



## ADDENDUM 3

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نمبر سند	TES/2025/G-002	
No:		
پراجیکٹ کا نام	Procurement of materials required for Rooftop Solar Photovoltaic systems of aggregate capacity 1.5MWp for household consumers	
Project:		
تاریخ	7 <sup>th</sup> September 2025	
Issued Date		
پیشکش کی تعداد	BoQ: -0	نقشہ کشی: -00
No. of Pages: -10		

Please include this amendment when submitting the bid. 

Please find attached:

- Addendum 03 for the project.

  
**Name: Aishath Nadheema**

**Signature:**

Completed



### **Addendum 03**

#### **Package Name: Procurement of materials required for Rooftop Solar Photovoltaic systems of aggregate capacity 1.5MWp for household consumers**

This Addendum 03 is issued in accordance with Sub-Clause No. 8.1 of Section 1 – Instructions to Bidders. The addendum forms part of the Bidding Document.

**1) Section 2: Bid Data Sheet  
(ITB 24.1 and 27.1, Revised as follows)**

<b>ITB 24.1</b>	<b>The deadline for bid submission is:</b> Date: <b>September 23, 2025</b> Time: <b>11:00:00 hours (Maldivian Time)</b>
<b>ITB 27.1</b>	The bid opening shall take place online via MS Teams. Date: <b>September 24, 2025</b> Time: <b>10:00:00 hours (Maldivian Time)</b>  Please visit the link below: <a href="https://teams.microsoft.com/l/meetup-join/19%3ameeting_NDliOWU2NWMtOTkyMS00NzBiLWE2ZWYtM2VkZDE2MDNiNDRj%40thread.v2/0?context=%7b%22Tid%22%3a%2242574d6e-387c-4791-9a63-d01d7bea16bf%22%2c%22Oid%22%3a%22bbf21464-aa7e-4d53-8eaf-f2f366e9fff4%22%7d">https://teams.microsoft.com/l/meetup-join/19%3ameeting_NDliOWU2NWMtOTkyMS00NzBiLWE2ZWYtM2VkZDE2MDNiNDRj%40thread.v2/0?context=%7b%22Tid%22%3a%2242574d6e-387c-4791-9a63-d01d7bea16bf%22%2c%22Oid%22%3a%22bbf21464-aa7e-4d53-8eaf-f2f366e9fff4%22%7d</a>



2) **Section 6: Schedule of Supply**

(1.List of Goods and Related Services and 2.Delivery and Completion Schedule, Revised as follows)

# 1. List of Goods and Related Services

Lot No.: Not applicable				
Name: 1.5 MWp Rooftop Solar Photovoltaic systems				
Item No.	Name of Goods or Related Services	Description	Unit of Measurement	Quantity
1	1.5 MWp Grid-connected rooftop photovoltaic systems with mono-crystalline PV modules, grid-tied string inverters, module mounting structure and balance of system components and accessories	As per technical specifications given at Sl. (3)	As per the list of systems to be supplied and bill of quantity given below	As per the list of systems to be supplied and bill of quantity given below

1) **List of systems to be supplied:**

Sl. No.	Description	Qty.	Unit
1	5 kW <sub>p</sub> grid-connected rooftop photovoltaic systems with mono-crystalline PV modules, 5 kW single-phase grid-tied string inverter, module mounting structure and balance of system components and accessories.	200	sets
2	5 kW <sub>p</sub> grid-connected rooftop photovoltaic systems with mono-crystalline PV modules, 5 kW three-phase grid-tied string inverter, module mounting structure and balance of system components and accessories.	100	sets
	Total	300	sets



**2) Bill of Quantity for 5 kW single phase system:**

Sl. No.	Description	Qty.	Unit
1	Photovoltaic (PV) Modules with mono PERC half-cut cells of individual module capacity of 400 W <sub>p</sub> – 550 W <sub>p</sub> with factory fitted 4 mm <sup>2</sup> DC lead cable with MC4 connector.	5	kW <sub>p</sub>
2	5 kW grid-tied 1-phase string inverter with 2 MPPTs, online remote monitoring system with data logging facility and mounting accessories.	1	No.
3	Flush mount type module mounting structure of anodized aluminium for installation of PV modules on Lysaght trapezoidal sheets with mounting brackets and accessories.	5	kW <sub>p</sub>
4	1 kV, 32 A, 2P, DC Isolator for string disconnection (Load breaking), din-rail type conforming to IEC 60947-2.	2	Nos.
5	440 V, 32 A, 2P AC Isolators (MCB) to disconnect inverter, din-rail type conforming to IEC/EN 60898-1.	1	No.
6	Surge Protection Device, Type II (for DC), din-rail type.	2	Nos.
7	Surge Protection Device, Type II (for AC), din-rail type.	1	No.
8	2P, 32 A RCCB, din-rail type conforming to IEC 61008-1.	1	No.
9	IP 65 enclosure for Din-rail mount devices (MCBs, RCBB, SPD, etc).	1	No
10	1 Core, 4 mm <sup>2</sup> DC cable, UV stabilized, multi-strand XLPE PVC insulated.	100	m
11	2 Core, 6 mm <sup>2</sup> , 650/1100V, copper cable from Inverter to main supply board.	25	m
12	6sqmm, 7 strand copper cable, Yellow/Green Stripped Cu/PVC for earthing.	20	m
13	6sqmm, 7 strand copper cable, Yellow/Green Stripped Cu/PVC for inverter earthing.	20	m
14	Copper Earth Rod (3/4", 6'), clamp and accessories for earth pit for equipotential bonding.	1	set
15	Copper Earth Rod (3/4", 6'), clamp and accessories for earth pit for inverter.	1	set
16	All accessories such as MC4 connectors, WEEB for equipotential bonding, stainless steel cable clips, MC4 tools and O&M tools.	1	set
17	Design diagram, connection diagram, installation manual, O&M and troubleshooting manual.	1	set

**3) Bill of Quantity for 5 kW three-phase system:**

Sl. No.	Description	Qty.	Unit
1	Photovoltaic (PV) Modules with mono PERC half-cut cells of individual module capacity of 400 W <sub>p</sub> – 550 W <sub>p</sub> with factory fitted 4 mm <sup>2</sup> DC lead cable with MC4 connector.	5	kW <sub>p</sub>
2	5 kW grid-tied 3-phase string inverter with 2 MPPTs, online remote monitoring system with data logging facility and mounting accessories.	1	No.

Sl. No.	Description	Qty.	Unit
3	Flush mount type module mounting structure of anodized aluminium for installation of PV modules on Lysaght trapezoidal sheets with mounting brackets and accessories.	5	kW <sub>p</sub>
4	1 kV, 32 A, 2P, DC Isolator for string disconnection (Load breaking), din-rail type conforming to IEC 60947-2.	2	Nos.
5	440 V, 32 A, 4P AC Isolators (MCB) to disconnect inverter, din-rail type conforming to IEC/EN 60898-1.	1	No.
6	Surge Protection Device, Type II (for DC), din-rail type.	2	Nos.
7	Surge Protection Device, Type II (for AC), din-rail type.	1	No.
8	4P, 32 A RCCB, din-rail type conforming to IEC 61008-1.	1	No.
9	IP 65 enclosure for Din-rail mount devices (MCBs, RCBB, SPD, etc).	1	No
10	1 Core, 4 mm <sup>2</sup> DC cable, UV stabilized, multi-strand XLPE PVC insulated.	100	m
11	4C x 6 mm <sup>2</sup> , 650/1100V, copper cable from Inverter to main supply board.	25	m
12	6sqmm, 7 strand copper cable, Yellow/Green Stripped Cu/PVC for earthing.	20	m
13	6sqmm, 7 strand copper cable, Yellow/Green Stripped Cu/PVC for inverter earthing.	20	m
14	Copper Earth Rod (3/4", 6'), clamp and accessories for earth pit for equipotential bonding.	1	set
15	Copper Earth Rod (3/4", 6'), clamp and accessories for earth pit for inverter.	1	set
16	All accessories such as MC4 connectors, WEEB for equipotential bonding, stainless steel cable clips, MC4 tools and O&M tools.	1	set
17	Design diagram, connection diagram, installation manual, O&M and troubleshooting manual.	1	set

**4) List of spare parts and components to be supplied:**

Sl. No.	Description	Qty.	Unit
1	Photovoltaic (PV) Modules with mono PERC half-cut cells of individual module capacity of 400 W <sub>p</sub> – 550 W <sub>p</sub> with factory fitted 4 mm <sup>2</sup> DC lead cable with MC4 connector	25	Nos.
2	5 kW grid-tied 1-phase string inverter with 2 MPPTs, online remote monitoring system with data logging facility and mounting accessories	6	Nos.
3	5 kW grid-tied 3-phase string inverter with 2 MPPTs, online remote monitoring system with data logging facility and mounting accessories	3	Nos.
4	PV module mounting brackets and accessories	12	sets
5	1 kV, 32 A, 2P, DC Isolator for string disconnection (Load breaking), din-rail type conforming to IEC 60947-2	12	Nos.



Sl. No.	Description	Qty.	Unit
6	440 V, 32 A, 2P AC Isolators (MCB) to disconnect inverter, din-rail type conforming to IEC/EN 60898-1.	6	Nos
7	440 V, 32 A, 4P AC Isolators (MCB) to disconnect inverter, IP 65, din-rail type conforming to IEC/EN 60898-1	6	Nos.
8	Surge Protection Device, Type II (for DC), din-rail type	12	Nos.
9	Surge Protection Device, Type II (for AC), din rail type	12	No.
10	2P, 32 A RCCB, din-rail type conforming to IEC 61008-1	6	No.
11	All accessories such as MC4 connectors, WEEB for equipotential bonding, stainless steel cable clips, MC4 tools and O&M tools.	24	sets
12	4P, 32 A RCCB, din-rail type conforming to IEC 61008-1	6	No.



### 5) List of Accessories

A full list of required accessories is given below:

Item	Quantity	Unit
Non-Insulated Tinned Copper O-Lug (2.5sqmm - 6mm)	15000	Nos
Non-Insulated Tinned Copper I-lug (6sqmm)	1800	Nos
Non-Insulated Tinned Copper I-lug (10sqmm)	1100	Nos
Heat Shrink Sleeve (6sqmm, Red)	300	Meter
Heat Shrink Sleeve (6sqmm, Black)	300	Meter
Heat Shrink Sleeve (6sqmm, Yellow-Green)	300	Meter
Self-Drilling SS Screw (Flat-Head, 1/2")	12000	Nos
Self-drilling SS Screw (Hex Head, 2", Full Thread)	2400	Nos
Box Wall Plug (6mm)	3600	Nos
Box Wall Plug (8mm)	3600	Nos
PVC Trunking (1.5" x 1" x 6', White)	960	Nos
Weatherproof Silicone Sealant (Sikaflex, White)	360	Nos
Weatherproof MCB Enclosure (4P)	600	Nos



## 2. Delivery and Completion Schedule

The delivery period shall start as of the date when the notification of award (Letter of Acceptance) is issued.

Item No.	Description of Goods or Related Services	Delivery Schedule (Duration)	Location	Required Arrival Date of Goods or Completion Date for Related Services
1	1.5 MWp Grid-connected rooftop photovoltaic systems with mono-crystalline PV modules, grid-tied string inverters, module mounting structure and balance of system components and accessories	4 (four) months	The successful bidder is required to supply the specified items to the designated islands listed below (subject to change), located within each designated atoll. The final delivery location will be Fenaka premises or another location as designated by Fenaka within the respective islands.	4 (four) months from contract award

### Systems to be supplied:

ATOLL	Island To be supplied to	5 kW single-phase systems	5 kW three-phase systems
HA. ATOLL	Hoarafushi	17	6
HDH. ATOLL	Kulhudhuffushi	21	10
SH. ATOLL	Maroshi	12	6
N. ATOLL	Manadhoo	11	6
R. ATOLL	Ungoofaaru	15	7
B. ATOLL	Eydhafushi	11	6
LH. ATOLL	Naifaru	10	6
M. ATOLL	Muli	5	1
F. ATOLL	Feeali	3	1
DH. ATOLL	Kudahuvadhoo	7	3
TH. ATOLL	Veymandoo	11	6
L. ATOLL	Gan	13	7
GA. ATOLL	Vilingili	11	4
GD. ATOLL	Faresmathoda	15	7
GN. ATOLL	Fuvahmulah	11	6
S. ATOLL	Hithadhoo	23	15
K. ATOLL	Huraa	4	3
		<b>200</b>	<b>100</b>

Spare parts and components to be supplied:





Sl. No.	Description	Qty.	Unit	Transfer Location
1	Photovoltaic (PV) Modules with mono PERC half-cut cells of individual module capacity of 400 W <sub>p</sub> – 550 W <sub>p</sub> with factory fitted 4 mm <sup>2</sup> DC lead cable with MC4 connector	25	Nos.	HDh. Kulhudhuffushi
2	5 kW grid-tied 1-phase string inverter with 2 MPPTs, online remote monitoring system with data logging facility and mounting accessories	6	Nos.	FENAKA Head Office, Male'
3	5 kW grid-tied 3-phase string inverter with 2 MPPTs, online remote monitoring system with data logging facility and mounting accessories	3	Nos.	FENAKA Head Office, Male'
4	PV module mounting brackets and accessories	12	sets	FENAKA Head Office, Male'
5	1 kV, 32 A, 2P, DC Isolator for string disconnection (Load breaking), din-rail type conforming to IEC 60947-2	12	Nos.	FENAKA Head Office, Male'
6	440 V, 32 A, 2P AC Isolators (MCB) to disconnect inverter, din-rail type conforming to IEC/EN 60898-1.	6	Nos	FENAKA Head Office, Male'
7	440 V, 32 A, 4P AC Isolators (MCB) to disconnect inverter, IP 65, din-rail type conforming to IEC/EN 60898-1	6	Nos.	FENAKA Head Office, Male'
8	Surge Protection Device, Type II (for DC), din-rail type	12	Nos.	FENAKA Head Office, Male'
9	Surge Protection Device, Type II (for AC), din rail type	12	No.	FENAKA Head Office, Male'
10	2P, 32 A RCCB, din-rail type conforming to IEC 61008-1	6	No.	FENAKA Head Office, Male'
11	All accessories such as MC4 connectors, WEEB for equipotential bonding, stainless steel cable clips, MC4 tools and O&M tools.	24	sets	FENAKA Head Office, Male'
12	4P, 32 A RCCB, din-rail type conforming to IEC 61008-1	6	No.	FENAKA Head Office, Male'

**Accessories be supplied:**

Item	Quantity	Unit	Transfer Location
Non-Insulated Tinned Copper O-Lug (2.5sqmm - 6mm)	15000	Nos	FENAKA Head Office, Male'
Non-Insulated Tinned Copper I-lug (6sqmm)	1800	Nos	FENAKA Head Office, Male'
Non-Insulated Tinned Copper I-lug (10sqmm)	1100	Nos	FENAKA Head Office, Male'
Heat Shrink Sleeve (6sqmm, Red)	300	Meter	FENAKA Head Office, Male'
Heat Shrink Sleeve (6sqmm, Black)	300	Meter	FENAKA Head Office, Male'
Heat Shrink Sleeve (6sqmm, Yellow-Green)	300	Meter	FENAKA Head Office, Male'
Self-Drilling SS Screw (Flat-Head, 1/2")	12000	Nos	FENAKA Head Office, Male'
Self-drilling SS Screw (Hex Head, 2", Full Thread)	2400	Nos	FENAKA Head Office, Male'
Box Wall Plug (6mm)	3600	Nos	FENAKA Head Office, Male'
Box Wall Plug (8mm)	3600	Nos	FENAKA Head Office, Male'



PVC Trunking (1.5" x 1" x 6', White)	960	Nos	Detailed breakdown in below table
Weatherproof Silicone Sealant (Sikaflex, White)	360	Nos	Detailed breakdown in below table
Weatherproof MCB Enclosure (4P)	600	Nos	Detailed breakdown in below table

ATOLL	Island To be supplied to (Tentative)	PVC Trunking	Weatherproof Silicone Sealant	Weatherproof MCB Enclosure
HA. ATOLL	Hoarafushi	69	23	46
HDH. ATOLL	Kulhudhuffushi	93	31	62
SH. ATOLL	Maroshi	54	18	36
N. ATOLL	Manadhoo	51	17	34
R. ATOLL	Ungoofaaru	66	22	44
B. ATOLL	Eydhafushi	51	17	34
LH. ATOLL	Naifaru	48	16	32
M. ATOLL	Muli	18	6	12
F. ATOLL	Feeali	12	4	8
DH. ATOLL	Kudahuvadhoo	30	10	20
TH. ATOLL	Veymandoo	51	17	34
L. ATOLL	Gan	60	20	40
GA. ATOLL	Vilingili	45	15	30
GD. ATOLL	Faresmathoda	66	22	44
GN. ATOLL	Fuvahmulah	51	17	34
S. ATOLL	Hithadhoo	114	38	76
K. ATOLL	Huraa	21	7	14
FENAKA HEAD OFFICE, Male'		60	60	0
		<b>960</b>	<b>360</b>	<b>600</b>

