



**TITLE: TENDER FOR SUPPLY CONSTRUCTION SERVICES FOR POLES
PRODUCTION FACTORY**

TENDER REFENCE NUMBER: REMCO/PM/09/2025-2026

**PROCURING ENTITY: RWANDA ENGINEERING AND MANUFACTURING
CORPORATION (REMCO)**

PROCUREMENT METHOD: OPEN COMPETITIVE BIDDING

DATE OF ISSUE: 27th April 2026

DEADLINE OF SUBMISSION: 06th May 2026

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SECTION 1. INTRODUCTION AND BACK GROUND

Rwanda Engineering and Manufacturing Corporation (REMCO) is a company that started in 2018 and is owned by the government of Rwanda. REMCO was established to manufacture machines, equipment and spare parts that were previously imported to serve in the sectors of Agriculture mechanization, Construction, Mining, Automotive, Energy, Defense and Health care. REMCO also provides technical support services to other local as well as regional companies through training, repair and maintenance services.

The Production Department of REMCO hereby requests qualified construction services for the construction of a Lighting Pole Production Factory. The scope includes sub-structural works reinforced concrete foundations, industrial floor slab, external civil works, MEP including compressed air system requirements, sanitary facilities, and surrounding access roads required for heavy industrial operations.

The factory will have a total size of 80 x 40 meters, with 80 x 20 meters reserved for machine installation and the remaining space designated as a warehouse for tasks such as painting and Storage

REMCO hereby invites qualified and reputable bidders to submit their bids/offers for the supply **construction services for poles production factory**

Interested bidders should ensure their submissions comply with the specifications and conditions outlined in the tender documents.

SECTION 2. SCOPE OF SERVICE

The successful bidder shall be required to provide these **construction services for poles production factory** as per the required specification and requirements mentioned in this document below in the best quality and they must be able to serve the purpose for which they are intended to.

1.1. Foundation Works

- i. Site preparation, excavation, and earthworks
- ii. Soil compaction and preparation based on geotechnical report
- iii. Reinforced concrete pad footings for steel columns and heavy equipment
- iv. Strip foundations and plinth beams
- v. Anchor bolt installation, alignment, and leveling
- vi. Backfilling and compaction
- vii. Concrete curing and compressive strength testing

1.2. Reinforced Concrete Structures

- Columns and beams for structural support
- Reinforced concrete plinths and retaining structures where required
- Structural elements designed for industrial loading conditions

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1.3.Industrial Floor Construction

- Heavy-duty reinforced concrete floor slab
- Surface hardening for abrasion and impact resistance
- Floor leveling and finishing suitable for machinery installation
- Expansion joints and crack control systems

1.4.Sanitary Facilities (Toilets)

- Construction of male and female toilet blocks
- Septic tank or sewer connection system
- Water supply and drainage installation
- Ventilation and hygienic finishing

1.5.External Works

- i. Construction of internal access and circulation roads
- ii. Rain water drainage systems and channels
- iii. Site grading, leveling, and compaction
- iv. Parking and loading/unloading areas
- v. Landscaping and finishing works

successful upon thorough and clear inspection by the appointed member of REMCO staff.

SECTION 3. TENDER PRESENTATION AND REQUIREMENTS

All tenders must include and present the following phases and they will be evaluated in the same fashion.

3.1. ADMISTRATIVE ELIGIBILITY

All bidders shall provide the following documents as the first criteria to be followed for the first stage of evaluation.

- a. A valid business registration certificate
- b. A valid company profile

3.2. TECHNICAL QUALIFICATION AND INSTRUCTIONS

All steel materials must comply with **ISO 9001** standards. Steel must be galvanized or treated against corrosion. Roofing materials must be durable and weather-resistant. Ventilation must ensure proper airflow. Overhead cranes must meet international lifting equipment safety standards and include control systems, limit switches, and safety devices.

It must also comply with loading standards. Materials standards and design standard.

All bidders shall present the following as the second criteria to be followed in the second stage of evaluation.

- a. A list of specifications that must correspond to the following specifications. Lower specification will not be tolerated or accepted.

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**PROPOSED QUANTITIES FOR CONSTRUCTION WORKS FOR REMCO
ELECTRICAL POLE FACTORY**

ITEM	DESCRIPTION	UNIT	QTY
	ELEMENT NO 1 SUBSTRUCTURES		
1.00	Excavation and Disposal		
2.00	Excavate for Column bases: Commencing from reduced levels exceeding 1.5m but not exceeding 2.5m deep for any type of soil either Hardrock or soft soil	CM	551
2.00	Excavate for Stone Foundation: Commencing from reduced levels exceeding 1.5m but not exceeding 2.5m deep for any type of soil either Hardrock or soft soil	CM	205
3.00	Disposal of excavated material:		
3.00	Backfilling of Murram to make up levels in 200mm thick layers well compacted	CM	308
4.00	Load and cart away surplus soil and deposit in the distance not exceeding 10km from the construction site the site to agree with the Local Authority	CM	448
5.00	<u>ANTI - TERMITE TREATMENT</u>		
6.00	Anti termite TERMIDOR 25EC or equal and approved chemical anti termite treatment applying		
7.00	Under floors including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming with a 20 years guarantee	SM	3,486
8.00	Under Bottom and sides for trenches and column bases, etc., including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming with a 20 years guarantee	SM	1,635
9.00	HARDCORE FILLING		
10.00	200mm thick selected and approved backfill material under the slab and splash apron well compacted in 2 layers minimum and levelled to receive hardcore compaction	CM	697
11.00	Backfill and compact in 150 mm layers with selected excavated materials to make up levels from the site.	CM	697
12.00	Supply and compaction of 200mm thick hardcore well compacted in layers	SM	3,198
13.00	Ditto but to the splash Apron	SM	288
14.00	50mm thick approved murram or stone dust blinding to surfaces of hardcore	SM	3,198
15.00	Ditto but to the splash Apron	SM	288

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16.00	Prepare the surface and apply 2 coats of bitumen to the underground substructures	SM	3,486
17.00	Ditto but 400 mm thick hardcore under footings	CM	147
18.00	DAMP PROOFING OF WALLS AND FLOOR		
19.00	Damp Proof Membrane (DPM) 500 Gauge polythene laid over blinding OR one layer 250-micron green polyethylene water proof course (SANS 952 - 1985 type C) sealed at laps with pvc self-adhesive tape		
20.00	Under Surface beds	SM	288
21.00	Damp Proof Coarse DPC: bituminous felt, bedded in cement sand mortar 1:3 with 300mm laps horizontal 200mm wide OR One layer 375-micron consol plastic Brik grip DPC embossed damp proof course		
22.00	In Walls	LM	240
23.00	Planking and strutting		
24.00	Planking and strutting to sides of all excavations: keep excavations free from all fallen materials	ITEM	1
25.00	Disposal of water		
26.00	Keep excavations free from all water	ITEM	1
27.00	<i>Reinforced Normal; class 15; vibrated; in Blinding under foundations and bases, thickness of</i>		
28.00	50 mm Under Stone Foundation bases	CM	26
29.00	50 mm Under Column bases	CM	37
30.00	Plain concrete thick 100mm on Ground floor mix Class 25	CM	240
31.00	Ditto but to 100mm thick splash apron	CM	43
32.00	MASONRY WALL FOUNDATIONS		
33.00	Supply and arise Natural hard approved quarry stone masonry walling works with a crushing strength of 7.5 N/mm ² ; walling bedded and jointed in cement sand mortar, with flush joints pointing neat as described in as per Engineer details:	CM	154
34.00	<i>In-situ reinforced concrete (RCC) Class 30 (20 mm aggregate): vibrated reinforced Concrete (RCC) in (cement: coarse sand: aggregate) for RCC works with approved quality of cement and sand and crushed stone aggregate including mixing, laying, curing (28 days) etc. all complete in approval of site engineer.</i>		
35.00	Footing bases	CM	79
36.00	Sub-columns	CM	13
37.00	Ground beams	CM	6
38.00	Ground Slab	CM	697

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	TOTAL FOR SUBSTRUCTURE		
	ELEMENT NO 2		
	WALLING AND PARTITIONS		
	Burnt Clay brick walling: bedded, jointed and pointed in cement		
1.00	200mm Thick External wall	SM	903
2.00	200mm Thick Internal wall	SM	394
3.00	200mm Thick wall Parapet	SM	121
4.00	SIDE CLADDING		
5.00	Super 5 profile or other approved (IT4 28 gauge) preprinted galvanized steel roof sheeting and accessories or any equal as approved by the Architect.		
6.00	28Gauge wall sheeting in single length lapped one corrugation at sides of sheets and 300mm at end laps and fixed to steel vertical members spaced at approximately 1500mm centers with 18,9mm stainless steel hexagonal head top speed fasteners complete with galvanized steel and bitumen washers at 340 mm centers having side laps stitched at 1 m centers with 6 mm diameter x 25 mm galvanized steel and bitumen washers	SM	2,559
	TOTAL FOR WALLING AND PARTITIONS		
	ELEMENT NO 3		
	TIMBER FLUSH DOORS		
	(Ensure the wood is Klin dry. Prime ref: CROWN all joints, tenons, grooves, tongues and meeting surfaces during assembly. Sandpaper smooth and finely round off sharp edges. Dust off oily timber to be thoroughly wiped clean with a cloth dipped in white spirit and allow to dry)		
	Supply and fix only 45 mm thick semi solid cored standard swinging both sides; hardwood lipped all round, complete with cutting, with and including first quality cylindrical lock to the satisfaction of the Architect's details and Client's approval		
2.00	Door overall size	SM	50
	TOTAL FOR DOORS		
	ELEMENT NO 4		
	EXTERNAL FINISHES		
1.00	Prepare and apply 15mm 1:4 cement-sand plaster applied with wood float trowel finish to external surface as per design	SM	1,146
2.00	Prepare and apply water-based emulsion paint 1coat undercoats and 2 coats for weather guard paint finishing: to the external plastered surface	SM	1,146

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3.00	INTERNAL WALL FINISHES		
4.00	15mm thick 1:2:9 cement -lime-sand first coat and 4mm 1:1:6 c-l-s second coat plaster with a wood float finish to the internal surface as per the design	SM	1,690
5.00	Prepare and apply 1 undercoat first grade silk emulsion paint and 2 coats for finishing: on the internal plastered surface	SM	1,690
6.00	WALL TILES		
7.00	15mm back finished with cement sand mixer well mixed and finished to smooth with wood float	SM	567
8.00	Supply and fix First grade 600 x 250 x 8 mm non-slip imported Porcelain floor tiling of approved quality and approved surface texture/ patterned finish as per Architect's details:	SM	567
9.00	FLOOR FINISHES		
10.00	15mm bed finished with cement sand mixer well mixed and finished to smooth with wood float	SM	330
11.00	Ditto but 100mm thick	LM	424
12.00	Supply and fix First grade 600 x 600 x 10 mm non-slip imported Porcelain floor tiling of approved quality and approved surface texture/ patterned finish as per Architect's details:	SM	330
13.00	Ditto but 100mm thick to receive Porcelain skirting	LM	424
14.00	CEILING FINISHES		
15.00	Suspended acoustic ceiling: 600 x 600 x 15mm fine fissured mineral fiber tiles in and including aluminum 'T' frame grid system: Rectangular edges and shadow gap trim: suspension system: measured over light fittings: including all cutting and trimming to light fittings	SM	330
16.00	FLOOR FINISHES WAREHOUSE		
17.00	15mm bed finished with cement sand mixer well mixed and finished to smooth with wood float	SM	3,272
18.00	Ditto but 100mm thick	LM	242
19.00	Supply and fix 15mm thick epoxy resin with selected color by the client's representative well finished as per Architect's details:	SM	3,272
20.00	Ditto but 100mm thick to receive Porcelain skirting	LM	242
	TOTAL FOR FINISHES		

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**PROPOSED QUANTITIES FOR CONSTRUCTION WORKS FOR REMCO POLE
FACTORY**

ITEM	DESCRIPTION	UNIT	QTY
	A. Lighting		
	Luminaries		
1.00	Industrial suspended LED High-bay Luminaires. 150W. 24700Lm, IP65 or IP66 Power Consumption 150 W ±10% Luminous Flux ≥ 24,700 lm Input Voltage 100 – 277 VAC (standard) Frequency 50/60 Hz Power Factor ≥ 0.95 Total Harmonic Distortion (THD) ≤ 20% IP Rating IP65 or IP66 Color Temperature (CCT) 4000 K / 5000 K / 5700 K (selectable), Rated life: 50000 h (L70/B50)	Pcs	60
2.00	600x600mm LED ceiling light. Edge-lit LED luminaire. Body: sheet steel, finished white. Diffuser: UV-stabilized polycarbonate micro prismatic optic. Complete with 4000K LED, Luminaire input power: 28 W. Nominal illumination flux: 3800 lumens, color rendering index > 70.	Pcs	18
3.00	Linear surface mounted LED light. Ceiling/wall mounted fixture. Housing and end caps made of rectangular powder coated cold rolled sheet steel. Rectangular diffuser made of non-yellowing plastic (PMMA), opal. Optical system for homogeneous and soft illumination of the entire light-emitting surface. Power:15W/18W, Size: L1200mm, W160mm, H58mm. Input voltage: 230VAC. (CCT) [K]: 4000 Nominal illumination flux: 1600 lumens, color rendering index >70. Housing: Ingress of Protection IP:54	Pcs	4
4	Ceiling recessed LED spot right. With reflector. Power: 7W/8 W, Size: diameter: 100mm. Structure material: Aluminum. Structure finish: Black Input voltage: 230VAC. (CCT) [K]: 3500 Nominal illumination flux: 600 lumens, color rendering index > 70.	Pcs	12
	Supply & install 19 W Recessed LED Downlight, Ø220 mm, 2850 lm, 3000 K, IP44, Ceiling recessed complete with driver	Pcs	26

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	Slim and aesthetic IP44 bathroom Light with PIR detector. Mounted via bracket. Input power: 14W. Size: 692x90x60 mm. Luminous flux: 1500 lm. CCT:4000K. CRI:80	Pcs	3
	EXIT DIRECTION SIGN: Ceiling mounted 3W non-maintained 2 hours IP65 3W LED with right or left integrated emergency EXIT sign and Symbol (to show EXIT direction). Supplied directly, not switched off. Rechargeable cadmium-nickel/Ni-MH battery. Arrow should be positioned vertically	Pcs	4
	DOOR EXIT SIGN: Ceiling mounted 3W non-maintained 2 hours IP65 3W LED with downward integrated emergency EXIT sign and Symbol (to show doors). Supplied directly, not switched off. Rechargeable cadmium-nickel/Ni-MH battery. Arrow should be positioned vertically	Pcs	14
	Wall mounted 6W non-maintained 3 hours IP65 6W LED bulkhead emergency light. Supplied directly, not switched off. Rechargeable cadmium-nickel/Ni-MH battery.	pcs	10
	Switches		
4.00	Rectangular/squared PVC flush mounted one gang back box plus flush mounted ONE gang ONE way screw fixed switch 16A/250V	pcs	23
5.00	Rectangular/squared PVC flush mounted one gang back box plus flush mounted ONE gang TWO ways screw fixed switch 16A/250V	pcs	19
	Rectangular/squared PVC flush mounted a gang back box plus flush mounted Two gang TWO ways screw fixed switch 16A/250V		-
6.00	Rectangular/squared PVC flush mounted one gang back box plus flush mounted one gang intermediate screw fixed switch 16A/250V	pcs	2
	B. Power		
	Socket outlets		
1.00	Rectangular/squared PVC flush mounted 2- gang back box plus 2-module screw fixed socket outlet. 250V, 16A 2P+E. Complete with child safe shutter for child protection	pcs	23
2.00	Rectangular/squared PVC flush mounted 1- gang back box plus 1-module screw fixed socket outlet. 250V, 16A 2P+E. Complete with child safe shutter for child protection	pcs	5
3.00	Industrial Plug & Socket Panel 32 A Plug & Socket three Phase & built-in 32A four Pole MCB.	pcs	4
	C. Wiring		

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	Wiring with copper conductors and PVC insulation and shield, for the voltage 750V:		
1.00	Cable for Lights with semi-rigid VOB 1.5 mm ² PVC Insulated Copper wires. 100m. COLOR: RED (max 7 wire strands)	roll	35
2.00	Cable for Lights with Semi-rigid VOB 1.5 mm ² PVC Insulated Copper wires. 100m. COLOR: BLUE (max 7 wire strands)	roll	35
3.00	Cable for Lights with Semi-rigid VOB 1.5 mm ² PVC Insulated Copper wires. 100m. COLOR: BLACK (max 7 wire strands)	roll	35
4.00	Cable for power sockets with Semi-rigid VOB 2.5mm ² PVC Insulated Copper wire.100m RED (max 7 wire strands)	roll	13
5.00	Cable for power sockets with Semi-rigid VOB 2.5mm ² PVC Insulated Copper wire.100m BLUE (max 7 wire strands)	roll	13
6.00	Cable for power sockets with Semi-rigid VOB 2.5mm ² PVC Insulated Copper wire.100m GREEN /YELLOW (max 7 wire strands)	roll	13
	Cable for Lights with Semi-rigid 3x2.5 mm ² PVC Insulated Copper wires. 100m (max 7 wire strands)	roll	18
7.00	5x6sqmm Semi-rigid copper PVC insulated cables to three phase sockets (32A)	roll	1
	Accessories		
1.00	PVC rigid 20mm Dia heavy gauge conduits with accessories	lm	4,000
2.00	PVC rigid 25mm Dia heavy gauge conduits accessories	lm	1,800
2.00	PVC rigid 32mm Dia heavy gauge conduits including for cross beam sleeves	lm	100
3.00	Surface mounted heavy gauge WHITE PVC squared Junction box for 20mm Dia pipes	Pcs	-
4.00	Flush mounted heavy gauge WHITE PVC round four-way Junction box for 20mm Dia pipes	Pcs	80
5.00	Bending spring for 20mm Dia	Pcs	2
	POWER DISTRIBUTION		
1.00	Main distribution board (MDB). 630A . Metallic distribution box (enclosure) with mounting rails, busbars and with double bar lock. Double doors. IP 66 according to standards IEC EN 60529, reversible boxes, busbar protective screen (fiber or PMMA), 2 fixing methods: - direct fixing - fixing via stainless steel lugs. Solid galvanized steel plates. Anti-corrosion paint finish supplied with drilled vertical uprights for fixing rails and plain plates. Including busbars, busbar PMMA protective screen, isolators and following switchgears for MDB	Pcs	1
	Circuit Breakers		

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2.00	MCCB 630A 400V 4P. rated impulse withstand voltage=8kV, rated service breaking capacity:50 kA at 380/415V AC Hz	Pcs	1
	MCCB 3P+N,380V 100A For Pole Jointing and welding machine	Pcs	1
	MCCB 3P+N,380V 80A For De-Coiling-Leveling-cutting line	Pcs	1
	MCCB 3P+N,380V 63A For steel plate oblique shearing machine & Tandem Press brake (2)	Pcs	3
	MCB 3P+N,380V 40A For Simple plasma and flame cutting machine	Pcs	1
	MCB 3P+N,380V 32A For Automatic grinding machine & Straightening Press	Pcs	2
	MCB 3P+N,380V 10A For Tube bending machine	Pcs	1
	MCCB 3P+N,380V 63A for Spare	Pcs	3
	MCB 3P+N,380V 40A for Spare	Pcs	3
4.00	MCCB 3P+N,380V 63A for Crane	Pcs	2
6.00	MCB 3P+N,380V 32A for spare	Pcs	3
7.00	MCB 1P,220V 16A for sockets	Pcs	2
8.00	MCB 1P,220V 10A for light	Pcs	7
9.00	RCCB 32A/40A 2P 30mA	Pcs	1
11.00	Digital Timer switch 220V 16A	Pcs	2
12.00	Surge Protective Device 2kV 4P 380V 25kA	Pcs	1
13.00	phase indicator lights	Set	18
14.00	MCB 3P+N,400V 40A for CU	Pcs	1
15.00	MCB 3P+N,400V 40A for HVAC	Pcs	1
16.00	Three Phase control with Emergency shutdown	Set	1
18.00	Push button	Pcs	1
	CONSUMER UNIT 1		
	Wall Flush Mounted Distribution board powder coated metal enclosure: 48 Ways SPN, vertical door hinges, wall mount (recessed in wall) distribution board complete with all necessary connecting materials including DIN mounting rail, lockable cover for Consumer Unit and the following:	Pcs	1
	Circuit Breakers		
	Mains: MCB 3P+N,400V 40A	Pcs	1
	RCCB 32A 2P 30mA	Pcs	2
	MCB 1P,230V 16A for sockets	Pcs	2
	MCB 1P,230V 10A for light	Pcs	4
	MCB 1P,230V 16A/20A for Light	Pcs	6
	CONSUMER UNIT 2		

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	Wall Flush Mounted Distribution board powder coated metal enclosure: 48 Ways SPN, vertical door hinges, wall mount (recessed in wall) distribution board complete with all necessary connecting materials including DIN mounting rail, lockable cover for Consumer Unit and the following:	pcs	1
	Circuit Breakers		
	Mains: MCB 3P+N,400V 40A	pcs	1
	RCCB 32A 2P 30mA	pcs	3
	MCB 1P,230V 16A for sockets	pcs	6
	MCB 1P,230V 10A for light	pcs	6
	MCB 1P,230V 16A for Spare	pcs	4
	POWER DISTRIBUTION CABLES		
1.00	Supply, Laying, Testing and Commissioning of three phase underground cable 0.8 meter below ground level covered with sand and bricks including necessary connections, digging in all classes of soil and refilling of trenches for Underground Cable 2 Runs x1core x4x120sqmm L.T copper cable, semi-rigid , XLPE insulated, Armoured cable of approved make copper conductor armoured cables suitable for working voltage up to 1100 volts including proper dressing of the cable in an approved manner complete as required and as per specifications (from 1000kVA power cabinet in factory to Foundry 2500kVA power cabinet passing underground and raising up in the foundry, laying on existing cable tray and going down after crossing the foundry)	m	150
	Supply, Laying, Testing and Commissioning of 4Cx10+1CX10sq mm L.T copper cable, rigid or semi-rigid, PVC Un armoured insulated of approved make copper conductor non armoured cables suitable for working voltage up to 1100 volts including proper dressing of the cable in an approved manner complete as required and as per specifications. to consumer units	LM	80
	Supply, Laying, Testing and Commissioning of 4Cx25+1CX16sq mm L.T copper cable, rigid or semi-rigid, PVC Un armoured insulated of approved make copper conductor non armoured cables suitable for working voltage up to 1100 volts including proper dressing of the cable in an approved manner complete as required and as per specifications. For De-Coiling-Leveling-cutting line & Pole Jointing and welding machine	LM	200

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Supply, Laying, Testing and Commissioning of 4Cx16+1CX16sq mm L.T copper cable, rigid or semi-rigid, PVC Un armoured insulated of approved make copper conductor non armoured cables suitable for working voltage up to 1100 volts including proper dressing of the cable in an approved manner complete as required and as per specifications. For steel plate oblique shearing machine & Tandem Press brake (2)	LM	250
Supply, Laying, Testing and Commissioning of 4Cx16+1CX16sq mm L.T copper cable, rigid or semi-rigid, PVC Un armoured insulated of approved make copper conductor non armoured cables suitable for working voltage up to 1100 volts including proper dressing of the cable in an approved manner complete as required and as per specifications. For Crane (2)	LM	100
Supply, Laying, Testing and Commissioning of 4Cx10+1CX10sq mm L.T copper cable, rigid or semi-rigid, PVC Un armoured insulated of approved make copper conductor non armoured cables suitable for working voltage up to 1100 volts including proper dressing of the cable in an approved manner complete as required and as per specifications. For Simple plasma and flame cutting machine	LM	85
Supply, Laying, Testing and Commissioning of 4Cx6+1CX6sq mm L.T copper cable, rigid or semi-rigid, PVC Un armoured insulated of approved make copper conductor non armoured cables suitable for working voltage up to 1100 volts including proper dressing of the cable in an approved manner complete as required and as per specifications. For Automatic grinding machine & Straightening Press	LM	100
Supply, Laying, Testing and Commissioning of 4Cx4+1CX4sq mm L.T copper cable, rigid or semi-rigid, PVC Un armoured insulated of approved make copper conductor non armoured cables suitable for working voltage up to 1100 volts including proper dressing of the cable in an approved manner complete as required and as per specifications. For Tube bending machine	LM	40
ROAD CROSSING		
Cut or transverse the asphalt road, install/lay down at 800mm depth the 3x110mm Dia PN16 HDPE pipes and repair the road (check the possible presence of other utilities/channels/drainage pipe)	m	25
transverse the asphalt road, install/lay down at 800mm depth the 3x110mm dia PN16 HDPE pipes and repair the road (check the possible presence of other utilities/channels/drainage pipe)	Ls	1

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	Construction of brick masonry manhole of internal clear dimensions 1000mm × 1000mm, complete with concrete base, benching, plastering, heavy-duty cover and frame, suitable for electrical.	nr	2
EQUIPOTENTIAL BONDING			
4.00	Supply and install and test -auxiliary earthing system for equipotential bonding. Minimum number of copper rod per earth point is 3. Overall, all earthing systems should be interconnected to suppress step voltage Maximum earth resistance :2 Ohms -Inspection chamber and earth disconnecting link included. to be connected to level 1 earthing system for voltage equalization	Ls	1
5.00	Supply, install, test and commissioning earth pure copper ribbon/strip, size: 25x3mm. Ribbon to be attached to steel rebar by appropriate reinforcing conductor clamp to steel-copper strip	meters	300
6.00	Appropriate factory-made reinforcing conductor Clamp used to bond the copper strip to reinforcing bar	pc	40
CABLE TRAYS			
1.00	Supply, Install, Test and commissioning of 200X100mm Perforated Cable Tray with cover and all accessories	Lm	250
2.00	Supply, Install, Test and commissioning of 50X25mm Perforated Cable Tray with cover and all accessories	Lm	100
FIRE DETECTION AND ALARM SYSTEMS			
Supply and install the following Addressable fire alarm and detection system			
1.00	SUPPLY, INSTALL, TEST AND COMMISSIONING OF THE ADDRESSABLE FIRE ALARM CONTROL PANEL MICRO PROCESSOR CONSTRUCTED, One (1) loop/128 devices WITH MINIMUM FOLLOWING SPECIFICATIONS. -non-volatile event history log stores minimum 1000 events. -The control panel should be user-friendly and the display should be clear - panel should derive its power from an internal power supply. The internal power supply shall also provide battery backup facility in the event of mains failure. -The Fire System shall comprise a circuit (one loop) starting at and returning to the Fire Alarm Control Panel	pc	1

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	A linear optical beam smoke detector suitable for large open areas such as warehouses, production halls, workshops and industrial buildings. Designed for connection to an addressable fire detection system. Minimum span: 5 m, Maximum span: 100 m (reflector distance), It is Intelligent reflected beam smoke detectors and the smoke detector includes one wired transmitter/receiver unit and one reflector. With integral sensitivity test feature that uses a test filter attached. Detection Principle: Infrared beam smoke detection, System Type: Addressable (compatible with addressable fire alarm system), Minimum Protection Distance: 5 m, Maximum Protection Distance: 100 m (with reflector), Sensitivity Range: Adjustable, programmable via panel or onboard switches, Sensitivity Range: Adjustable, programmable via panel or onboard switches, Alignment Method: Built-in laser or optical alignment aid, Supply Voltage: 15–30 VDC (or as per system requirement), LED Indicators: Alarm, Fault, Power, etc.	Pcs	4
2.00	100 sqm Addressable optical smoke detector below the false ceiling	Pcs	12
4.00	100 sqm Addressable optical heat detector below the false ceiling	Pc	0
5.00	Addressable combined sounder/beacon, sound of 100 dB output at 1-metre.	Pc	7
6.00	Addressable manual call-point.	Pc	9
7.00	Supply, installation, testing, and commissioning of 1.5 mm ² , 2-core fire-resistant cable, compliant with BS 5839 and BS 5266, manufactured to BS 7629-1 standards, LSOH (Low Smoke Zero Halogen), measured per 100 m length.	roll	12
	Heavy Gauge PVC rigid conduits 20 mm of 3m with accessories	Lm	1,200
LIGHTNING PROTECTION SYSTEM			

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	<p>Supply, install and test complete.</p> <p>-Lightning protection system and Grounding system. The supplier should present the certificate of origin, authorization of manufacturer and model number of air termination rod prior to approval. Air termination should locally have a dedicated testing and inspection kit to test lightning conductor without dismantling, using telescopic pole and test kit: Earth rod electrode, bonding, excavation and related services. The supply and installations of Lightning protection system must compulsorily comply integrally with French standard NF C 17-102 or IEC 62305-1 Part 1, IEC 62305-2 Part 2, IEC 62305-3 Part 3 and IEC 62305-4 Part 4.</p> <p>-The type of Air Termination System to be installed on those buildings at minimum 5m above tallest structure and are of the type ESE (Early Streamer Emission) Advanced triggering Delta T: 60 microseconds. Radius of protection >86m, level of protection: zone II</p>	nr	1
	<p>Maximum earth resistance :2 Ohms -25x3 mm down conductor and - Inspection chamber and Earth Disconnecting Link.</p>		
	<p>supply and install and test complete Digital Flash counter per lightning protection system: Minimal detectable current: 1kA Maximum detectable current: 100kA Ingress of Protection: IP 67 Operating temperature:0oC to 50oC Display: Digital, 4 Digits Battery: replaceable lithium batteries including fixing clamp to down conductor</p>	nr	1

PROPOSED QUANTITIES FOR CONSTRUCTION WORKS FOR REMCO ELECTRICAL POLE FACTORY			
ITEM	DESCRIPTION	UNIT	QTY
A	EARTHWORK BY EXCAVATION AND BACKFILLING	-	-
1.00	Excavation and backfilling in ground up to 1.30 m depth and 0.3, including all accruals.	m3	120

NE

B	WATER SUPPLY, STORAGE AND DISTRIBUTION		
	Supply and install HDPE PN16, PPR 20 water supply pipe for cold and water distribution from WASAC supply to all sanitary appliances according to where shown on the drawing, complete with the necessary connecting pieces such as bends, unions, nipples, tees, elbows, etc. Unit price shall include all necessary assistance to the installation works such as chiseling of walls, floe slab, etc. And closing them with concrete or cement mortal to normal condition. The installation shall be tested at a pressure of 1Mpa at the expense of the contractor.		
2.00	PPR pipe 3/4" with all accessories	m	60
3.00	Control Valve 3/4"	No	2
5.00	Construct VALVE CHAMBER in masonry, 80mm R.C cover and bar handle. Unit price shall include excavation of pit, internal plastering and cart away. Size: - 600x600mm	No	2
C	WASTE WATER COLLECTION SYSTEM		
	Supply and install with testing and commissioning of waste water pipes in horizontal branches and vertical stacks made of uPVC, PN10 pipes and fittings. Fittings should include bends, tees, branches, clean outs, reducers, etc. Joints are to be done with solvent wall. All horizontal branch pipes shall be laid at a slop of minimum 1%. Unit price shall include all the necessary assistance work to the installation, such as chiseling of walls, slabs, floors etc..., and closing them with concrete. All pipes entering manholes shall be trapped.		
1.00	PVC 50mm Pipe with all accessories	m	21
2.00	PVC 63mm Pipe with all accessories	m	65
3.00	PVC 110mm Pipe with all accessories	m	120
4.00	Supply and install stainless steel of 63mm Dia FLOOR TRAP in the wet areas floor.	Pcs	3

NE

5.00	Supply and fix of modern White Ceramic TOILET CLOSET (WC) Coupled Bathroom Pan & Seat WC. with Material: Ceramic; Hole Centers:150mm - 180mm; Room: Bathroom, size: Width 385mm x Depth [Projection] 750mm x Height 830mm, Seat Material: Plastic, Hinge Material: Chrome, Color: White, Options: Floor Standing, Cistern: closed Dual Flush, Outlet Type: Horizontal, Flush Capacity: 4/6 Lts, Style:Modern with all accessories for connection including: Complete Toilet Flush Tank Dual Flush Toilet Flush Mechanism , Braided Polymer Faucet Connector, compression nut & ring, stainless steel stop valve, tee, nipples, Wax ring, closet flange & bolt slot...	pcs	6
6.00	supply and fix Wash Hand basin 50 mm diameter with full pedestal with minimum dimension (size: 550x400x840) set conforming to BS3402 and comprising white glazed vitreous China basin with one tap hole, of white plastic coated and cast-iron screws. Wall basin support rail bracket, brass pillar cock taps with integral plug and chain, 32mm Dia slot and chrome plated brass waste drain hole, a slotted overflow outlet and brass bottle trap all chrome plated and complete with all the necessary accessories. Size 500x430mm	Pcs	5
7.00	Supply and fix a Stainless-steel shower Head with its shower arm made of PPR 1/2" Stand Pipe and its tap with all accessories.	Pcs	2
8.00	Urinal bowl for One person comprising of pair of Bowl support,1No.40mm diameter chrome plated outlet grating N,1No.40mm diameter chrome plated bottle trap, Hangers and any other necessary accessories.	No.	3
9.00	Supply and fix a stainless-steel TOILET PAPER HOLDER in white vitreous China with concealed fixing and white tubular roller including fixing screws, with overall Size 153x50x92mm	Pcs	6
10.00	Supply and fix crystal MIRROR GLASS , with frame, size 450x600mm.	Pcs	5
11.00	Supply and fix a stainless-steel SOAP HOLDER in chrome to be fixed near the hand wash basin	Pcs	5
13.00	Wall mounted Toilet brushes and their holders	Pcs	6
D	RAIN WATER COLLECTION		

NE

	Supply And install horizontal branches and vertical stacks made of uPVC, PN10 pipes and fittings. Fittings should include bends, tees, branches, clean outs, reducers, etc. Joints are to be done with solvent wall. All horizontal branch pipes shall be laid at a slop of minimum 1%. Unit price shall include all the necessary assistance work to the installation, such as chiseling of walls, slabs, floors etc..., and closing them with concrete. All pipes entering manholes shall be trapped.		
11.00	PVC 110mm Pipe with all accessories	m	192
11.00	PVC 160mm Pipe with all accessories	m	104
11.00	PVC 140mm Pipe with all accessories	m	68
E	CIVIL WORKS		
	Manholes		
1.00	Construct MANHOLES out of masonry concrete round pipes for waste water drainage and rain water completed with mass concrete base 100mm thick, 80mm Unit price shall include excavation of pit and cart away. Size: 600x600mm internal average depth = 600mm max with elephant cover which will be changed by size according to the waste water and Rainwater discharge (number).	No	25
F	<u>FIRE FIGHTING WORKS</u>		
	-		
	-		
	All pipes shall be heavy gauge galvanized mild steel pipes to B.S1387 and fittings to B.S. 1740 (class C). Price of pipework to include the cost of couplings, connectors, fixing brackets, holderbats, plugs and jointing to fittings etc., together with marking of pipe routes for wall chasing and holes cutting by others all as required in pipework installation.		
1.00	GI 32mm pipe with all accessories	m	20
1.00	GI 90mm pipe with all accessories	m	150

NE

2.00	Hose reel 30m long, 25mm Dia swinging access hose reel, including hexagonal union and gate valve for maintenance isolation of hose reel, as Angus Model 3 or approved equivalent with its surface Mounted fire cabinet 700x700x300mm that well hung or fixed on the wall.	No	5
3.00	Fire extinguishers (A, B, C Type) 6kg all welded 16swg steel body and handle fire extinguisher with textile reinforced neoprene hose and high impact nozzle and strike knob. Multipurpose extinguisher rated for fire class A, B and C as manufactured by Angus Model AP 9K or approved equivalent.	No	1
3.00	Fire extinguishers POWDWER 25kg all welded 16swg steel body and handle fire extinguisher with textile reinforced neoprene hose and high impact nozzle and strike knob. Multipurpose extinguisher rated for fire class A, B and C as manufactured by Angus Model AP 9K or approved equivalent.	No	8

PROPOSED QUANTITIES FOR CONSTRUCTION WORKS FOR REMCO HVAC POLE FACTORY			
ITEM	DESCRIPTION	UNIT	QTY
	Production hall		
A	VENTILATION SYSTEM		
1.00	Supply, installation, testing and commissioning of a wind-driven roof turbo ventilator that extract hot air, smoke, and stale air from the building without electricity of 800 mm throat diameter with at least 5,900 CFM	pc	48
2.00	Supply, installation, testing and commissioning of Roof fans that can remove smoke and heat complete with motor, drive mounting arrangement etc. complete in all respect as per specifications and drawings. The complete fan assembly along with the motor & drive assembly shall be fire rated i.e. suitable to operate up to 250°C for 2½ hours and meet the duty parameters. to be used on paint area		
3.00	10,000 m3/h at 20 mm static pressure	Nos.	3
	SUB TOTAL 1 - Production hall		
B	AC in offices		
	INDOOR UNITS		

NE

1.00	VRF one way type of cooling capacity 12Kbtu/hr., with room thermometer, room thermostat controls, and wireless remote-control device. It shall be charged with R410A refrigerant or any other non-ozone depleting refrigerant. The unit shall be such that if the power supply goes off, it will start automatically after power is restored with three-minute delay. The unit shall be "LG" Model.	pc	2
2.00	VRF two-way type of cooling capacity 18Kbtu/hr. with room thermometer, room thermostat controls, and wireless remote-control device. It shall be charged with R410A refrigerant or any other non-ozone depleting refrigerant. The unit shall be such that if the power supply goes off, it will start automatically after power is restored with three-minute delay. The unit shall be "LG" Model.	pc	1
3.00	Ditto, but 24	pc	2
C	OUTDOOR UNITS		
	VRF outdoor unit of cooling capacity:76,000 3phase, Refrigerant R-410A complete with following protection devices - Dual inverter compressor - Discharge and Suction temperature sensors - Internal Overload relay, Compressor overcurrent relay sensor - Overcurrent Sensors, High- and Low-pressure switch	pc	1
	COPPER PIPES		
1.00	Supply and install copper pipes complete with all bends, tees elbows and insulated in 12mm amour flex insulation.		
2.00	6.35 mm (1/4)	LM	30
3.00	9.52 mm (3/8)	LM	60
4.00	12.7 mm (1/2)	LM	30
5.00	15.88 mm (5/8)	LM	15
6.00	19.05 mm (3/4)	LM	25
7.00	22.2 mm (7/8)	LM	25
8.00	25.4 mm (1)	LM	
9.00	28.58 mm (1+1/8)	LM	
10.00	Y-branch joints		
11.00	Supply and installation of Y branches	pc	6
D	DRAINAGE		
1.00	32mm uPVC pipe Complete with bends, elbows, reducers, tees, solvent cement ,clips, wall plugs, supports, hangers, all associated fittings.	LM	20
2.00	ditto but 25mm	LM	20
	ELECTRICAL WORKS		

NE

1.00	Allow for associated electrical works, wiring from electrical room to outdoor unit, wiring from indoor unit to outdoor unit, wiring from Distribution board to outdoor unit with all installation		
2.00	Supply and installation of Main Distribution Board with Molded Case Circuit Breakers and lightning protection breaker.	pc	1
3.00	Supply and installation of Power cable 4x25 mm2 from Main Distribution board to outdoor unit with all accessories.	LM	25
4.00	Supply and installation of Power cable 3x2.5 mm2 from indoor unit to isolator in nearby electrical room with all accessories.	LM	120
5.00	Supply and installation of communication cable 2x2.5 with all accessories.	LM	120
6.00	Allow for Testing and commissioning each system of air Conditioning System to fully working conditions	Item	1
E	TOILET EXTRACTION SYSTEM		
1.00	Supply, install, testing of un-insulated GI ductwork 22 gauge for supply and return ductwork as per drawing, Complete with all accessories such as supports, bends, shoes, to ASHRAE standards.	sqm	60
2.00	Disk valve of 200 diam	pc	17
3.00	Supply and installation of inline extract fan with constant speed as system air brand 1,200CFM @200Pa or equivalent brand complete with Switch and electrical cabling	item	2
4.00	Un-insulated flexible duct of 150 diam	lm	44
F	PROPELLER FAN		
1.00	Supply, installation, testing and commissioning of normal Propeller fan complete arrangement in all respect as per specifications	pc	1

NE

PROPOSED QUANTITIES FOR CONSTRUCTION WORKS FOR REMCO EXTERNAL TOILET			
ITEM	DESCRIPTION	UNIT	QTY
EARTHWORKS			
1.00	Excavate in earth by mechanical means including cutting and trimming of side slopes in Hard Rock	CM	1,406
2.00	Excavate in earth by mechanical means including cutting and trimming of side slopes soft rock	CM	1,406
3.00	Disposal of cut materials at a specified site by the local authorities & top soil disposal (transportation distance within 10km and levelling)	CM	2,811
4.00	Backfill and compact in 150 mm layers: selected excavated materials to make up levels and imported soils	CM	3,141
STONE RETAINING WALL			
1.00	Excavate trenches and load the excavated soil, deposit is a selected location by local Authorities in the distance below 10Km from the construction site	CM	
2.00	50mm thick Blinding under stone masonry	CM	
3.00	500x120mm Concrete coping with sloping edges	LM	
	Construction of stone masonry retaining wall including weepholes to Bases	CM	
4.00	Construction of stone masonry retaining wall including weepholes to Walls	CM	
REINFORCED CONCRETE RETAINING WALL			
1.00	Excavate trenches and load the excavated soil, deposit is a selected location by local Authorities in the distance below 10Km from the construction site	CM	
2.00	50mm thick Blinding under RC Bases	CM	
3.00	500x120mm Concrete coping with sloping edges	LM	
	Construction of reinforced concrete retaining wall including weepholes to Bases	CM	
4.00	Construction of reinforced concrete retaining wall including weepholes to Walls	CM	
Balustrades and Railings			
5.00	Approved Balustrade comprising of 40x40x1.5mm R.H.S main verticals and 20x20x1.5mm RHS vertical middle steel and 40x40x1.5mm top and bottom horizontally RHS welded to a 4mm flat bar with an upper	LM	

NE

	top Circular Handrail of 50mm diameter, all steel finished with one coat of zinc primer and two coats of super gloss paint		
6.00	Ditto but to 50mm Ø CHS Handrail fixed to wall	LM	-
	DRAINAGE BEHIND RC RETAINING WALL		
14.00	Infill fine sand to the base of Perforated Pipe	CM	161
15.00	Infill 4-8 gravel material including compaction at each layer of 200mm depth	CM	161
16.00	Infill 16-20 gravel material including compaction at each layer of 200mm depth	CM	161
17.00	Infill clean sand at the top of the retaining wall	CM	161
18.00	Prepare and apply black bitumen to the external surface of the wall for moisture insulation	SM	161
19.00	Supply and fix 10mm thick Ekotex handy pack non-woven heavy gauge geotextile dimpled 1000 gauge	SM	840
20.00	Slotted HDPE Perforated pipe 110mm Dia PN2 Wrapped all around by geotextile.	LM	168
	EXTERNAL LIGHTING		
ITEM	DESCRIPTION	UNIT	QTY
	EXTERNAL LIGHTING		
1.00	Supply, install, test and commissioning MS steel or hot dip galvanized steel, round pole, single truss arm, 7m overall height, earthing system. Arm length :2m base overall diameter :0.2m, top overall diameter 0.10m, anchor base square :0.4x0.4x1m including excavation, backfill and Ancre bolt and concrete base, pole come with Factory Paint	Pcs	10.00
2.00	LED 140W STREET LIGHT Characteristics Cool White Input Voltage 85-265 VAC Frequency 50/60 Hz Power Factor ≥0.90 Color Rendering Index/CRI ≥80 CCT 5700K Luminous Flux/Lumen 10000lm Working Temperature -20°C to +50°C Environmental Impact Eco-friendly LED Luminous Efficiency >100lm/W Work Humidity 10% to 90%RH IP Protection IP 67. 16A MCB protection, Supplied with 10m cable 3x2.5sqmm	Pcs	10.00
3.00	Supply and install External lighting distribution board complete with 1No digital timers switch with digital display. High precision clock: ± 0.1 sec per day more	nr	1.00

NE

	than 5 years working battery reserve, 1No 4P Contactors with NC and NO auxiliary contact and door mounted ON and OFF buttons, Disconnecter Switch 63A, circuit breakers (Main: 63A TPN MCCB, 1No 32A TPN MCCB), 1No surge arrestors as provided in the drawings to engineer's satisfaction and approval.		
4.00	Supply, Laying, Testing and Commissioning of three phase underground cable 0.8 meter below ground level covered with sand and bricks including necessary connections, digging in all classes of soil and refilling of trenches for 5x6 mm ² armoured cable for external street lighting. The cost includes all the excavation work, chiseling and backfilling and warning tape and any other correction to engineers' approval.	lm	350.00
PROPOSED QUANTITIES FOR CONSTRUCTION WORKS FOR REMCO EXTERNAL PLUMBING WORKS			
ITEM	DESCRIPTION	UNIT	QTY
A	<u>EARTHWORK BY EXCAVATION AND BACKFILLING</u>		
1.00	Excavation and backfilling in ground up to 1.30 m depth and 0.3m thickness in soft soil, including all accruals.	m ³	1,544
B	<u>WATER SUPPLY, STORAGE AND DISTRIBUTION</u>		
	Supply and install HDPE PN16 water supply pipe for cold and water distribution from WASAC supply to all Buildings according to where shown on the drawing, complete with the necessary connecting pieces such as bends, unions, nipples, tees, elbows, etc. Unit price shall include all necessary assistance to the installation works such as chiseling of walls, floe slab, etc. And closing them with concrete or cement mortal to normal condition. The installation shall be tested at a pressure of 3.2 Mpa at the expense of the contractor.		
1.00	HDPE pipe 63 PN16 complete with all accessories	m	360
2.00	HDPE pipe 50 PN16 complete with all accessories	m	60
4.00	Construct VALVE CHAMBER in masonry, 80mm R.C cover and bar handle. Unit price shall include excavation of pit, internal plastering and cart away. Size: - 600x600mm	No	4
6.00	supply and install plastic water tank 10 cub meters elevated at existing structure equivalent, complete with float, 25mm overflow, 32mm washout, and 63mm Dia Outlet.	No	1

C	WASTE WATER DRAINAGE PIPEWORK		
	Supply and install with testing and commissioning of waste water pipes in horizontal branches and vertical stacks made of uPVC, PN10 pipes and fittings. Fittings should include bends, tees, branches, clean outs, reducers, etc. Joints are to be done with solvent wall. All horizontal branch pipes shall be laid at a slope of minimum 1%. Unit price shall include all the necessary assistance work to the installation, such as chiseling of walls, slabs, floors etc..., and closing them with concrete. All pipes entering manholes shall be trapped.		
1.00	PVC 110mm Pipe with all accessories	m	55
2.00	PVC 125mm Pipe with all accessories	m	60
3.00	PVC 160mm Pipe with all accessories	m	200
3.00	PVC 140mm Pipe with all accessories	m	220
4.00	PVC 200mm Pipe with all accessories	m	70
5.00	GI 8" Casing Pipe	pcs	11
6.00	Construct MANHOLE 1000x1000x1000mm out of masonry concrete round pipes for waste water drainage and rain water completed with mass concrete base 100mm thick, 80mm Unit price shall include excavation of pit and cart away. With elephant cover which will be changed by size according to the waste water discharge	No	34
D	septic tank		
	Digging and construction of ABR septic tank of 250 users with (12x5x2.42 m) made of stones masonry with internal plastering	Ls	1
1.00	supply and install lift pump with all accessories and control panel with its duty standby to main drainage centralized system	LS	1
E	FIRE FIGHTING WORKS		
	Supply and install HDPE PN16 and Galvanized pipes shall be heavy gauge galvanized mild steel pipes to B.S1387 and fittings to B.S. 1740 (class C). Price of pipework to include the cost of couplings, connectors, fixing brackets, holderbats, plugs and jointing to fittings etc., together with marking of pipe routes for wall chasing and holes cutting by others all as required in pipework installation.		
1.00	HDPE 110 mm PN16 with all accessories	Lm	330
2.00	HDPE 63 mm PN16 with all accessories	Lm	100



3.00	GI 8" pipe with all accessories	Lm	36
4.00	Construct VALVE CHAMBER in masonry, 80mm R.C cover and bar handle. Unit price shall include excavation of pit, internal plastering and cart away. Size: - 600x600mm	No	6
6.00	supply and install plastic water tank 10 cub meters elevated at existing structure equivalent, complete with float, 25mm overflow, 32mm washout, and 63mm Dia Outlet.	No	1
6.00	75mm Fire hydrant Valve, Double Outlet Type Landing Valve, foam monitor, multipurpose revolving nozzle and 110 mm stand pipe with all accessories (As per Fire Engineering brigade) with hose reel and cabinet	No	2
7.00	supply and install Electric pump, diesel engine pump and jockey pump, each pump shall have a duty of 114m ³ /hr. (500 gpm) against 11 bar pressure of head (110m-112m) as with operating Maxpower of 3-phase., Protection class: IP54 or approved equivalent.	No	1
F	<u>RAIN WATER COLLECTION</u>		
	Supply and install with testing and commissioning of waste water pipes in horizontal branches and vertical stacks made of uPVC, PN10 pipes and fittings. Fittings should include bends, tees, branches, clean outs, reducers, etc. Joints are to be done with solvent wall. All horizontal branch pipes shall be laid at a slope of minimum 1%. Unit price shall include all the necessary assistance work to the installation, such as chiseling of walls, slabs, floors etc..., and closing them with concrete. All pipes entering manholes shall be trapped.		
3.00	PVC 110mm Pipe with all accessories	m	30
4.00	PVC 125mm Pipe with all accessories	m	12
6.00	supply and install plastic water tank 10 cub meters elevated complete with float, 25mm overflow, 32mm washout, and 110mm Dia Outlet.	No	3

7.00	Construct MANHOLES out of masonry concrete round pipes for waste water drainage and rain water completed with mass concrete base 100mm thick, 80mm Unit price shall include excavation of pit and cart away. Size: 600x600mm internal average depth = 600mm max with elephant cover which will be changed by size according to the waste water and Rainwater discharge (number).	No	2
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**PROPOSED QUANTITIES FOR CONSTRUCTION WORKS FOR REMCO
EXTERNAL TOILET AND ROAD**

ITEM	DESCRIPTION	UNIT	QTY
	ROADS		L= 135 m
	SERIAL 100: GENERAL PRICE		
101	Site mobilization and Demobilization	Ls	1.00
102	Topography before, during and after works	Ls	1.00
	SERIAL 300: EARTHWORKS		
301	Cut in normal soil by mechanical means including cutting and trimming of side slopes and put in definite deposit of the surplus soil	m3	710.40
302	Cut in rocky soil	m3	0.00
303	Fill from cut	m3	0.00
304	Fill from borrow	m3	290.98
305	Preparation, leveling and finishing of the platform	m2	1,479.00
	SERIAL 400: ROAD SURFACE		
401	Foundation layer in murrum	m3	317.63
402	Base layer in crushed aggregates 0/31.5	m3	279.51
403	Prime coat	m2	1,270.50
404	DBST	m2	0.00
405	Asphalt concrete	m3	114.35
503	Kerbs - Type T2	Lm	297.00
	SERIAL 600: DRAINAGE		
601	Side drains in masonry		
601a	Stone masonry ditch	m3	177.18
601b	Concrete 250 kg/m3 for blinding concrete	m3	13.81
601c	Concrete 300 kg/m3 for bedding concrete and screed	m3	13.81
602	Supply and install of Reinforced Concrete Culverts	0	0.00
602a	Supply and install of Reinforced Concrete Culverts Ø80 including constructing its head wall and wing walls	Lm	0.00

602b	Supply and install of Reinforced Concrete Culverts Ø100 including constructing its head wall and wing walls	Lm	0.00
602c	Supply and install of Reinforced Concrete Box Culverts (1m x 1m)	m3	0.00
602d	Stone masonry for head and wing walls	m3	0.00
SERIAL 700 – MISCELLANEOUS STRUCTURES			
701	Service ducts		
701a	Supply and install of Reinforced Concrete Culverts Ø80	Lm	0.00
701b	Masonry works for ducts manholes including jointing	m3	0.00
702	Supply and fixing of reinforced concrete slabs for pedestrian crossings (12cm thickness)	m3	0.00
703	Supply and fixing of reinforced concrete slabs for vehicle crossings (20cm thickness)	m3	19.60
704	Retaining walls in stone masonry	0	0.00
704a	Stone masonry construction including jointing	m3	0.00
704b	Concrete 250 kg/m3 for blinding concrete	m3	0.00
704c	Concrete 300 kg/m3 for screed	m3	0.00
SERIAL 800 – ROAD SIGNS			
801	Vertical signs (Reflecting Aluminum sign)	U	10.00
802	Road markings	m2	405.00
803	Paint the road kerbs with white and black paint	m2	89.10
CCTV			
ITEM	DESCRIPTION	UNIT	QTY
1.00	NVR with 12port	No.	3
2.00	cable for camera	m	200
3.00	High quality imaging with 8 MP resolution Efficient H.265+ compression technology Clear imaging against strong back light due to 130 dB WDR technology Focus on human and vehicle classification based on deep learning 24/7 colorful imaging	No.	18
4.00	Supply, deliver, install, configure and commission a managed Layer 2/Layer 3, fiber switch with 8 × 10G SFP ports, minimum 52 Gbps switching capacity, supporting VLAN (802.1Q), STP/RSTP/MSTP, LACP, ACL, static routing, SNMP, and web/CLI management.	Each	3
5.00	cat7 sftp	Roll	6
6.00	hard disk 2TB	No.	3
7.00	Supply and mounting of Rack 14U Wall Mount with Accessories (PDU, Cable Manager, Mounting Hardware (set of 10 cage nuts), 1Fan Top Mount)	Each	1
8.00	INSTALLATION and accessories	Each	1

PROPOSED QUANTITIES FOR CONSTRUCTION WORKS FOR REMCO ICT			
ITEM	DESCRIPTION	UNIT	QTY
1.00	Data points installation, testing and labelling	Each	60
2.00	Fixing access point outdoor and indoor	Each	12
3.00	Supply of RJ 45 connectors for Cat 7	Each	60
4.00	supply of patch CAT 7 cords different size 10GB	Each	95
5.00	supply of LC-LC fiber patch cords different size	Each	10
6.00	Supply and mounting of Rack 14U Wall Mount with Accessories (PDU, Cable Manager, Mounting Hardware (set of 10 cage nuts), 1Fan Top Mount)	Each	3
7.00	Supply PVC pipes 25mm of 3m	LM	4320
8.00	Supply metal wall plugs (cheville metallique) M10	Each	12
9.00	supply of Angles elbow Manchon	Each	30
10.00	Supply of Data sockets single	Each	60
11.00	Supply of SFTP cable CAT; Supports Gigabit Ethernet (1000 Base-T) standard, operates at a bandwidth up to 250 Mhz, 4-pair shielded twisted pair cable, High Density Polyethylene Insulation	Box	20
12.00	Supply of SFTP Patch cords of 0.5 meter	Each	45
13.00	Supply Patch panel 24 ports CAT7	Each	3
14.00	SFTP, FTP laying cable CAT 7	m	610
15.00	Termination of cable into patch panel (Cost per Cable)	Each	45
16.00	Supply of Cable clips 25mm	Box	3
17.00	Supply, deliver, install, configure and commission a managed Layer 2/Layer 3, fiber switch with 24 × 10G SFP ports, minimum 52 Gbps switching capacity, supporting VLAN (802.1Q), STP/RSTP/MSTP, LACP, ACL, static routing, SNMP, and web/CLI management.	Each	4
18.00	GBIC (SFP MODULE)-Normal. 10gb	Each	8
19.00	802.11abgn/ac/ax Wireless Access Point with Multi-Gigabit Ethernet backhaul, 4x4:4 + 2x2:2 streams, OFDMA, MU-MIMO, Beam Flex+, dual ports, PoH/uPoE/802.3at PoE support. Does not include power adapter or PoE injector. Includes Limited Lifetime Warranty	Each	12
20.00	Fiber optical cable link for internet with router and connection	lumpsum	1
21.00	ODF 12 ports	Each	4
22.00	cable trays	LM	50
23.00	Commissioning & As-built	ff	1

3.3. FINANCIAL PROPOSAL

All bidders shall present their financial offers and these shall be competitive and must spell value for money. This shall be third criteria to be followed in the third stage of evaluation.

The financial evaluation will be conducted according to prices offered for every item as they are presented on the table attached above.

- a. Every bidder shall provide a well signed and stamped financial offer.
- b. Every offer shall be presented in the Local currency which is Rwanda francs (RWF)
- c. Proven experience (at least 3 similar projects including crane supply/installation)
- d. Financial capability documentation
- e. Quality assurance certification and warranty

The contractor must demonstrate financial stability to ensure the successful completion of the project. This includes providing:

- i. Audited financial statements for the last 2 years.
- ii. Evidence of access to sufficient working capital to complete the project within the agreed-upon timelines.

SECTION 4.1. EVALUATION CRITERIAN

- ✓ Cost & commercial terms 20%
- ✓ Technical capability 18%
- ✓ Experience & record 15%
- ✓ Methodology & workplan 12%
- ✓ Equipment & resources 10%
- ✓ Quality assurance control 10%
- ✓ Experience & truck record 8%
- ✓ Delivery time line 8%
- ✓ Site management 5%
- ✓ Health Safety & Environment 2%

4.2 QUALITY ASSURANCE CERTIFICATION AND WARRANTY

- a. Supplier must operate under ISO 9001 Quality Management System and comply with ASTM/BS/EN standards, providing all required material test certificates and inspection reports.
- b. Fabrication, welding, and manufacturing processes must follow approved standards and be supported by inspections.
- c. Valid certifications and crane compliance certificates must be submitted with the bid.
- d. A minimum warranty of **12–24 months** must be provided covering materials, workmanship, performance, and overhead crane systems.
- e. Supplier must guarantee prompt defect response, availability of spare parts for 5–10 years, and provide full technical documentation.

SECTION 5. SUBMISSION OF OFFERS

Offers must be submitted not later than 06th May 2026 at 23:59 Pm Local time, late offers will be rejected and will not be opened or considered.

- a. Offers must be submitted by email through procurement@remco.rw. Any queries must be addressed to the CEO of REMCO and sent to the same email with info@remco.rw in copy.
- b. The language to be used as the medium of communication in all the offers shall be in English.
- c. This tender shall only be valid for fifteen (7) working days.

SECTION 5. OTHER TERMS AND CONDITIONS

- a. REMCO reserves the right to visit any bidder's location/premises during tender evaluation.
- b. All bids shall be opened and evaluated in the absence of all bidders.
- c. REMCO reserves the right to reject any offer where, in its opinion, a conflict of interest exists or may arise such as influence of any kind, professional or financial relationships with employees
- d. All payments shall be made by cheque or bank transfer, in accordance with the agreed contractual terms and conditions.

e. **Site Visit**

All bidders are allowed to visit the site before the submission deadline on **Thursday, 30 April 2026, between 10:00 AM and 5:00 PM**

We are looking forward to receiving your great offers.

Sincerely



Eric NYAMUHENDA

Acting Chief Executive Officer

REMCO Ltd