



KENYA REVENUE
AUTHORITY

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1st March, 2024

RE: CLARIFICATION/ADDENDUM "SET 2"

KRA/HQS/NCB-046/2023-2024: SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF LOCAL AREA NETWORK (LAN) AND POWER BACKUP SOLUTION FOR KRA OFFICE AT CRUISE TERMINAL, KILINDINI, MOMBASA.

Kenya Revenue Authority wishes to inform prospective bidders of further clarifications made after the site visits exercise as per below.

Under **Price Schedule Forms**, the detailed **Price schedules** for **LOT I** and **LOT II** for LAN Materials has **been expunged** and **replaced with revised price** schedules denoted as "**Annex I**" and "**Annex II**".

Under **PART 2: (SUPPLY REQUIREMENTS)** Section **V** on technical specifications schedule of requirements, items **12, 14** and **15** have **been expunged** and **replaced with revised Technical specifications** denoted as "**Annex III**".

Under **LOT II** on the Scope of Works for Installation of a new power backup system for the new KRA office at Cruise Terminal at Kilindini Port - Mombasa, the list of materials and accessories have **been expunged** and **replaced** with a **revised list** of materials and accessories for the power backup installation denoted as "**Annex IV**".

A new **technical specifications table** for communication hub has been introduced and hereby denoted as "**Annex V**".

Under **LOT I**, the Minimum Technical Specifications for LAN Installation, Testing, Commissioning, Labelling, Drawings and Documentation has **been expunged** and **replaced** with a **revised specification** denoted as "**Annex VI**".

Under **LOT II** On The Labour Component For Power Backup Installation Services, the Minimum Technical Specifications For Power Backup System Installation, Testing, Commissioning, Labelling, Drawings And Documentation have been **expunged** and **replaced** with a **revised specifications** denoted as "**Annex VII**".

The above clarifications/ Addendums form part of the bidding document and is binding to all bidders. All other terms and conditions of the tender remain the same.

You are therefore required to immediately acknowledge the receipt of the same and use in your response to the tender.

Regards,

Bernard Mukundi

For DEPUTY COMMISSIONER - SUPPLY CHAIN MANAGEMENT



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"ANNEX 1"

LOT I: REVISED PRICE SCHEDULE FOR THE NETWORK INSTALLATION SERVICES

TABLE 1. PRICE SCHEDULE FOR CRUISE TERMINAL PERMANENT LAN INSTALLATION

	ITEM DESCRIPTION	QTY	UNIT COST	TOTAL COST
NO	LAN STRUCTURED CABLING MATERIALS			
1.	12 CORES SM FIBRE CABLE	250		
2.	FIBRE OPTIC ADAPTER PLATE - LC	6		
3.	CAT 6A UTP CABLE (ROLL)	65		
4.	CAT 6A UTP CABLE (ROLL) OUTDOOR	3		
5.	CAT 6A PATCH PANEL, T568A/B , 48-PORT	8		
6.	CAT 6A PATCH PANEL, T568A/B , 24-PORT	2		
7.	CAT 6A DUAL DATA OUTLETS (RJ45)	168		
8.	1M CAT 6A UTP MODULAR STRANDED T568A/B PATCH CORDS	336		
9.	3M CAT 6A UTP MODULAR STRANDED T568A/B PATCH CORDS	150		
10.	5M CAT 6A UTP MODULAR STRANDED T568A/B PATCH CORDS	50		
11.	32U FREE STANDING CABINET WITH LOCKABLE DOOR	1		
12.	250MM X50 MM PARTITIONED METAL TRUNKS, 2.4M LENGTH	200		
13.	200MM X50 MM PERFORATED CABLE TRAY IN LENGTHS, 2.4M	55		
14.	250MM SINGLE GANG SERVICE PLATES/KNOCKOUTS	168		
15.	250MM DOUBLE GANG SERVICE PLATES/KNOCKOUTS	230		
16.	1M THREADED RODS (M10)	300		
17.	300MM TRAPEZE HANGER	600		
18.	NUTS WITH WASHERS (M10) PACKET OF 100 PIECES	7		
19.	1.5KVA RACK-MOUNTED UPS	2		
20.	PROVISION A SUM FOR GYPSUM WORKS FOR CABLE ROUTING	Lot		
21.	PROVISION A SUM FOR CABINET AND EQUIPMENT RELOCATION FROM SHED 5 TO CRUISE TERMINAL	Lot		
22.	REMOVING OLD TRUNKING AT CRUISE TERMINAL	Lot		
	SUB-TOTAL (MATERIALS)			
	LABOUR COST (for below 2 items)			
1.	NEW LAN INSTALLATION	Lot		



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2.	FIBRE TERMINATION (PER CORE)	12	
23.	SUB-TOTAL (LABOUR)		
	TOTAL (LAN MATERIALS & LABOUR)		
	VAT (16%)		
	GRAND TOTAL (INCLUSIVE OF 16% VAT)		

Name of tenderer[insert complete name of tenderer]

Signature of tenderer[signature of person signing the Tender]

Date[insert date]

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"Annex II"

LOT II: PRICE SCHEDULE FOR POWER BACKUP SYSTEM

TABLE 1. PRICE SCHEDULE FOR POWER BACKUP MATERIALS AND ACCESSORIES

NO.	ITEM DESCRIPTION	QTY	UNIT COST (KSHS)	TOTAL COST (KSHS.)
1	3 KVA Inverter /Charger module	2		
2	Inverter Batteries Sealed Maintenance Free (SMF) Gel type, 2 volts 1500 AH	24		
3	Communication Hub	2		
4	Mate 3	3		
5	Battery cables, flex 70 SQ. MM	30		
6	Battery cable lugs, 50 mm SQ	48		
7	Electrical Cable - 3 CORE (TWE) Flexible 2.5 SQ. MM UK Standard	25		
8	4 way Consumer unit Complete with breakers (32 amps) mult-9/Merlin Gerlin standard.	4		
9	Input Protective Stand-alone MCB Double pole 32 Amps with enclosure/housing, wall mountable- mult-9/Merlin Gerlin standard	4		
10	Output Protective Stand-alone MCB Double pole 32 Amps with enclosure/housing, wall mountable- mult-9/Merlin Gerlin standard	4		
11	Rotary Change-Over switch 100 Amps with at least 4 poles -3 independent positions (ON 1, OFF & ON2) -PVC/Glass Re-Enforced Plastic -At least 100 Amps, /400 V ac	4		
12	Double Electrical Sockets Outlets- UK Standard with on/off switch	120		
13	Battery Rack	6		
	Sub -Total			
	LABOUR COMPONENTS			
14	Installation services for: • The PBS • New 120 sockets and wiring • 110 sockets and wiring relocation	LOT		
	Sub -Total			
	Grand Total			

Name of tenderer[insert complete name of tenderer]

Signature of tenderer[signature of person signing the Tender]

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"ANNEX III"

12. MINIMUM TECHNICAL SPECIFICATIONS FOR 250MMX50MM PARTITIONED TRUNKING

	Feature	Minimum Requirements	Bidder's response
	Material	Powder coated metal trunking with pre-punched fixing holes for permanent wall structures	
	Size	250mm by 50mm, two compartments	
	Length	2.4m	
	Gauge	1.2mm	

14. MINIMUM TECHNICAL SPECIFICATIONS FOR 250MM SINGLE GANG SERVICE PLATES/KNOCKOUTS

	Feature	Minimum Requirements	Bidder's response
	Material	Metallic and same color as trunking	
	Height	250mm	
	Width	Single Gang	
	Compatibility	Compatible with 250mm by 50mm trunking	
	Gauge	1.2mm	

15. MINIMUM TECHNICAL SPECIFICATIONS FOR 250MM DOUBLE GANG SERVICE PLATES/KNOCKOUTS

	Feature	Minimum Requirements	Bidder's response
	Material	Metallic and same color as trunking	
	Height	250mm	
	Width	Double Gang	
	Compatibility	Compatible with 250mm by 50mm trunking	
	Gauge	1.2mm	

Name of tenderer[insert complete name of tenderer]

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"ANNEX IV"

LIST OF FOR MATERIALS AND ACCESSORIES FOR THE POWER BACKUP INSTALLATION

NO.	Description
1	3 KVA Inverter /Charger module
2	Batteries Sealed Maintenance Free(SMF) Gel type, 2 volts 1500 AH
3	Communication Hub
4	Mate 3
5	Battery cables, flex 75 SQ. MM
6	Battery cable lugs, 50 mm SQ
7	Electrical Cable - 3 CORE (TWE) Flexible 2.5 SQ. MM UK Standard
8	4 way Consumer unit Complete with breakers (32 amps) mult-9/Merlin Gerlin standard.
9	Input Protective Stand-alone MCB Double pole 32 Amps with enclosure/housing, wall mountable- mult-9/Merlin Gerlin standard
10	Output Protective Stand-alone MCB Double pole 32 Amps with enclosure/housing, wall mountable- mult-9/Merlin Gerlin standard
11	Rotary Change-Over switch 100 Amps with at least 4 poles -3 independent positions (ON 1, OFF & ON2) -PVC/Glass Re-Enforced Plastic -At least 100 Amps, /400 V ac
12	Double Electrical Sockets Outlets- UK Standard with on/off switch
13	Battery Rack

Name of tenderer[insert complete name of tenderer]

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"ANNEX V"

3. MINIMUM TECHNICAL SPECIFICATIONS FOR COMMUNICATIONS HUB

No	Feature	Minimum Requirements	Bidder's Response
1	Brand	Internationally recognized mature brand Bidder MUST specify brand and model Proposed product MUST be brand new	
2	Firmware	Outback Power Systems Hub 10.3	
3	Compatibility	Mate 3	
4	Connections	10	
5	Communication	Stacking Up to 10	
6	Status Indicators:	LED indicators	
7	Warranty	At least three years	

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Date[insert date]

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**TECHNICAL SPECIFICATIONS FOR THE CRUISE TERMINAL PERMANENT LAN
INSTALLATIONSERVICES UNDER LOT 1**

**MINIMUM TECHNICAL SPECIFICATIONS FOR LAN INSTALLATION, TESTING,
COMMISSIONING, LABELING, DRAWINGS AND DOCUMENTATION.**

No	Feature	Minimum Requirements	Bidder's Response
1.	Trunking	The metal trunkings must be installed neatly as per the LAN design and the engineer's instructions. All cables must run through the trunkings.	
2.	Horizontal cabling	The horizontal cabling should be done neatly and professionally as per the LAN design and the engineer's instructions on site.	
3.	Knockouts	Provide for 168 Knockouts for Datapoints and 230 Knockouts for Power sockets	
4.	Vertical cabling	The backbone is typically done using fibre. Installation of fibre should be carried out according to the instructions of the network engineer on site. The number of cores to be terminated will be indicated in the BOQ.	
5.	Tools & accessories	The contractor must have all the tools and accessories required to install and test Local area Networks (LANs).	
6.	Quality of works	The contractor is required to provide high standard installation service and quality workmanship. Cable management must also be neatly done. The trunking joints must flush and with no gapes. Knockouts must be installed neatly with no gapes or spaces. The knockouts MUST be of the same shade as that of the trunkings.	
7.	Old cable/trunking uninstallation	The contractor will be required to carefully uninstall old cabling and/or trunking as may be required.	



8.	Equipment migration	The contractor will be required to carefully uninstall Cabinet with equipment from Shed 5 and migrate them to Cruise Terminal. This should be done carefully to avoid damaging the equipment.	
9.	Warranty	The defect liability period shall be one (1) year. The contractor will be required to return to site and rectify any defects that may occur within the defect liability period at no extra cost to the Authority.	
10.	Drawings and documentation	On completion of the works the contractor MUST provide all the relevant documentation and the LAN schematic diagram for each site.	
11.	Labeling	All the data points and ports on the Patch panels must be well labeled with Printed labels. The patch cords must also be labeled on both ends to match port numbers.	
12.	Testing and Commissioning	The Contractor is required to carry out professional tests and provide results both in printed and in soft copy. This shall apply to both copper and fibre. A joint test and commissioning will be carried out by KRA and the contractor.	

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"ANNEX VII"

LOT II: POWER BACKUP INSTALLATION SERVICES (LABOUR)

MINIMUM TECHNICAL SPECIFICATIONS FOR POWER BACKUP SYSTEM INSTALLATION, TESTING, COMMISSIONING, LABELING, DRAWINGS AND DOCUMENTATION.

No	Feature	Minimum Requirements	Bidder's Response
1	Trunking	Trunkings will be installed by the LAN contractor However , Power Contractor is required to ensure that All cables are neatly run through the trunkings.	
2	Cabling	Power cabling should be done neatly and professionally. Contractor is required to pull power cables and terminate 120 new Double gang Sockets for the clean power.	
3.	Migration of existing power Sockets	Migration of Power cables and re-termination of 110 existing double gang Power Sockets.	
4	Tools & accessories	The contractor must have all the tools and accessories required to install and test Power Backup Systems.	
5	Quality of works	The contractor is required to provide high standard installation service and quality workmanship. Cable management must also be neatly done. The trunking joints must flush and with no gapes. Knockouts must be installed neatly with no gapes or spaces. The knockouts MUST be of the same shade as that of the trunkings.	
6	Separation of Power	The contractor will be required to Separate Clean power from KPLC power at Board.	
7	Warranty	The defect liability period shall be one (1) year. The contractor will be required to return to site and rectify any defects that may occur within the defect liability period at no extra cost to the Authority.	
8	Drawings and documentation	On completion of the works the contractor MUST provide all the relevant documentation and the Power Backup System schematic diagram for each site.	

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9	Labelling	All the power sockets on the Patch panels must be well labelled with Printed labels. The patch cords must also be labelled on both ends to match port numbers.	
10	Testing and Commissioning	The Contractor is required to carry out professional tests and provide results both in printed and in soft copy. A joint test and commissioning will be carried out by KRA and the contractor.	

Name of tenderer[insert complete name of tenderer]

Signature of tenderer[signature of person signing the Tender]

Date[insert date]

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