wall, ceiling using junction boxes, tees, elbows, connectors etc.	mtrs	250		
8. Point wiring Supply and Labour charges for point wiring for 230V AC circuits using PVC insulated copper wire with 16/14 SWG bare copper conductor for continuous earthing for the following items. The wiring should be done over the surface / open / concealed.				
8.1 1No. light point controlled by 1 No.6A SP switch.	Nos.	50		
8.2 1No. light point controlled by 2Nos.6A two way switch.	Nos	3		
8.3 1No. ceiling fan point along with 1No. 250 Watts electronic fan regulator controlled by 1No.6A SP switch.	Nos	6		




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8.4 1No. ceiling fan point along with 1No. 250 Watts electronic fan regulator controlled by 2Nos. 6A 2 way switch.	Nos	1		
8.5 1No. call bell point controlled by 1 No.6A bell push switch.	Nos	1		
8.6 1No. 6A socket outlet controlled by 1 No.6A SP switch in the switch board itself.	Nos	20		
8.7 1No. 6A socket outlet controlled by 1 No.6A SP switch in independent position.	Nos	8		
8.8 1No. 16A socket outlet controlled by 1 No.16A SP switch in the switch board itself.	Nos.	10		
8.9 1No. exhaust fan point controlled by 1 No.6A SP switch.	Nos	6		
9. Circuit wiring				
9.1 Supply laying and termination of two runs of 1.5 sq. mm PVC insulated copper wires along with one run of 16 / 14 SWG. bare copper as earth conductor through 20 / 25 / 32mm dia PVC pipe	Mtrs.	250		
9.2 Same as above but with 2.5 sq. mm PVC insulated copper wire	Mtrs.	400		
9.3 Same as above but with 4 sq. mm PVC insulated copper wire	Mtrs.	1		
9.4 Same as above but with 6 sq. mm PVC insulated copper wire	mtrs	1		
9.5 Same as above but with 10 sq. mm PVC insulated copper wire	mtrs	1		
9.6 Supply laying and termination of two runs of 4 sq. mm PVC insulated copper wires along with two run of 10 SWG. bare copper as earth conductor through 20 / 25 / 32mm dia PVC pipe.	mtrs	1		
9.7 Same as above but with 6 sq. mm PVC insulated copper wire	mtrs	1		
10. Electrical fittings Installation and testing of the following electrical fittings in complete with all termination and earthing.				
10.1 1x40W fluorescent tube light fitting	Nos.	15		
10.2 Bulk head fitting	Nos.	5		
10.3 Ceiling light fitting	Nos.	60		
10.5 Garden light fitting	Nos.	1		




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10.6 Gate light fitting	Nos.	2		
10.7 Ceiling fan	Nos.	6		
10.8 Exhaust fan	Nos.	3		
10.9 Wall light fitting	Nos.	4		
10.10 Mirror light fitting	Nos.	2		
11. MISCELLANEOUS ITEMS.				
11.1 Fabrication supply and erection of cable trays/ supports by using MS angles, flats etc including two coats of enamel paint over two coats of primer. Supply & Labour charges :		Kg	500	
11.2 Supply and erection of prefabricated cable trays of standard manufacturers including all required accessories of the following sizes (Supply & Labour charges)				
11.2.1	100mm	Mtrs.	1	
11.2.2	150mm	Mtrs.	1	
11.2.3	200mm	Mtrs.	1	
11.2.4	300mm	Mtrs.	1	
11.2.5	400mm	Mtrs.	1	
11.3 Supply and installation of 5KG Dry Chemical Powder type (DCP) fire extinguishers having ISI mark along with mounting supports.		Each	1	
11.4 Supply of Electrical Grade Rubber Mat		Each	1	
12. DOCUMENTS & APPROVAL				
Service charges for Preparation of necessary documents, forms, drawings, schemes, certificates, etc., and obtaining Approval from the Electrical Inspectorate for the installation. Submission of Completion report and arranging Inspection and obtaining Energisation Order from Electrical Inspectorate as well as obtaining service connection from KSEBL.		LS		
TOTAL				
TAX				
GRAND TOTAL				



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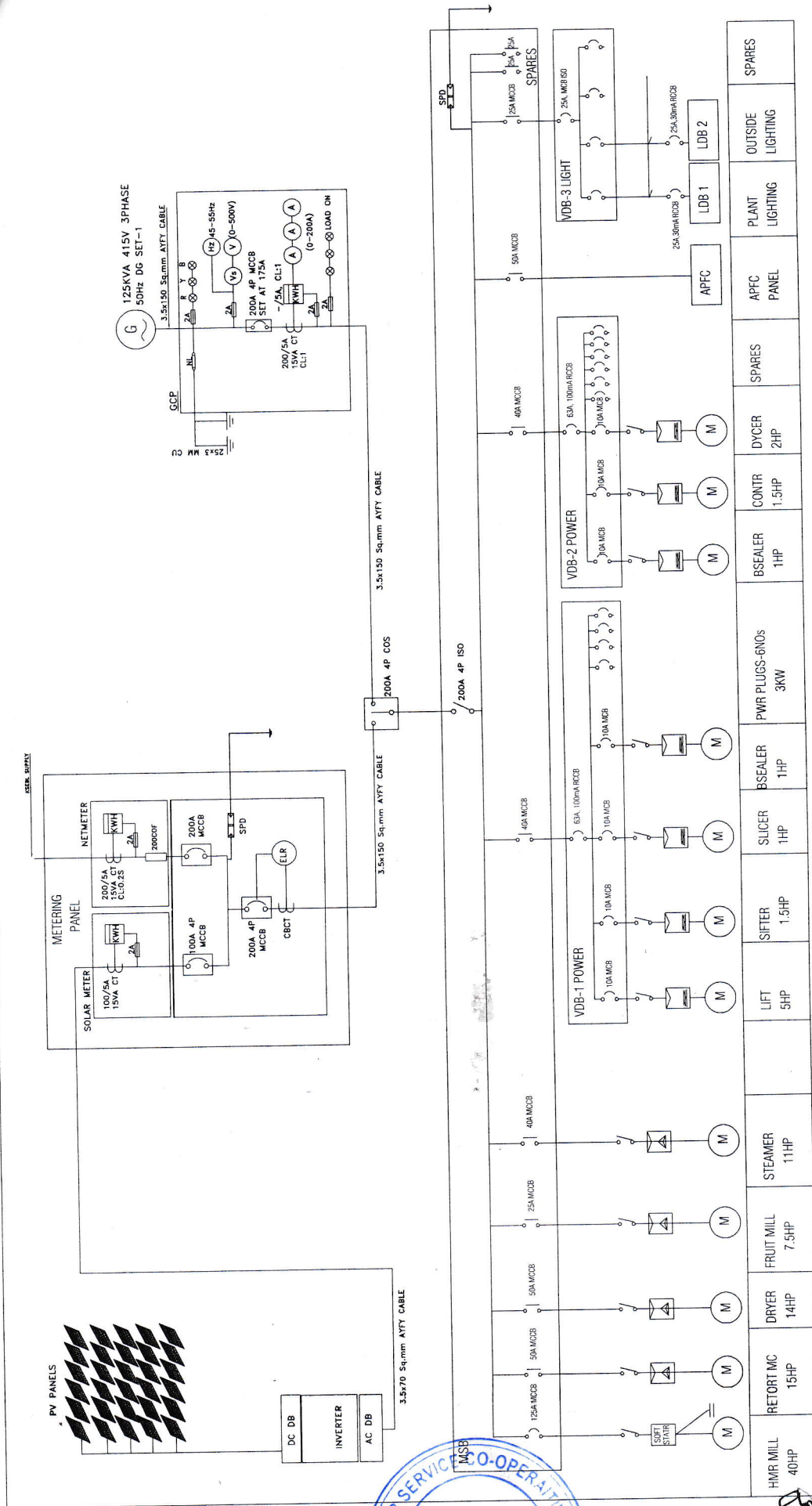
PREFERABLE MAKE OF MATERIALS

MCCB / MCB / DB / MET CLAD PLUG	L&T, LEGRAND / ABB / SCHNEIDER
METERS	L&T / ELMEASURE / SECURE
CTs	KALPA / SREEGANGA
CONTACTORS	L&T / BCH
SPD	EMERSON / L&T / OBO
RELAYS & CONTROLS	L&T / PHOENIX / TRNITY
CABLES	RR / POLYCAB / UNIVERSAL
WIRES	PLYCAB/RR /LAPP
MODULAR SWITCHES / PLUG SOCKETS	LEGRAND/ SCHNEIDER/GM/ ANCHOR PANASONIC / MK BLENZE
PVC CONDUITS	BALCO / KONCEAL
CABLE GLANDS	JAINSON/DOWELLS / HMI / MULTI
CRIMPING SOCKETS	DOWELLS / MULTI / LOTUS
SWITCH GEARS / SFUs / ISOLATORS/ COS	L & T / ABB / MITSUBISHI
CAPACITOR	L & T / SHREEM / BCH
HINGES / LOCKS /BEEDINGS	N-RACK
CRCA SHEETS FOR FABRICATION OF PANELS AND ENCLOSURES	TATA / JINDAL
BUS BAR	JINDAL

NOTE

The contractor may specify the make of materials that they prefer to use for this project other than the makes indicated above


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ELECTRICAL SCHEMATIC DRAWING

CLIENT

SERVICE CO-OPERATIVE BANK LTD.,
KODUVAZHANOOR, THIRUVANANTHAPURAM

ELECTRICAL CONSULTANT

DILEEP M.V.
NORTH PARAVUR
ERNAKULAM, PIN-683520
Email: dileepmv780@gmail.com
Mob: 9447410318, 8921282648

Rev. No.

DATE:

DRAWN

SNEHA

CHECKED

DILEEP

APPROVED

DATE

SCALE

NTS

DRG. No.

KDZ/H/1

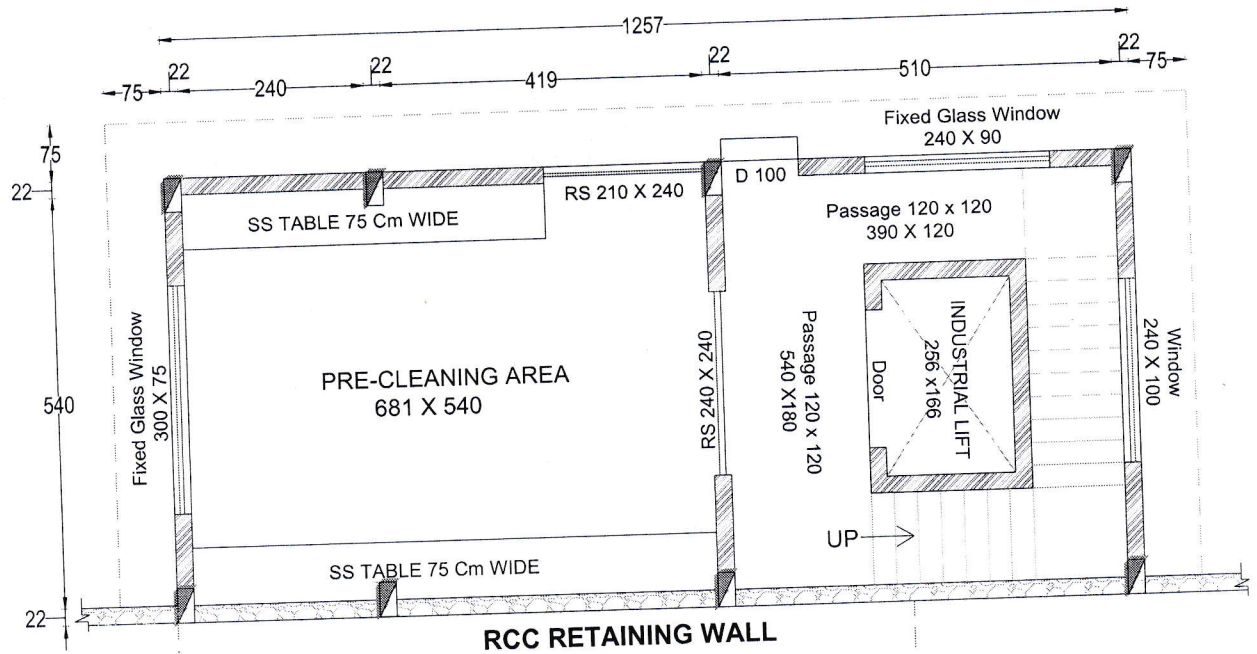
DATE

15-03-2025



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Koduvazhanoor P.O., Pulimath-695 612

BUILDING FLOOR PLANS -KODUVAZHANOOR SERVICE CO-OPERATIVE BANK

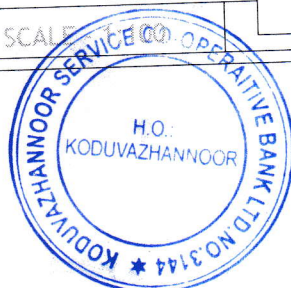


BASEMENT FLOOR
 AREA: 73.38 SQM
 780 SQ.FEET

FLOOR PLAN AREA DETAILS	
BASEMENT FLOOR -	73.38 m2 , 780 SQ.FEET
GROUND FLOOR -	162.33 m2 , 1747 SQ.FEET
FIRST FLOOR -	162.33 m2 , 1747 SQ.FEET
TERRACE FLOOR -	32.35 m2 , 348 SQ.FEET
TOTAL AREA- 4622 SQ.FEET	

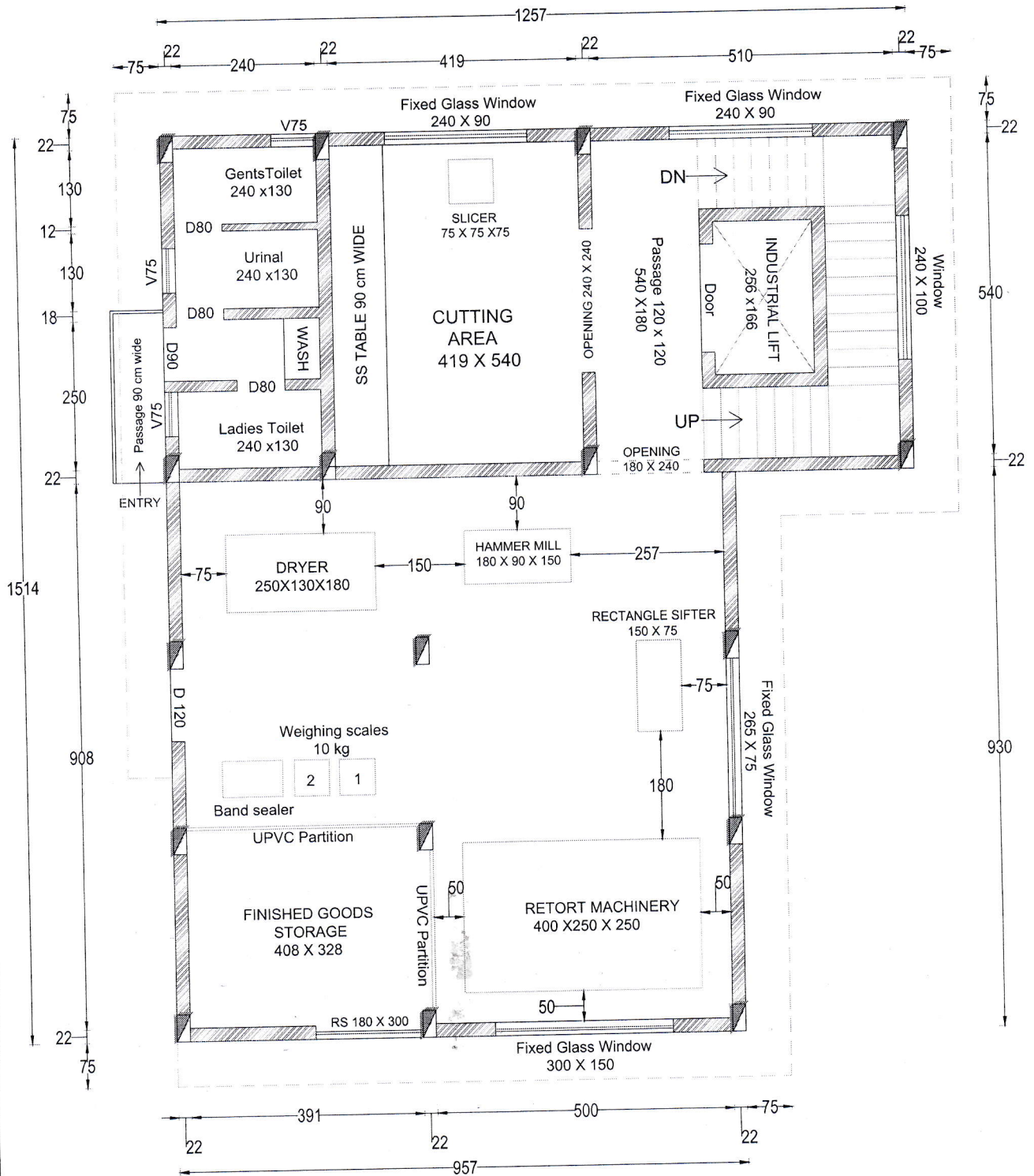
ALL DIMENSIONS ARE IN CM

SCALE



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BUILDING FLOOR PLANS -KODUVAZHANOOR SERVICE CO-OPERATIVE BANK



GROUND FLOOR
AREA: 162.33 SQM
1747 SQ.FEET

FLOOR PLAN AREA DETAILS	
BASEMENT FLOOR -	73.38 m2 , 780 SQ.FEET
GROUND FLOOR -	162.33 m2 , 1747 SQ.FEET
FIRST FLOOR -	162.33 m2 , 1747 SQ.FEET
TERRACE FLOOR -	32.35 m2 , 348 SQ.FEET
TOTAL AREA- 4622 SQ.FEET	

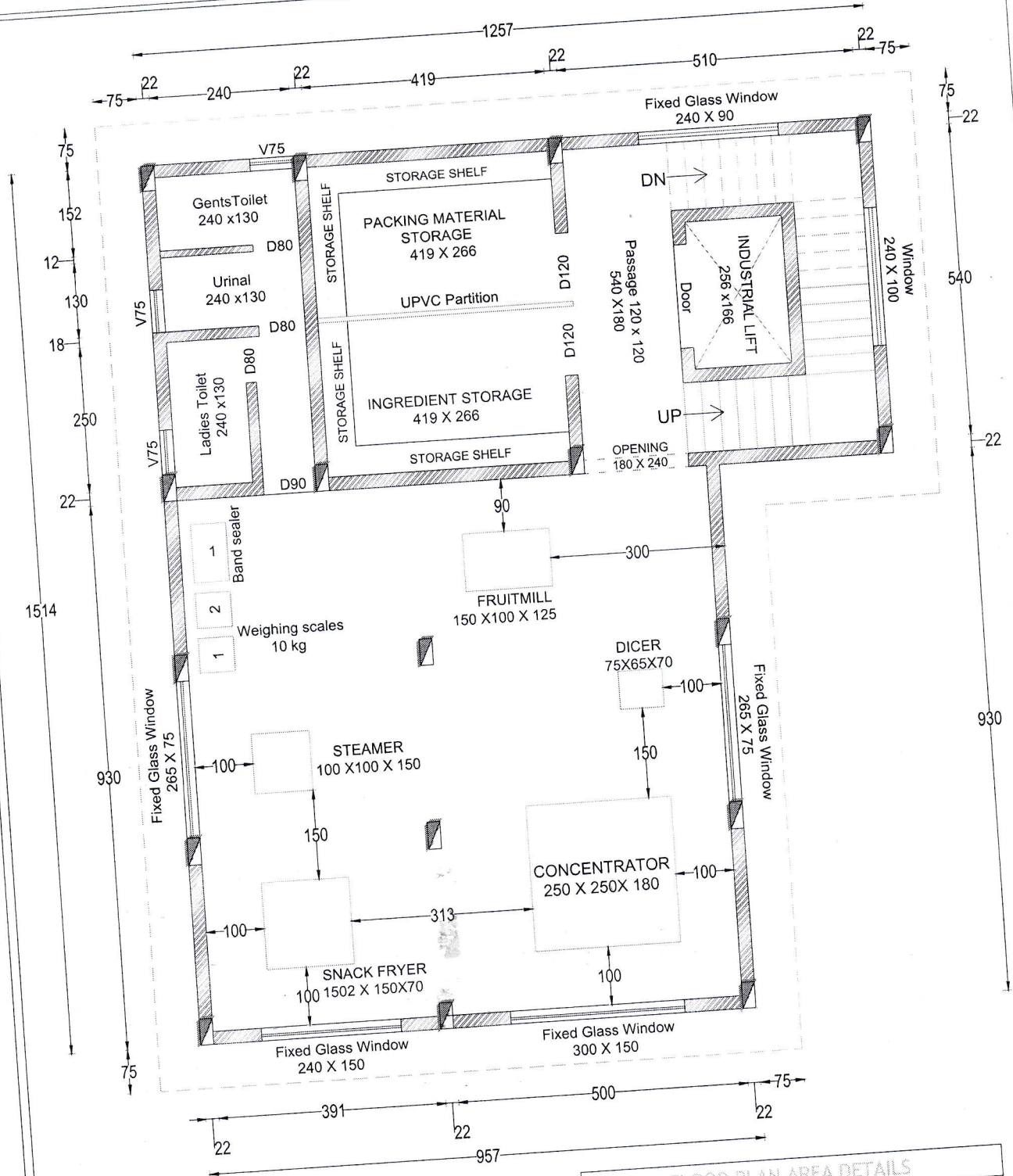
ALL DIMENSIONS ARE IN CM

SCALE - 1:100



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BUILDING FLOOR PLANS - KODUVAZHANOOR SERVICE CO-OPERATIVE BANK



FIRST FLOOR
 AREA: 162.33 SQM
 1747 SQ.FEET

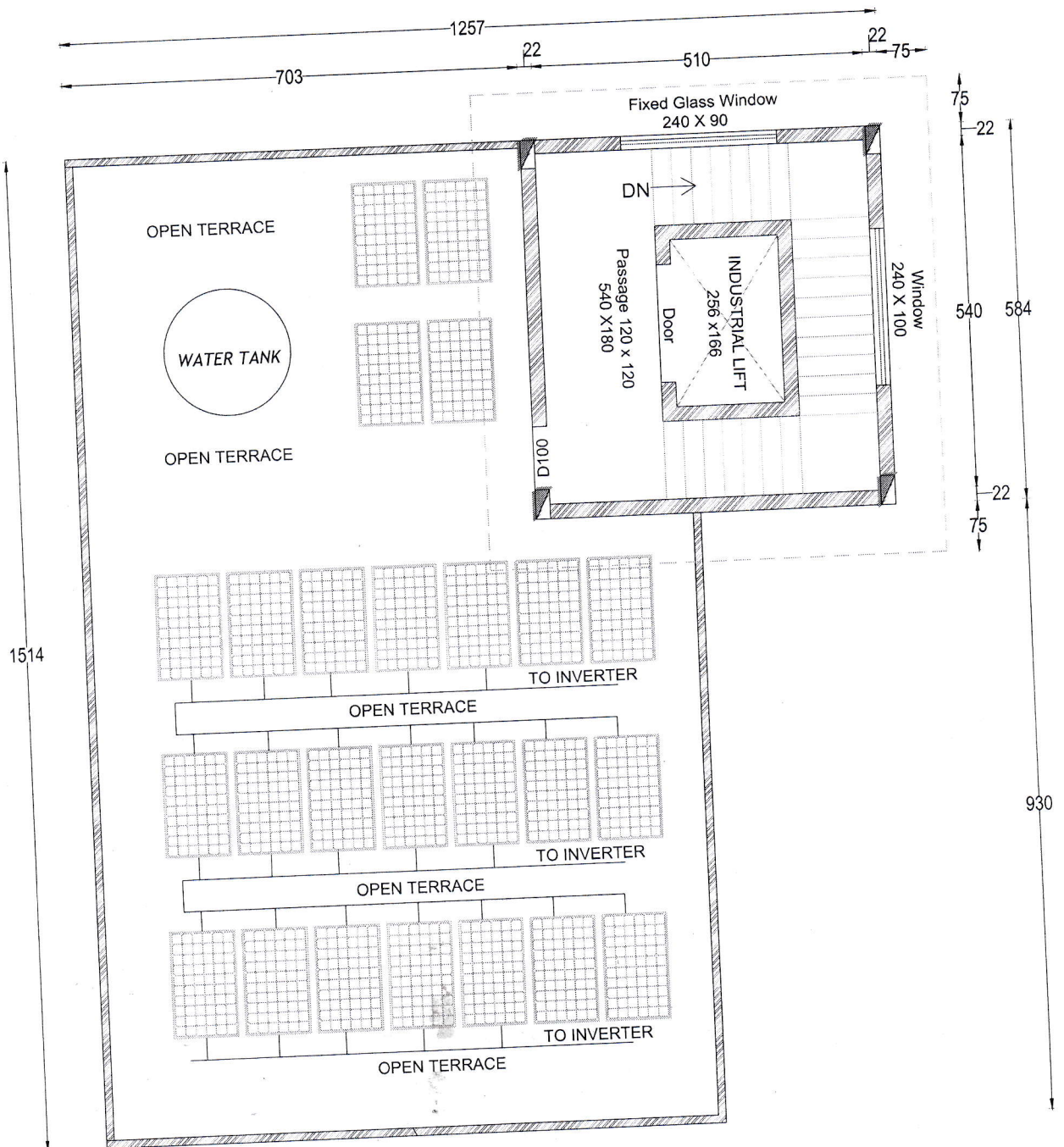
FLOOR PLAN AREA DETAILS	
BASEMENT FLOOR -	73.38 m2 , 780 SQ.FEET
GROUND FLOOR -	162.33 m2 , 1747 SQ.FEET
FIRST FLOOR -	162.33 m2 , 1747 SQ.FEET
TERRACE FLOOR -	32.35 m2 , 348 SQ.FEET
TOTAL AREA- 4622 SQ.FEET	

ALL DIMENSIONS ARE IN CM

SCALE - 1:100

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BUILDING FLOOR PLANS -KODUVAZHANOOR SERVICE CO-OPERATIVE BANK



TERRACE FLOOR
AREA: 32.35 SQM
348 SQ.FEET

FLOOR PLAN AREA DETAILS	
BASEMENT FLOOR -	73.38 m2 , 780 SQ.FEET
GROUND FLOOR -	162.33 m2 , 1747 SQ.FEET
FIRST FLOOR -	162.33 m2 , 1747 SQ.FEET
TERRACE FLOOR -	32.35 m2 , 348 SQ.FEET
TOTAL AREA- 4622 SQ.FEET	

ALL DIMENSIONS ARE IN CM

SCALE - 1:100



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