PART V

FORMS OF TENDER

Form-1

(Letterhead of the Tenderer)

Questionnaire for the Tender Documents

The Project for Rehabilitation of Power Distribution System in Laamu Atoll

Tender for:

To:	Japan	International Co	ooperation System	ı (JICS)	Liaison Office in Maldives
No.	Part No.	Section No.	Paragraph No.	Page	Questions
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(Date)	
(Signature)	
(Name of Signer)	
(Title, Section, Department)	
(For and on habelf of)	

Form-2

(Letterhead of the Tenderer)

Acknowledgment of Addendum

Tender for:	The Project for Rehabilitation of Power	Distribution System in Laamu Atoll
Го:	Japan International Cooperation System	(ЛСS) Liaison Office in Maldives
	undersigned hereby, acknowledge the receip forms an integral part of the Tender Docume	ot of the following addendum and understand that this ents.
	Tender Addenda No.	Dated
	Dated this **th day of *******, 2005	
		•
		(Doto)
		(Date) (Signature)
		(Name of Signer)
		(Title, Section, Department)
		(For and on behalf of)

(FORM OF TENDER)

FORM OF TENDER

		(Day, Month, Year)
То	;	Project Manager, Project Management Department, Japan International Cooperation System (JICS)
Tender for	:	The Project for Rehabilitation of Power Distribution System in Laamu Atoll under Japan's Grant Aid 2004 in Response to the Damages Caused by the Great Earthquake off the Coast of Sumatra, the Republic of Indonesia, and by the Indian Ocean Tsunami Disaster for the Republic of Maldives
Tender Reference No). :	NPTMD04-003
accordance with all p	rovi	ing carefully examined the Tender Documents, hereby submit the tender in sions and conditions as described in the Tender Documents. offer tender price as mentioned below,
Total DDU-Sites Price	e:	United States Dollar (in figures)
Total DDU-Sites Price	ce :	United States Dollar (in figures)United States Dollar (in words)
Total DDU-Sites Price 2. Validity of Tene This Tender is v	ler	United States Dollar (in words)

Schedule I: BREAKDOWN OF TENDER PRICE (1)

(The Goods and Installation & Commissioning Works for Laamu Isdhoo Island)
Name of the Project The Project for Rehabilitation of Power Distribution System in Laamu Atoll

						Unit Price (US\$)	-	# 	Total Price (US\$)	
Items	Quantity	Manufacturer	Model No. (if any)	Country of Origin	E GB	Freight		- C	Contrabe	i
	· 医克里克氏				30584.75cm.2565447	22	1		į,	装
	m ,									
1.2) Main Distribution Cables 4 cores 70 sq.mm	500									
1.3) Main Distribution Cables 4 cores 50 sq.nm	1000									
1.4) Main Distribution Cables 4 cores 35 sq.nm	2300									
1.5) Main Distribution Cables 4 cores 25 sq.mm	1500									
1.6) Branch Distribution Cables 4 cores 16 sq.mm	200									
1.7) Branch Distribution Cables 2 cores 6 sq.mm	19750								<u> </u>	
	Units									
21) Type 1 (5 MCCBs) Feeder Pillars	2 3									
2.2) Type 2 (18 MCBs) completed box	9									
2.3) Type 3 (12 MCBs) completed box	32									
3. Accessories	N									
3.1) PVC glands for 4 core 70 sq.mm copper cables	12									
3.2) PVC glands for 4 core 50 sq.mm copper cables	24									
3.3) PVC glands for 4 core 35 sq.mm copper cables	52								!	
3.4) PVC glands for 4 core 25 sq.mm copper cables	32									
3.5) PVC glands for 4 core 16 sq.mm copper cables	12									
3.6) PVC glands for 2 core 6 sq.mm copper cables	200	-,								!
3.7) Copper lugs 70 sq.mm with 12mm dia (terminal bott connecting hole)	12									
3.8) Copper lugs 50 sq.mm with 12mm dia (terminal bolt connecting hole)	76								i	
3.9) Copper lugs 35 sq.mm with 12mm dia (terminal bolt connecting hole)	152									

Schedule I: BREAKDOWN OF TENDER PRICE (1)

(The Goods and Installation & Commissioning Works for Laamu Isdhoo Island)
Name of the Project: The Project for Rehabilitation of Power Distribution System in Laamu Atoll

Amay	Onantity	Manufacturer	Model No. (if any)	Country of Origin		Unit Price (US\$)			Total Price (US\$)	
	·				FOB	Freight	nga	FOB	Freight	naa
3.10) Copper lugs 25 sq.mm with 12mm dia (terminal bolt connecting hole)	120									
3.11) Lug sleeves 70 sq.mm (red color)	14				j					
3.12) Lug sleeves 70 sq.mm (yellow color)	14									
3.13) Lug sleeves 70 sq.mm (blue color)	14									
3.14) Lug sleeves 70 sq.mm (black color)	14									
3.11) Lug sleeves 50 sq.mm (red color)	80									
3.12) Lug sleeves 50 sq.mm (yellow color)	80									
3.13) Lug sleeves 50 sq.mm (blue color)	80	-								
3.14) Lug sleeves 50 sq.mm (black color)	. 08									
3.15) Lug sleeves 35 sq.mm (red color)	160				•					5 5 5 5 5 5
3.16) Lug sleeves 35 sq.mm (yellow color)	160									
3.17) Lug sleeves 35 sq.mm (blue color)	160								i	
3.18) Lug sleeves 35 sq.mm (black color)	160									
3.19) Lug sleeves 25 sq.mm (red color)	130									
3.20) Lug sleeves 25 sq.mm (yellow color)	130					_				
3.19) Lug sleeves 25 sq.mm (blue color)	130									
3.20) Lug sleaves 25 sq.mm (black color)	130									
3.21) Roll insulation tape (black color)	100									
3.22) Roll scotch tape	4									
3.23) Cable ties 300 mm length	456									
3,24) Cable ties 150 mm length	456	-								

Schedule I: BREAKDOWN OF TENDER PRICE (1)
(The Goods and Installation & Commissioning Works for Laamu Isdhoo Island)
Name of the Project: The Project for Rehabilitation of Power Distribution System in Laamu Atoll

						•				
Herns	Quantity	Manufacturer	Model No. (if any)	Country of Origin		Unit Price (US\$)			Total Price (US\$)	
				,	FOB	Freight	naa	FOB	Freight	nga
4.Tools	Ņ									
4.1) Level indicator 12"	2									
4.2) Screwdriver 12" (-)	2									
4.3) Screwdriver 12" (+)	z			-						
4.4) Screwdriver 6" (-)	2									
4.5) Screwdriver 6" (+)	2									
4.6) Philips voltage neon light testers 6"	2									
4.7) Pliers 12"	2									
4.8) Side cutlers normal size	۶ ،									
4.9) Cable cutters medium size	2			:						
4.10) Hacksaw frames	2			:						
4.11) Hacksaw blades (high speed)	12									
4.12) NT cutters	2									
4.13) NT cutter blade packets	4									
4.14) Adjustable wrech 6" adjustable range	. 2				_					
4.15) Adjustable wrech 8" adjustable range	2									
4.16) Elankee set 24 piece set	2									
4.17) Hammers 01 lb	2				·					
4.18) Hammers 02 lb	2									
4.19) Hammers 18 lb	-									

Schedule I: BREAKDOWN OF TENDER PRICE (1)
(The Goods and Installation & Commissioning Works for Laamu Isdhoo Island)
Name of the Project: The Project for Rehabilitation of Power Distribution System in Laamu Atoli

Small	Quantity	Manufacturer	Model No. (if any)	Country of Origin		Unit Price (US\$)		 	Total Price (US\$)	
•				,	FOB	Freight	naa	FOB	Freight	DOO
4.20) Alignment indicator with 3m rope (Olanbu) metal typ	2									
4.21) Measuring wheel 100m	1									
4.22) Measuring wheel 10m	1									
4.23) Empty PVC big size tool box (200mm height, 600mm length, 200mm depth at least)	1									
5. Installation Materials and commissioning works	Nr and lots									
5.1) Brass screws 2" x 12no.	184									
5.2) Self tap screws 2" x 12 no.	184									
5.3) Wall plus 06 mm dia, 50 mm length	220				-		 -			
5.4) Metal type round saw set which shall include 25 mm, 30 mm, 35 mm, 50 mm, 75mm, 100mm cutting dies	s						-			
c/w other accessories.	2						İ			
5.5) Casie ues 200 illili erigai	504									
5.6) Unit water Pump (petrol used as fuel) 50 mm pipe dia	٥									
5.7) Met hose, PVC rigid Spiral 2"	20m			ļ						
5.8) Met hose, PVC discharged 2" (Superhose)	70m									
5.9) Foot valve	2									
5.10) Hase clip	8									
5.11) Ring hose Clip	8									
5.12) Tool	01 unit									
5.13) Petrol drums for the water with petrols 200 fitrs drums	. 2								j	

Schedule I: BREAKDOWN OF TENDER PRICE (1)
The Goods and Installation & Commissioning Works for Laamu Isd

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SXC	nof
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issic	ect for Rehabilitati
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Ε	Z

lens .	Quantity	Manufacturer	Model No. (if any)	Country of Origin		Unit Price (US\$)	•	L	Total Price (US\$)	
					FOB	Freight	nga	FOB	Freight	nga
5.14) All other materials required to complete the										
installation of the DBs, connection of the incoming,										-
outgoing and all consumer cables to the DBs.	-									
5.15) Install all the DBs on the concrete frames	42									
5.16) Cement bags (50kg)	80									
5.17) Install all the PVC glands to the DBs	01 lot									
5.18) Connect all the main cables to the DBs terminals	O1 fot									
5.19) Connect all the consumer cables to the DBs	01 lot									
5.20) Label all the consumers and main cables of the DB	01 lot									
5.21) Connect all the main cables to the existing switchboard and new feeder pillars which will be installed inside the PIH control room or the new switchboard and the new feeder pillars. If it is a switchboard the installation of the switchboard will be completed by the pilent	, 01 lot									
5.22 Connect all the consumer cables to the existing consumer KWH meter boards and new KWH meter boards.	01 lot									
5.23) Commission the distribution network	01 lot				,					
5.24) Commission all the consumers of the island to the new distribution network	. 01 lot		,							
5.25) Seal the spare glands of the DBs with silicons	01 lot									
5.26) Label all the DB from the external side of the front door.	01 lot									
5.27) Hand over the distribution network to the client	01 lot									
Total										

•			
,		(Date)	
		•	

(Title, Section, Department)

(For and on be

(Name of Signer)

(Signature)

Schedule I: BREAKDOWN OF TENDER PRICE (2)
(The Goods and Installation & Commissioning Works for Laamu Isdhoo-Kalaidhoo Island)
Name of the Project The Project for Rehabilitation of Power Distribution System in Laamu Atoll

Monte	Affacilo	Manufacturer	Model No. (if any)	Country of Origin	1	Unit Price (US\$)		P	Total Price (US\$)	
7	Î			7	FOB	Freight	naa	FOB	Freight	חממ
1 Low Voliage Cables	· · · ·									
1.3) Main Distribution Cables 4 cores 50 sq.mm	1100									
1.4) Main Distribution Cables 4 cores 35 sq.mm	2600							,		
1.6) Branch Distribution Cables 4 cores 16 sq.mm	200									
1.7) Branch Distribution Cables 2 cores 6 sq.mm	14000									
2 Distribution Box	Units									
2.1) Type 1 (5 MCCBs) Feeder Pillars	,-									
2.2) Type 2 (18 MCBs) completed box	9	n								
2.3) Type 3 (12 MCBs) completed box	22									
3 Accessories	ż									
3.1) PVC glands for 4 core 50 sq.mm copper cables	24									
3.2) PVC glands for 4 core 35 sq.mm copper cables	75 9									
3.3) PVC glands for 4 core 16 sq.mm copper cables	12		:							
3.4) PVC glands for 2 core 6 sq.mm copper cables	400									
3.5) Copper lugs 50 sq.mm with 12mm dia (terminal bolt connecting hole)	112									
3.6) Copper lugs 35 sq.mm with 12mm dia (terminal bolt connecting hole)	184									
3.7) Lug sleeves 50 sq.mm (red color)	32									
3.8) Lug sleeves 50 sq.mm (yellow color)	32									
3.9) Lug steeves 50 sq.mm (blue color)	32	, l								

Schedule I: BREAKIDOWN OF TENDER PRICE (2)
(The Goods and Installation & Commissioning Works for Laamu Isdhoo-Kalaidhoo Island)
Name of the Project: The Project for Rehabilitation of Power Distribution System in Laamu Atoll

	,	Moorfooting	Model No. (if smv.) Country of Origin	Country of Origin		Unit Price (US\$)		<u> </u>	Total Price (US\$)	
IREITIS	quantità	Maliaiaciniei	model two. (in any)		FOB	Freight	naa	FOB	Freight	. DDU
3.10) Lug sleeves 50 sq.mm (black color)	32									
3.11) Lug sleeves 35 sq.mm (red color)	72									
3.12) Lug steeves 35 sq.mm (yellow color)	72	-								
3.13) Lug sleeves 35 sq.mm (blue color)	72									
3.14) Lug sleeves 35 sq.mm (black color)	72									
3.15) Roll insulation tape (black color)	100									
3.16) Roll scotch tape	4									
3.17) Cable ties 300 mm length	400	,								
3.18) Cable ties 150 mm length	400									
4.Tools	Ŋċ									
4.1) Level indicator 12"	2	:								
4.2) Screwdriver 12" (-)	2					. ,				
4.3) Screwdriver 12" (+)	2									·
4.4) Screwdriver 6" (-)	2									
4.5) Screwdriver 6" (+)	2									
4.6) Philips voltage neon light testers 6"	2									
4.7) Pilers 12"	2									
4.8) Side cutters normal size	2									
4.9) Cable cutters medium size	2									

Schedule I: BREAKDOWN OF TENDER PRICE (2)
(The Goods and Installation & Commissioning Works for Laamu Isdhoo-Kalaidhoo Island)
Name of the Project: The Project for Rehabilitation of Power Distribution System in Laamu Atoll

- I Among	4	A Company of the Comp	Model No. 15 counts of Counts	o initial		Unit Price (US\$)		<u> </u>	Total Price (US\$)	
ובנווים					FOB	Freight	naa	FOB	Freight	naa
4.10) Hacksaw frames	2									
4.11) Hacksaw blades (high speed)	12									
4.12) NT cutters	2									
4.13) NT cutter blade packets	4									
4.14) Adjustable wrech 6" adjustable range	2									
4.15) Adjustable wrech 8" adjustable range	2									
4.16) Elankee set 24 piece set	2									
4.17) Hammers 01 lb	2	c								
4.18) Hammers 02 lb	2									
4.19) Hammers 18 lb	-				:					
4.20) Alignment indicator with 3m rope (Olanbu) metal	2									
4.21) Measuring wheel 100m	1									
4.22) Measuring wheel 10m	1									
4.23) Empty PVC big size tool box (200mm height, 600mm tength, 200mm depth at least)	1		٠							
5. Installation Materials and commissioning works	Nr. and lot									
5.1) Brass screws 2" x 12no.	150									
5.2) Self tap screws 2" x 12 no.	150									
5.3) Wall plus 06 mm dia, 50 mm length	220									
5.4) Metal type round saw set which shall include 25 mm, 30 mm, 35 mm, 50 mm, 75mm, 100mm cutting dies row other acressories										
dies our dules accessories.	7		-							

Schedule I: BREAKDOWN OF TENDER PRICE (2)
(The Goods and Installation & Commissioning Works for Laamu I

(The Goods and Installation & Commissioning Works for Laamu Isdhoo-Kalaidhoo Island) Name of the Project: The Project for Rehabilitation of Power Distribution System in Laamu Atoll

frams	Ouantity	Manufacturer	Model No. (if any)	Model No. (if any) Country of Origin		Unit Price (US\$)			Total Price (US\$)	
					FOB	Freight	DDU	FOB	Freight	nga
5.5) Cable ties 200 mm length	420									
5.6) Unit water Pump (petrol used as fuel) 50 mm pipe dia	2									
5.7) Met hose, PVC rigid Spiral 2"	20m									
5.8) Met hose, PVC discharged 2" (Superhose)	70m									
5.9) Foot valve	2									
5.10) Hose clip	80				<u> </u>					
5.11) Ring hose Clip	80									
5.12) Tool	01 unit	٠								
5.13) Petrol drums for the water with petrols 200 litrs drums	2									
5.14) All other materials required to complete the installation of the DBs, connection of the incoming, outcoing and all consumer cables to the DBs.	-									
5.15) Install all the DBs on the concrete frames	29									
5.16) Cement bags (50kg)	58									
5.17) Install all the PVC glands to the DBs	01 lot									
5.18) Connect all the main cables to the DBs terminals	01 fot									
5.19) Connect all the consumer cables to the DBs	01 lot	:								
5.20) Label all the consumers and main cables of the I	01 lot									
5.21) Connect all the main cables to the existing switchboard and new feeder pillars which will be installed inside the P/H control room or the new switchboard and the new feeder pillars. If it is a switchboard the installation of the switchboard will be completed by the cilent.	01 lot									

Schedule, I: BREAKDOWN OF TENDER PRICE (2)

Name of the Project: The Project for Rehabilitation of Power Distribution System in Laamu Atoll (The Goods and Installation & Commissioning Works for Laamu Isdhoo-Kalaidhoo Island)

		S Control of the cont		_	Unit Price (US\$)			Total Price (US\$)	
CHAN	- dualinus		· · · · · · · · · · · · · · · · · · ·	FOB	Freight	nga	FOB	Freight	חמם
5.22) Connect all the consumer cables to the existing consumer KWH meter boards and new KWH meter boards.	01 lot								
5.23) Commission the distribution network	O1 lot								
5.24) Commission all the consumers of the island to the new distribution network	01 lot								
5.25) Seal the spare glands of the DBs with silicons	D1 lot			•					
5.26) Label all the DB from the external side of the front door.	01 lot								
5.27) Hand over the distribution network to the client	01 lot								:
						,			
Total									

	(Date)	(Signature)

(Title, Section, Department) (Name of Signer)

Schedule I: BREAKDOWN OF TENDER PRICE (3)
(The Goods and Installation & Commissioning Works for Laamu Maabaidhoo Island)
Name of the Project: The Project for Rehabilitation of Power Distribution System in Laamu Atoll

	- C	Manifortime	Model No (if am) Country of Origin	Country of Orlain	-	Unit Price (US\$)		12	Total Price (US\$)	
STIGN	range min	maildiathre	(and) .		FOB	Freight	nga	FOB	Freight	naa
1:Low Vollage Cables	, m									
1.5) Main Distribution Cables 4 cores 25 sq.mm	1900									
1.6) Branch Distribution Cables 4 cores 16 sq.mm	300									
1.7) Branch Distribution Cables 2 cores 6 sq.mm	13500			-						
2. Distribution Box	Units									
2.1) Type 1 (5 MCCBs) Feeder Pillars	-									
2.2) Type 2 (18 MCBs) completed box	12									
2.3) Type 3 (12 MCBs) completed box	10									
3. Accessories	N.									
3.1) PVC glands for 4 core 25 sq.mm copper cables	65									
3.2) PVC glands for 4 core 16 sq.mm copper cables	12									
3.4) PVC glands for 2 core 6 sq.mm copper cables	364	٠						,		
3.6) Copper lugs 25 sq.mm with 12mm dia (terminal bolt connecting hole)	186									
3.7) Lug sleeves 25 sq.mm (red color)	54									
3.8) Lug sleeves 25 sq.mm (yellow color)	54									

Schedule I: BREAKDOWN OF TENDER PRICE (3)
(The Goods and Installation & Commissioning Works for Laamu Maabaidhoo Island)
Name of the Project: The Project for Rehabilitation of Power Distribution System in Laamu Atoll

smell	Quantity	Manufacturer	Model No. (if any) Country of Origin	Country of Origin		Unit Price (US\$)		T.	Total Price (US\$)	
				1	FOB	Freight	חמם	FOB	Freight	naa
3.9) Lug sleeves 25 sq.mm (blue color)	54									
3.10) Lug sleeves 25 sq.mm (black color)	54									
3.15) Roll insulation tape (black color)	100									
3.16) Roll scotch tape	4									
3.17) Cable ties 300 mm length	400									
3.18) Cable ties 150 mm length	400									
4. Tools	Ž									
4.1) Level indicator 12"	2 ,									
4.2) Screwdriver 12" (-)	2									
4.3) Screwdriver 12" (+)	2									
4.4) Screwdriver 6" (-)	2									
4.5) Screwdriver 6" (+)	7									
4.6) Philips voltage neon light testers 6"	2									
4.7) Pliers 12"	2									
4.8) Side cutters normal size	2			:						
4.9) Cable cutters medium size	2									
4.10) Hacksaw frames	2									
						:				

Schedule I: BREAKDOWN OF TENDER PRICE (3)
(The Goods and Installation & Commissioning Works for Laamu Maabaidhoo Island)
Name of the Project: The Project for Rehabilitation of Power Distribution System in Laamu Atoll

smet.	Ouantity	Manufacturer	Model No. (if any) Gountry of Origin	Country of Origin	ח	Unit Price (US\$)		Ţ	Total Price (US\$)	
		•			FOB	Freight	naa	FOB	Freight	ngg
4.11) Hacksaw blades (high speed)	12									
4.12) NT cutters	2									
4.13) NT cutter blade packets	4									
4.14) Adjustable wrech 6" adjustable range	2									
4,15) Adjustable wrech 8" adjustable range	2									
4.16) Elankee set 24 piece set	2						-			
4.17) Hammers 01 lb	2									
4.18) Hammers 02 lb	2									
4.19) Hammers 18 lb	1					*****				
4.20) Alignment indicator with 3m rope (Olanbu) metal type	2									
4.21) Measuring wheel 100m	1									
4.22) Measuring wheel 10m	-									
4.23) Empty PVC big size tool box (200mm height, 600mm length, 200mm depth at least)	+-									
6 Installation Materials and commissioning works:	Nr and lots									
5.1) Brass screws 2" x 12no.	135									
5.2) Self tap screws 2" x 12 no.	135									
5.3) Wall plus 06 mm dia, 50 mm length	260									
5.4) Metal type round saw set which shall include 25 mm, 30 mm, 35 mm, 50 mm, 75mm, 100mm cutting dies c/w other accessories.	2	•								
5.5) Cable lies 200 mm length	300									

Schedule I: BREAKDOWN OF TENDER PRICE (3)
(The Goods and Installation & Commissioning Works for Laamu Maabaidhoo Island)
Name of the Project: The Project for Rehabilitation of Power Distribution System in Laamu Atoll

	. Since of	Manufarturer	Model No. (if any)	Model No. (if any) Country of Orlain	1	Unit Price (US\$)		Т	Total Price (US\$)	
\$1191				,	FOB	Freight	naa	FOB	Freight	חמם
5.6) Unit water Pump (petrol used as fuel) 50 mm pipe dia	2									
5.7) Met hose, PVC rigid Spiral 2"	20m									
5.8) Met hose, PVC discharged 2" (Superhose)	i s									
5.9) Foot valve										
5.10) Hose clip	1 80									
5.11) Ring hose Clip	89									•
5.12) Tool	01 unit									
5.13) Petrol drums for the water with petrols 200 litrs drums	, 0									
5.14) All other materials required to complete the installation of the DBs, connection of the incoming, outgoing and all consumer cables to the DBs.	-									
5.15) Install all the DBs on the concrete frames	24									
5.16) Cement bags (50kg)	46									
5.17) Install all the PVC glands to the DBs	01 lot		,							
5.18) Connect all the main cables to the DBs terminals	01 lot									
5.19) Connect all the consumer cables to the DBs	O1 lot									
5.20) Label all the consumers and main cables of the DBs	01 lot									
5.21) Connect all the main cables to the exisiting switchboard and new feeder pillars which will be installed inside the P/H control room or the new switchboard and the new feeder pillars. If it is a switchboard the installation of the switchboard will be completed by the client.	01 lot									

063 /

139

Schedule I: BREAKDOWN OF TENDER PRICE (3)
(The Goods and Installation & Commissioning Works for Laamu Maabaidhoo Island)
Name of the Project: The Project for Rehabilitation of Power Distribution System in Laamu Atoll

					_	Unit Price (US\$)		_	Total Price (US\$)	
Items	Quantity	Manufacturer	Model No. (if any)	Model No. (if any) Country of Origin	FOB	Freight	DOO	FOB	Freight	naa
5.22) Connect all the consumer cables to the existing	20 III									
Assessment KWH meter boards and new KWH meter boards.										
5.23) Commission the distribution network	01 lot									
5.24) Commission all the consumers of the Island to the	01 lot									į
new distribution network 5.25) Seal the spare glands of the DBs with silicons	. 01 lot									
5.26) Label all the DB from the external side of the front door.	01 lot									
5.27) Hand over the distribution network to the client	01 lot									-
Total										

(Date)
(Signature)
(Name of Signer)
(Title, Section, Department)
(For and on be

Name of the Project: The Project for Rehabilitation of Power Distribution System in Laamu Atoll (The Goods and Installation & Commissioning Works for Laamu Gan-Mukurimagu Island) Schedule I. BREAKDOWN OF TENDER PRICE (4)

Parte	Orantity	Manufacturer	Model No. (if any)	Country of Origin		Unit Price (US\$)		Ē	Total Price (US\$)	
					FOB	Freight	naa	FOB	Freight	nga
1: Low Voltage Cables	w w									
1.1) Main Distribution Cables 4 cores 120 sq.mm	900									
1.4) Main Distribution Cables 4 cores 35 sq.mm	1000									
1.5) Main Distribution Cables 4 cores 25 sq.mm	4150									
1.6) Branch Distribution Cables 4 cores 16 sq.mm	250									
1.7) Branch Distribution Cables 2 cores 6 sq.mm	20200									
2: Distribution Box	Units									
2.1) Type 1 (5 MCCBs) Feeder Pillars	2							·		
2.2) Type 2 (18 MCBs) completed box	10							•		
2.3) Type 3 (12 MCBs) completed box	23									
3: Accessories ?	Nr									
3.1) PVC glands for 4 core 120 sq.mm copper cables	12									
3.2) PVC glands for 4 core 35 sq.mm copper cables	18									
3.3) PVC glands for 4 core 25 sq.mm copper cables	22									
3.4) PVC glands for 4 core 16 sq.mm copper cables	12									
3.5) PVC glands for 2 core 6 sq.mm copper cables	470									
3.6) Copper lugs 120 sq.mm with 12mm dia (terminal bolt connecting hole)	12									
3.7) Copper lugs 35 sq.mm with 12mm dia (terminal bolt connecting hole)	60	<u>.</u>								

Name of the Project: The Project for Rehabilitation of Power Distribution System in Laamu Atoll (The Goods and Installation & Commissioning Works for Laamu Gan-Mukurimagu Island) Schedule I: BREAKDOWN OF TENDER PRICE (4)

71	, different	Manufacturor	Model No (if any) Country of Origin	Country of Origin	_	Unit Price (US\$)			Total Price (US\$)	
	Qualitity				FOB	Freight	naa	FOB	Freight	nga
3.8) Copper lugs 25 sq.mm with 12mm dia (terminal bolt connecting hole)	192	:								
3.9) Lug sleeves 120 sq.mm (red color)	4									
3.10) Lug sleeves 120 sq.mm (yellow color)	4		•		, , , , , , , , , , , , , , , , , , ,					
3.11) Lug sleeves 120 sq.mm (blue color)	4							•		
3.12) Lug sleeves 120 sq.mm (black color)	4	,								
3.13) Lug sleeves 35 sq.mm (red color)	15									
3.14) Lug sleeves 35 sq.mm (yellow color)	15	¢.		·						
3.15) Lug sleeves 35 sq.mm (blue color)	15									
3.16) Lug sleeves 35 sq.mm (black color)	15									
3.17) Lug sleeves 25 sq.mm (red color)	48									
3.18) Lug sleeves 25 sq.mm (yel)ow color)	48									
3.19) Lug sleeves 25 sq.mm (blue color)	48									
3.20) Lug sieeves 25 sq.mm (black color)	48								,	
3.21) Roll insulation tape (black color)	. 99									
3.22) Roil scotch tape	4								<u>.</u> :	
3.23) Cable ties 300 mm length	400									
3.24) Cable ties 150 mm length	400									
4.Tools	N.									

Name of the Project: The Project for Rehabilitation of Power Distribution System in Laamu Atoll (The Goods and Installation & Commissioning Works for Laamu Gan-Mukurimagu Island) Schedule I: BREAKDOWN OF TENDER PRICE (4)

Home	Ouantify	Manufacturer	Model No. (if any) Country of Origin	Country of Origin		Unit Price (US\$)			Total Price (US\$)	
					FOB	Freight	DDU	FOB	Freight	naa
4.1) Level indicator 12"	2									
4.2) Screwdriver 12" (-)	2									
4.3) Screwdriver 12" (+)	2									
4.4) Screwdriver 6" (-)	2				,					
4.5) Screwdriver 6" (+)	2									
4.6) Philips voltage neon light testers 6"	2								i	
4.7) Piiers 12"	2				,					
4.8) Side cutters normal size	2									
4.9) Cable cutters medium size	2			٠						
4.10) Hacksaw frames	2									
4.11) Hacksaw blades (high speed)	12									
4.12) NT cutters	2									
4.13) NT cutter blade packets	4									
4.14) Adjustable wrech 6" adjustable range	2									
4.15) Adjustable wrech 8" adjustable range	2									
4.16) Elankee set 24 piece set	7				,					
4.17) Hammers 01 lb	2		•							
4.18) Hammers 02 lb	2	4 1 4								

Name of the Project: The Project for Rehabilitation of Power Distribution System in Laamu Atoll (The Goods and Installation & Commissioning Works for Laamu Gan-Mukurimagu Island) Schedule I: BREAKDOWN OF TENDER PRICE (4)

	, iii	Manufacturor	Model No / Heary)	Country of Origin		Unit Price (US\$)		F .	Total Price (US\$)	
	Angrint)		model (10 m)		FOB	Freight	חממ	FOB	Freight	naa
4.19) Hammers 18 lb	1			·						
4.20) Alignment indicator with 3m rope (Olanbu) meta	2									
4.21) Measuring wheel 100m	1									
4.22) Measuring wheel 10m	į.									
4.23) Empty PVC big size tool box (200mm height, 600mm length, 200mm depth at least)	1									
S Installation Materials and commissioning works	Nr. and lots									
5.1) Brass screws 2" x 12no.	164									
5.2) Self tap screws 2".x 12 no.	164				,					
5.3) Wall plus 06 mm dia, 50 mm length	200	n								
5.4) Metal type round saw set which shall include 25										
mm, 30 mm, 35 mm, 50 mm, 75mm, 100mm cutting										-
dies c/w other accessories.	2									İ
5.5) Cable ties 200 mm length	480									
5.6) Unit water Pump (petrol used as fuel) 50 mm pipe	2									
5.7) Met hose, PVC rigid Spiral 2"	20m									
5.8) Met hose, PVC discharged 2" (Superhose)	70m									
5.9) Foot valve	2									
5.10) Hose clip	8									
5.11) Ring hose Clip	80									
5.12) Tool	01 unit									
5.13) Petrol drums for the water with petrols 200 litrs										,
drums	2		į							
5.14) All other materials required to complete the						•				
installation of the DBs, connection of the incoming,										
outgoing and all consumer cables to the DBs.	-									
5.15) Install all the DBs on the concrete frames	32									
5.16) Cement bags (50kg)	68									
5.17) Install all the PVC glands to the DBs	01 lot									

Name of the Project: The Project for Rehabilitation of Power Distribution System in Laamu Atoll (The Goods and Installation & Commissioning Works for Laamu Gan-Mukurimagu Island) Schedule I: BREAKDOWN OF TENDER PRICE (4)

lems	Quantify	Manufacturer	Model No. (if any) Country of Origin	Country of Origin		Unit Price (US\$)		1	Total Price (US\$)	
			•	•	FOB	Freight	naa	FOB	Freight	naa
5.18) Connect all the main cables to the DBs terminals	01 lot									
5.19) Connect all the consumer cables to the DBs	01 lot									
5.20) Label all the consumers and main cables of the	O1 lot									
5.21) Connect all the main cables to the existing switchboard and new feeder pillars which will be installed inside the P/H control room or the new switchboard and the new feeder pillars. If it is a switchboard the installation of the switchboard will be completed by the client.	O1 lot		·							
5.22) Connect all the consumer cables to the exisiting consumer KWH meter boards and new KWH meter boards.	01 lot	•								
5.23) Commission the distribution network	01 lot									
5.24) Commission all the consumers of the island to the new distribution network	01 lot									
5.25) Seal the spare glands of the DBs with silicons	O1 tot									
5.26) Label all the DB from the external side of the front door.	01 lot									
5.27) Hand over the distribution network to the client	01 lot									
Total										

26) Label all the DB from the external side of the front or.	01 lot					
27) Hand over the distribution network to the client	01 lot					
itat						

(Date)	(Signature)	(Name of Signer)	(Title, Section, Department)	(For and on be
4	9	9	4	9

Schedule I: BREAKDOWN OF TENDER PRICE (5)

(The Goods and Installation & Commissioning Works for Laamu Maavah Island) Name of the Project: The Project for Rehabilitation of Power Distribution System in Laamu Atoll

or ref	diffe	Manufacturar	Model No. (if any) Country of Origin	Country of Origin	n 	Unit Price (US\$)		Τ	Total Price (US\$)	
				,	FOB	Freight	nga	FOB	Freight	naa
1. Low.Volláge Gables	, w									
1.5) Main Distribution Cables 4 cores 25 sq.mm	3750									
1.6) Branch Distribution Cables 4 cores 16 sq.mm	300									
1.7) Branch Distribution Cables 2 cores 6 sq.mm	12300									
2. Distribution Box	Unite									
2.1) Type 1 (5 MCCBs) Feeder Pillars	1									
2.2) Type 2 (18 MCBs) completed box	13							İ	•	
2.3) Type 3 (12 MCBs) completed box	22									
3: Accessories, 2-	N									
3.1) PVC glands for 4 core 25 sq.mm copper cables	65									
3.2) PVC glands for 4 core 16 sq.mm copper cables	12									
3.4) PVC glands for 2 core 6 sq.nm copper cables	364									
3.6) Copper lugs 25 sq.mm with 12mm dia (terminal bolt connecting hole)	186									
3.7) Lug sleeves 25 sq.mm (red color)	54		İ					*****		
3.8) Lug sleeves 25 sq.mm (yellow color)	54									
3.9) Lug sleeves 25 sq.mm (blue color)	54									
3.10) Lug sleeves 25 sq.mm (black color)	54									
3.15) Roll insulation tape (black color)	100									
3.16) Roll scotch tape	4									

Schedule I: BREAKDOWN OF TENDER PRICE (5)

(The Goods and Installation & Commissioning Works for Laamu Maavah Island) Name of the Project: The Project for Rehabilitation of Power Distribution System in Laamu Atoll

- Ima	Quantity	Manufacturer	Model No. (If any)	Country of Orlain	ָ רָ	Unit Price (US\$)		Ι.	Total Price (US\$)	
					FOB	Freight	חמם	FOB	Freight	naa
3.17) Cable ties 300 mm length	400									
3.18) Cable ties 150 mm length	400									
4.itoolis	Ni									
4.1) Level indicator 12"	2									
4.2) Screwdriver 12" (-)	2									
4.3) Screwdriver 12" (+)	2									
4.4) Screwdriver 6" (-)	2									
4.5) Screwdriver 6" (+)	2 ,									
4.6) Philips voltage neon light testers 6"	2									
4.7) Pliers 12"	2									
4.8) Side cutters normal size	2									
4.9) Cable cutters medium size	2									
4.10) Hacksaw frames	2									
4.11) Hacksaw blades (high speed)	12									
4.12) NT cutters	2									
4.13) NT cutter blade packets	4									
4.14) Adjustable wrech 6" adjustable range	2									
4.15) Adjustable wrech 8" adjustable range	2									
4.16) Elankee set 24 piece set	2									
4.17) Hammers 01 lb	2									
4.18) Hammers 02 lb	2	1,11,								
4.19) Hammers 18 lb	1									

Schedule I: BREAKDOWN OF TENDER PRICE (5)

Name of the Project: The Project for Rehabilitation of Power Distribution System in Laamu Atoll (The Goods and Installation & Commissioning Works for Laamu Maavah Island)

			Model No. (France) Country of Origin	Country of Origin		Unit Price (US\$)		Ĭ,	Total Price (US\$)	
lents	Quantità		model no. (n an)	mino o dumos	FOB	Freight	DDO	FOB	Freight	DDU
4.20) Alignment Indicator with 3m rope (Olanbu) metal ty	2									
4.21) Measuring wheel 100m	-									
4.22) Measuring wheel 10m	1									i
4.23) Empty PVC big size tool box (200mm height, 600mm length, 200mm depth at least)	-									
5: Installation:Materials and commissioning works	Nr and lots									
5.1) Brass screws 2" x 12no.	135									
5.2) Self tap screws 2" x 12 no.	135									
5.3) Wall plus 06 mm dia, 50 mm length	260									
5.4) Metal type round saw set which shall include 25 mm, 30 mm, 35 mm, 50 mm, 75mm, 100mm cutting	8									
55) Cable fies 200 mm length	300									
5.6) Unit water Pump (petrol used as fuel) 50 mm pipe dia	2									
5.7) Met frose, PVC rigid Spiral 2"	20m									
5.8) Met hose, PVC discharged 2" (Superhose)	70m	·								
5.9) Foot valve	2		•							
5.10) Hose clip	8									
5.11) Ring hose Clip	8									
5.12) Tool	01 unit					•				
5.13) Petrol drums for the water with petrols 200 litrs drums	8									
5.14) All other materials required to complete the								··		
unstandard of the Des, confedence of the meaning, outgoing and all consumer cables to the DBs.	-									

Schedule I: BREAKDOWN OF TENDER PRICE (5)
(The Goods and Installation & Commissioning Works for Laamu Maavah Island)
Name of the Project: The Project for Rehabilitation of Power Distribution System in Laamu Atoll

s med	Quantity	Manufacturer	Model No. (If any) Country of Origin	Country of Origin		Unit Price (US\$)	(<u> </u>	Total Price (US\$)	
					FOB	Freight	nga	FOB	Freight	nga
5.15) Install all the DBs on the concrete frames	20									
5.16) Cement bags (50kg)	72									
5.17) Install all the PVC glands to the DBs	01 lot									
5.18) Connect all the main cables to the DBs terminals	01 lot									
5.19) Connect all the consumer cables to the DBs	01 lot									
5.20) Label all the consumers and main cables of the DB	01 lot									
5.21) Connect all the main cables to the existing switchboard and new feeder pillars which will be installed inside the P/H control room or the new switchboard and the new feeder pillars. If it is a switchboard the installation of the switchboard will be completed by the client.	01 lot									
5.22) Connect all the consumer cables to the existing consumer KWH meter boards and new KWH meter boards.	01 lot				:					
5.23) Commission the distribution network	01 lot									
5.24) Commission all the consumers of the island to the new distribution network	O1 fot									
5.25) Seal the spare glands of the DBs with silicons	01 lot									
5.26) Label all the DB from the external side of the front door.	01 lot									
5.27) Hand over the distribution network to the client	01 tot				:					
Total										

•	
	177-07
1	

(Date)
(Signature)
(Name of Signer)
(Title, Section, Department)
(For and on be

Schedule II: DELIVERY SCHEDULE AND METHOD

Name of the Project: The Project for Rehabilitation of Power Distribution System

1	Embarkation Place	
2	Disembarkation Place	
3	Delivery Site (Destination)	·
4		Estimated Time of Departureat embarkation place
		Time of Arrival at the Site
5	Transportation Route and Method	
6	Packing	
7	Inspection (At the manufacturing place)	Contents of Inspection
8	Estimated date of Installation Completion	
9	Acceptance Test	Contents of Inspection

(Date)	
(Signature)	
(Name of Signer)	
(Title, Section, Department)	
For and on behalf of	

^{*} Tenderer is required to specify the detailed condition of the packing method.

^{**} When the conditions above are different from item by item, the tenderer is required to describe all conditions in the prescribed blank space. In case that the blank space is not enough, attached sheet is acceptable.

Schedule III

Implementation Schedule

Tender for: The Project for Rehabilitation of Power Distribution System in Laamu Atoll

To: Japan International Cooperation System (JICS) Liaison Office in Maldives

Year, Month			2005				2	006	
Description	8	9	10	11	12	1	2	3	4
General Schedule	◆ Ex	pected C	Contract I	ı		_			
]	Target Da	te of Der		et Comp of the	 letion Dat Project •	ie 7
Site investigation and coordination with Island Development Committee									
2. Preparation of drawings									
3. Fabrication of the Goods at factories									
4. Factory test and inspection									
5. Ocean and island transportation									
To Male'			<u> </u>						
From Male' to each site	·····								
6. Inspection at the Delivery Points			<u> </u>						
7. Installation of equipment									
8. Site test and commissioning		B					,		
9. Submission of As-built Drawings	•								
10. Handing over									

(Date)
(Signature)
(Name of Signer)
(Title, Section, Department)
(For and on behalf of)

Schedule IV

Personnel Dispatch Schedule

Tender for: The Project for Rehabilitation of Power Distribution System in Laamu Atoll

To: Japan International Cooperation System (JICS) Liaison Office in Maldives

Description			2005				20	06	
Description	8	9	10	11	12	1	2	3	4
1. Site representative									
2. (Please specify)									
3. (Please specify)									·
4. (Please specify)									

Note: The number of engineer/technician engaged in the Project shall be proposed by the Supplier.

(Date)
(Signature)
(Name of Signer)
(Title, Section, Department)
(For and on behalf of)

TECHNICAL SPECIFICATION SHEET (1)L.ISDHOO ISLAND

No. 1. 2): Main Distribution Cables 04 core 70 sq.mm

20			Required Specification	Tenderer's Specifications
τ-	õ	Quantity	500 m	
7		Manufacturer	(to be specified)	
က	Σ	Model	(to be specified)	
4	ပိ	4 Country of Origin	(to be specified)	
2		General Description	Underground Cables for Power Distribution	
9	_	Specifications		
		Applicable Standard	BS 6004	
		Voltage Class	600/1000V	
		Number of cores	4	
		Conductor	Plain annealed copper wire	
		Nominal cross sectional area	70 sq.mm	
		No. / diameter of wire	19/2.14 mm	
		Shape of conductor	90 degree centigrade sector	
		Insulation Material	XLPE	
		Min. thickness of insulation	1.16mm	
		Inner covering	PVC TYPE TM1	
		Min. thickness of inner covering	0.76mm	
		Approx. diameter over inner covering	30.26тт	
		Sheath	PVC TYPE ST2(Flame Retardant)	
		Min. thickness of sheath	1.48mm	
		Approx. diameter of completed cable	39.2mm	
		Voltage test on completed cable	3.5/5 kV/mins	
		Max. conductor resistance at 20 degree cent.	0.268 ohm/km	-
		Max. insulation resistance at 70 degree cent.	5 Mohm/km	
		Core identification	Red, Yellow, Blue, Black	
		Max. tength of cable drum	200 ш	
		Approx. weight of completed cable	4501 kg/km	
	\rfloor			

TECHNICAL SPECIFICATION SHEET (1)L.ISDHOO ISLAND

No. 1. 3): Main Distribution Cables 04 core 50 sq.mm

Tenderer's Specifications					u																							
Required Specification	1000 m	(to be specified)	(to be specified)	(to be specified)	Underground Cables for Power Distribution		BS 6004	600/1000V	4	Plain annealed copper wire	50 sq.mm	19/1.78 mm	90 degree centigrade sector	XLPE	1.16mm	PVC TYPE TM1	0.76 mm	26.69mm	PVC TYPE ST2(Flame Retardant)	1.40mm	35.4mm	3.5/5 kV/mins	0.387 ohm/km	5 Mohm/km	Red, Yellow, Blue, Black	. m 00g	3485 kg/km	
	Quantity	Manufacturer	Model	Country of Origin	General Description	Specifications	Applicable Standard	Voltage Class	Number of cores	Conductor	Nominal cross sectional area	No. I diameter of wire	Shape of conductor	Insulation Material	Min. thickness of insulation	Inner covering	Min. thickness of inner covering	Approx. diameter over inner covering	Sheath	Min. thickness of sheath	Approx. diameter of completed cable	Voltage test on completed cable	Max. conductor resistance at 20 degree cent.	Max. insulation resistance at 70 degree cent.	Core identification	Max. length of cable drum	Approx. weight of completed cable	
% [1	2	3	4	5	ဖ																						

TECHNICAL SPECIFICATION SHEET (1)L.ISDHOO ISLAND

No. 1. 4): Main Distribution Cables 04 core 35 sq.mm

1 Quantity 2300 m 2 Manufecturer	\$ 15 15 15 15 15 15 15 15 15 15 15 15 15 1			Required Specification	Tenderer's Specifications
Manufacturer Model Country of Origin General Description Specifications Applicable Standard Voltage Class Number of cores Conductor Norninal cross sectional area No. / diameter of wire Shape of conductor Insulation Material Min. thickness of insulation Min. thickness of insulation Min. thickness of sheath Approx. diameter over inner covering Sheath Min. thickness of sheath Approx. diameter of completed cable Voltage test on completed cable Wax. conductor resistance at 20 degree cent. Max. insulation resistance at 70 degree cent. Max. length of cable drum Approx. weight of completed cable Max. length of cable drum Approx. weight of completed cable	۲.		lantity	2300 m	
Model Country of Origin General Description Specifications Applicable Standard Voltage Class Number of cores Conductor Nominal cross sectional area No. / diameter of wire Shape of conductor Insulation Material Min. thickness of insulation Inner covering Min. thickness of inner covering Sheath Min. thickness of sheath Approx. diameter of completed cable Voltage test on completed cable Wax. conductor resistance at 20 degree cent. Max. insulation resistance at 70 degree cent. Core identification Max. length of cable drum Approx. weight of completed cable Max. length of cable drum Approx. weight of completed cable	7	1	anufacturer	(to be specified)	
Country of Origin General Description Specifications Applicable Standard Voltage Class Number of cores Conductor Nominal cross sectional area No. / diameter of wire Shape of conductor Insulation Material Min. thickness of insulation Inner covering Min. thickness of insulation Min. thickness of sheath Approx. diameter over inner covering Sheath Min. thickness of sheath Approx. diameter of completed cable Voltage test on completed cable Wax. conductor resistance at 20 degree cent. Max. insulation resistance at 70 degree cent. Core identification Max. length of cable drum Approx. weight of completed cable	က		del	(to be specified)	
General Description Specifications Applicable Standard Voltage Class Number of cores Conductor Nominal cross sectional area No. / diameter of wire Shape of conductor Insulation Material Min. thickness of insulation Inner covering Min. thickness of inner covering Sheath Min. thickness of sheath Approx. diameter over inner covering Sheath Min. thickness of sheath Approx. diameter of completed cable Voltage test on completed cable Wax. conductor resistance at 20 degree cent. Max. insulation resistance at 70 degree cent. Core identification Max. length of cable drum Approx. weight of completed cable	4	$\overline{}$	untry of Origin	(to be specified)	
Specifications Applicable Standard Voltage Class Number of cores Conductor Nominal cross sectional area No. / diameter of wire Shape of conductor Insulation Material Min. thickness of insulation Min. thickness of insulation Min. thickness of sheath Approx. diameter over inner covering Sheath Min. thickness of sheath Approx. diameter of completed cable Wax. conductor resistance at 20 degree cent. Max. insulation resistance at 70 degree cent. Core identification Max. length of cable drum Approx. weight of completed cable	5	$\overline{}$	neral Description	Underground Cables for Power Distribution	
cable Standard ge Class oer of cores uctor nal cross sectional area diameter of wire e of conductor ation Material hickness of insulation covering thickness of inner covering th covering th covering th covering th covering th covering th inckness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 the cent. insulation resistance at 70 degree insulation resistance at 70 degree insulation for completed cable conductor resistance at 20 th insulation resistance at 20 th conductor resistance at 20	9	$\overline{}$	ecifications		
ge Class ouctor nal cross sectional area diameter of wire e of conductor stion Material hickness of insulation covering hickness of inner covering th hickness of sheath bx. diameter of completed cable ge test on completed cable conductor resistance at 20 the cent. insulation resistance at 70 degree identification length of cable drum length of cable drum length of completed cable ox. weight of completed cable			Applicable Standard	BS 6004	
uctor nal cross sectional area diameter of wire e of conductor ation Material hickness of insulation covering hickness of inner covering ox. diameter over inner covering th hickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 e cent. insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable			Voltage Class	600/1000V	
uctor nal cross sectional area diameter of wire e of conductor ation Material hickness of insulation covering hickness of inner covering bx. diameter over inner covering th hickness of sheath bx. diameter of completed cable ge test on completed cable conductor resistance at 20 ee cent. insulation resistance at 70 degree identification length of cable drum lox. weight of completed cable			Number of cores	4	
diameter of wire e of conductor ation Material covering hickness of insulation covering hickness of inner covering by. diameter over inner covering th hickness of sheath by. diameter of completed cable ge test on completed cable conductor resistance at 20 e cent. insulation resistance at 70 degree identification length of cable drum by. weight of completed cable conductor resistance at 70 degree insulation resistance at 70 degree insulation resistance at 70 degree insulation resistance at 70 degree			Conductor	Plain annealed copper wire	
diameter of wire e of conductor ation Material . hickness of insulation covering by. diameter over inner covering th hickness of sheath by. diameter of completed cable ge test on completed cable conductor resistance at 20 e cent. insulation resistance at 70 degree insulation for completed cable conductor resistance at 20 e cent. insulation resistance at 70 degree identification length of cable drum by. weight of completed cable			Nominal cross sectional area	35 sq.mm	
e of conductor thickness of insulation covering thickness of inner covering bx. diameter over inner covering th thickness of sheath bx. diameter of completed cable ge test on completed cable conductor resistance at 20 the cent. insulation resistance at 70 degree insulation length of cable drum bx. weight of completed cable			No. / diameter of wire	7/2.52 mm	
hickness of insulation covering hickness of inner covering ox. diameter over inner covering th hickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 e cent. insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable			Shape of conductor	90 degree centigrade sector	
covering covering thickness of insulation covering thickness of inner covering th hickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 the cent. insulation resistance at 70 degree insulation completed cable conductor resistance at 20 the cent. insulation resistance at 70 degree insulation resistance at 70 degree insulation resistance at 70 degree insulation resistance at 70 degree insulation resistance at 70 degree insulation resistance at 70 degree insulation resistance at 70 degree insulation resistance at 70 degree				XLPE	
hickness of inner covering ox. diameter over inner covering th hickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 te cent. insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable			Min. thickness of insulation	0.98mm	
hickness of inner covering x. diameter over inner covering th hickness of sheath x. diameter of completed cable ge test on completed cable conductor resistance at 20 e cent. insulation resistance at 70 degree identification length of cable drum x. weight of completed cable			Inner covering	PVC TYPE TM1	
bx. diameter over inner covering th thickness of sheath bx. diameter of completed cable ge test on completed cable conductor resistance at 20 te cent. insulation resistance at 70 degree insulation for cable drum length of cable drum bx. weight of completed cable			Min. thickness of inner covering	0.60mm	
th hickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 insulation resistance at 70 degree insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable			Approx. diameter over inner covering	22.85mm	
hickness of sheath x. diameter of completed cable ge test on completed cable conductor resistance at 20 e cent. insulation resistance at 70 degree identification length of cable drum length of cable drum ox. weight of completed cable		••••	Sheath	PVC TYPE ST2(Flame Retardant)	
ox. diameter of completed cable ge test on completed cable conductor resistance at 20 te cent. insulation resistance at 70 degree identification length of cable drum length of completed cable			Min. thickness of sheath	0.60mm	
ge test on completed cable conductor resistance at 20 se cent. insulation resistance at 70 degree insulation as faum length of cable drum ox. weight of completed cable			Approx. diameter of completed cable	30.3mm	
conductor resistance at 20 se cent. insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable			Voltage test on completed cable	3.5/5 kV/mins	
insulation resistance at 70 degree identification length of cable drum			Max. conductor resistance at 20 degree cent.	0.524 ohm/km	
- - -			insulation resistance at 70 deg		
- - -			Core identification	Red, Yellow, Blue, Black	
			Max. length of cable drum	500 m	
			Approx. weight of completed cable	2514 kg/km	
		_			

TECHNICAL SPECIFICATION SHEET (1)L.ISDHOO ISLAND

No. 1. 5): Main Distribution Cables 04 core 25sq.mm

8		Required Specification Tenderer's Specifications	fications
7	Quantity	1500 m	
7	Manufacturer	(to be specified)	
က	Model	(to be specified)	
4	Country of Origin	(to be specified)	
2	General Description	Underground Cables for Power Distribution	
ဖ	Specifications		
	Applicable Standard	BS 6004	
	Voltage Class	600/1000V	
	Number of cores	*	
	Conductor	Plain annealed copper wire	
	Nominal cross sectional area	25 sq.mm	
	No. / diameter of wire	7/2.14 mm	
	Shape of conductor	90 degree centigrade sector	
	Insulation Material	XLPE	
	Min. thickness of insulation	0.98mm	
	Inner covering	PVC TYPE TM1	
	Min. thickness of inner covering	0.60mm	
	Approx. diameter over inner covering	20.5mm	
	Sheath	PVC TYPE ST2(Flame Retardant)	
	Min. thickness of sheath	1.24mm	
	Approx. diameter of completed cable	27.8mm	
	Voltage test on completed cable	3.5/5 kV/mins	
	Max. conductor resistance at 20 degree cent.	0.727 ohm/km	
	Max. insulation resistance at 70 degree cent.	5 Mohm/km	
	Core identification	Red, Yellow, Blue, Black	
	Max. length of cable drum	500 m	
	Approx. weight of completed cable	2026 kg/km	

TECHNICAL SPECIFICATION SHEET (1)L.ISDHOO ISLAND

No. 1. 6): Branch Cables 04 core 16 sq.mm

			Required Specification	Tenderer's Specifications
_		Quantity	200 m	
7		Manufacturer	(to be specified)	
က		Model	(to be specified)	
4		Country of Origin	(to be specified)	
5		General Description	Underground Cables for Power Distribution	
9		Specifications		
		Applicable Standard	BS 6004	
		Voltage Class	600/1000V	
		Number of cores	4	
		Conductor	Plain annealed copper wire	
		Nominal cross sectional area	16 sq.mm	
		No. / diameter of wire	7/1.70 mm	
		Shape of conductor	Circular compact	
		Insulation Material	XLPE	
		Min. thickness of insulation	0.80mm	
•		Inner covering	PVC TYPE TM1	
		Min. thickness of inner covering	0.90mm	
		Approx. diameter over inner covering	21.8mm	
		Sheath	PVC TYPE ST2(Flame Retardant)	
		Min. thickness of sheath	1.16mm	
		Approx. diameter of completed cable	26.3mm	
		Voltage test on completed cable	3.5/5 kV/mins	
		Max. conductor resistance at 20 degree cent.	1.15 ohm/km	
		Max. insulation resistance at 70 degree cent.	5 Mohm/km	
		Core identification	Red, Yellow, Blue, Black	
		Max. length of cable drum	500 m	
		Approx. weight of completed cable	1545 kg/km	
\Box	\dashv			

TECHNICAL SPECIFICATION SHEET (1)L.ISDHOO ISLAND

No. 1. 7): Brach Cables 02 core 06 sq.mm

1 Quantity 2 Manufacturer 3 Model 4 Country of Origin 5 General Description 6 Specifications Number of corea Conductor Nominal cross s No. / diameter o Shape of condu Insulation Mater Min. thickness o Inner covering Min. thickness o Approx. diamete Sheath Min. thickness o Approx. diamete Sheath Min. thickness o Approx. diamete Sheath Max. conductor I degree cent. Max. insulation r cent. Max. length of ca Approx. weight o			
Na Cool		19750 m	
Sp Ger Court		(to be specified)	
Spe Ger		(to be specified)	
Spe	rigin	(to be specified)	
Span		Underground Cables for Power Distribution	
Applica Voltage Numbe Conduc No. / dis Shape c Insulatic Min. thic Min. thic Approx. Sheath Min. thic Approx. Contage Max. co degree c Max. ins Core ide Max. ler Max. ler Approx.	S		
Nomina Nomina Nomina No. / dia Shape of Insulation Min. thicon Min. thicon Approx. Sheath Min. thicon Approx. Voltage Max. cod Gegree of Max. insteatt	Applicable Standard	BS 6004	
Numbe Conduc No. / dia Shape c Insulatic Min. thic Min. thic Min. thic Approx. Sheath Min. thic Max. co degree c Gore ide Max. ler Max. ler Approx.		600/1000V	
Conduce Nomina No. / dia Shape c Insulatit Min. thic Min. thic Min. thic Approx. Sheath Min. thic Approx. Coltage Max. co degree c Max. ins cent Core ide Max. ler Approx.	Number of cores	2	
Nomina No. / dia Shape c Insulatic Min. thic Min. thic Approx. Sheath Min. thic Approx. Voltage Max. co degree c Core ide Max. ler Max. ler Approx.		Plain annealed copper wire	
No. / dia Shape o Insulatio Min. thio Min. thio Approx. Sheath Min. thio Approx. Voltage Max. co degree o degree o Max. ins Core ide Max. ler Approx.	Nominal cross sectional area		
Shape of Insulation this Min. this Min. this Approx. Sheath Min. this Approx. Voltage Max. codegree of Core ide Max. ler Max. ler Max. ler Max. ler Approx.	No. / diameter of wire	7/1.04 mm	
Insulatic Min. thic Min. thic Approx. Sheath Min. thic Approx. Voltage Max. co degree cent. Core ide Max. ler Max. ler Max. ler Approx.	Shape of conductor	Round	
Min. thid Inner oc Min. thid Approx. Sheath Min. thid Approx. Voltage Max. co degree of Max. ins cent Core ide Max. ler Approx. Approx.	Insulation Material	XLPE	
Inner co Min. thio Sheath Min. thio Approx. Voltage Max. co degree o degree o Core ide Max. ins cent.	Min. thickness of insulation	0.80mm	
Min. thichical Sheath Min. thichical Approx. Voltage Max. co degree cont. Core ide Max. ler Max. ler Max. ler Approx.		PVC TYPE TM1	
Approx. Sheath Min. thic Approx. Voltage Max. co degree e Max. ins cent Core ide Max. ler Max. ler Approx.	Min. thickness of inner covering	0.40mm	
Sheath Min. thic Approx. Voltage Max. co degree cent. Core ide Max. ler Max. ler Max. ler Approx.	Approx. diameter over inner covering	10.6mm	
Min. thichical Approx. Voltage Max. co degree Max. ins cent. Core ide Max. ler Max. ler Approx.		PVC TYPE ST2(Flame Retardant)	
Approx. Voltage Max. co degree cent Core ide Max. ler Max. ler	Min. thickness of sheath	0.92mm	
Voltage Max. co degree e Max. ins cent. Core ide Max. ler Approx.	Approx. diameter of completed cable	12.5mm	
Max. co degree (Max. ins cent. Core ide Max. ler Approx.	Voltage test on completed cable	3.5/5 kV/mins	
Max. ins cent. Core ide Max. ler Approx.	tor resistance at 20	3.08 ohm/km	
Core ide Max. ler Approx.	Max. insulation resistance at 70 degree cent.	5 Mohm/km	
Max. ler Approx.	Core identification	Red/Black	
Approx.	Max. length of cable drum	500 m	
	Approx. weight of completed cable	209 kg/km	
İ			

TECHNICAL SPECIFICATION SHEET (1)L.ISDHOO ISLAND

No.2. 1): Distribution Box: Type 01: Feeder Pillars

[Required Specification	Tenderer's Specifications
1	Quantity	02 Units	
2	Manufacturer	(to be specified)	
က	Model	(to be specified)	
4	Country of Origin	(to be specified)	
5	General Description	Branch distribution Feeders	
9	Specifications		
	Enclosure	GRP (Glass Reinforced Polyester)	
	IP rating according to IEC 529	IP 65	
	Insulation class according to IEC 232	Class II	
	Canopies	Both top and bottom	
	Door	Plain door equipped with 2 or 3 locks with 8mm triangular centers	
	Color	RAL 7032	
	Other function for enclosure	4 fixing bolts in the back of the enclosure for mounting plate fastening	
		Depth adjustment slides for orion enclosure	
		Plain mounting plates	
		Modular chassis with front cover	
	Incoming side	One(1) Terminal block (4 pole) capable to connect 4 core 70 so mm copper cables	
		Five (5) MCCB(TPN) 100A, 20kA	
		Five (5) ELRs complete with ZCTs.	
		Five (5) shunt trip coil for the MCCBs	
		One (01) set of flexible wiring with 70 sq.mm cables	
		One (01) set of lugs and lug sleeves	
	Outgoing side		
		One (1) terminal blocks capable to connect 120	
		Four (4) terminal blocks capable to connect 70	
		sq.mm 04 core cables.	
	•	One (1) set of wiring	
	Size	Maximum 1150mm(height)x 850mm(width)x 300mm(depth)	
	Carrying weight	6 - 200 kg	
1			

TECHNICAL SPECIFICATION SHEET (1)L.ISDHOO ISLAND No. 2. 2): Distribution Box: Type 02: 18MCBs

		Required Specification Tenderer's Specifications
_	Quantity	06 Units
7	Manufacturer	(to be specified)
ო	Model	(to be specified)
4	Country of Origin	(to be specified)
5	General Description	Branch distribution circuit with MCB
9	Specifications	
	Enclosure	GRP (Glass Reinforced Polyester)
	IP rating according to IEC 529	IP 65
	Insulation class according to IEC 232	Class II
_	Canopies	Both top and bottom
	Door	Plain door equipped with 2 or 3 locks with 8mm triangular centers
	Color	RAL 7032
	Other function for enclosure	4 fixing bolts in the back of the enclosure for mounting plate fastening
		Depth adjustment slides for orion enclosure
		Plain mounting plates
		Modular chassis with front cover
	Incoming side	One(1) Terminal block (4 pole) capable to connect 4 core 70 sq.mm copper cables
		One(1) MCCB(TPN) 63A, 20kA
	Outgoing side	Eighteen (18) MCBs (SP) 40A, 16kA
		One (1) insulated Prong Bus 18 CCTs "U" type.
		One (1) insulated neutral link 18 holes (4 holes 16 sq.mm, and others 6 sq.mm)
		One (1) insulated earth link 18 holes (4 holes 16
		sq.mm, and others 6 sq.mm)
		One(1) set of flexible wiring c/w lugs, lug sleeves and others
	Size	Maximum 650mm(height)x 500mm(width)x 200mm(depth)
	Carrying weight	6 - 150 kg

TECHNICAL SPECIFICATION SHEET (1)L.ISDHOO ISLAND

No. 2. 3) : Distribution Box: Type 03: 12 MCBs

			Required Specification	Tenderer's Specifications
7		Quantify	32 Units	
7	$\overline{}$	Manufacturer	(to be specified)	
က	Model	ıdel	(to be specified)	
4		Country of Origin	(to be specified)	
5	_	General Description	Branch distribution circuit with MCB	
9		Specifications		
		Enclosure	GRP (Glass Reinforced Polyester)	
		IP rating according to IEC 529	IP 65	
		Insulation class according to IEC 232	Class II	
		Canopies	Both top and bottom	
		1000	Plain door equipped with 2 or 3 locks with 8mm	
			friangular centers	
		Color	RAL 7032	
		Other function for enclosure	4 fixing bolts in the back of the enclosure for mounting plate fastening	
			Depth adjustment slides for orion enclosure	
			Plain mounting plates	
			Modular chassis with front cover	
		Incoming side	One(1) Terminal block (4 pole) capable to	
			connect 4 core 70 sq.mm copper cables	-
			One(1) MCCB(TPN) 63A, 20kA	
		Outgoing side	Twelve (12) MCBs (SP) 40A, 16kA	
			One (1) insulated Prong Bus 18 CCTs "U" type.	
			One (1) insulated neutral link 18 holes (4 holes	
			16 sq.mm, and others 6 sq.mm)	
			One (1) insulated earth link 18 holes (4 holes 16	
			sq.mm, and others 6 sq.mm)	
			One(1) set of flexible wiring c/w lugs, lug	
		Size	Maximum 500mm(height)x 400mm(width)x 200mm(depth)	
		Carrying weight	6 - 120 kg	
		(1		

TECHNICAL SPECIFICATION SHEET (1)L.ISDHOO ISLAND

No. 3.: Accessories

			👙 🔆 - Required Specification 🛠 💝	Tenderer's Specifications
-	Quantity	ldiy	1 Lot	
7	_	Manufacturer	(to be specified)	
ო	Model	100	(to be specified)	
4		Country of Origin	(to be specified)	
ιņ	-	General Description	All accessories to install LV Cables and Distribution Box	
9	+	Specifications		
	6.1	6.1 PVC glands for 4 core 70 sq.mm copper cable	12	
	6.2	6.2 PVC glands for 4 core 50 sq.mm copper cable	24	
	6.3	6.3 PVC glands for 4 core 35 sq.mm copper cable	52	
	6.4	PVC glands for 4 core 25 sq.mm copper cable	32	
	6.5	6.5 PVC glands for 4 core 16 sq.mm copper cable	12	
	9.9	PVC glands for 2 core 6 sq.mm copper cables	500	
	6.7	Copper tugs 70 sq.mm with 12mm dia (terminal bolt connecting hole)	12	
	6.8	Copper lugs 50 sq.mm with 12mm dia (terminal bolt connecting hole)	76	
	6.9	Copper lugs 35 sq.mm with 12mm dia (terminal bolt connecting hole)	152	
	6.1	Copper lugs 25 sq.mm with 12mm dia (terminal bolt connecting hole)	120	
	6.11	6.11 Lug sleeves 70 sq.mm (red color)	14	
	6.12	Lug sleeves 70 sq.mm (yellow color)	14	
	6.13	Lug sleeves 70 sq.mm (blue color)	14	
	6.14	Lug sleeves 70 sq.mm (black color)	14	
	6.15	6.15 Lug sleeves 50 sq.mm (red color)	80	
	6.16	6.16 Lug sleeves 50 sq.mm (yellow color)	80	
	6.17	Lug sleeves 50 sq.mm (blue color)	80	
	6.18	6.18 Lug sleeves 50 sq.mm (black color)	80	
	6.19	Lug sleeves 35 sq.mm (red color)	160	
	62		160	
	6.21		160	
	6.22		160	
	6.23		130	
	6.24		130	
	6.25	Lug sleeves 25 sq.mm (blue color)	130	
	6.26	Lug sleeves 25 sq.mm (black color)	130	
	6.27	Roll insulation tape (black color)	100	
	6.28	Roll scotch tape	4	
	6.29	Cable ties 300 mm length	456	
	6.30	Cable fies 150 mm length	456	
_	_			

TECHNICAL SPECIFICATION SHEET (1)L.ISDHOO ISLAND

No. 4.: Tools

影響			Required Specification	Tenderer's Specifications
_	Quantity	ntity	1 Lot	
2	Man	2 Manufacturer	(to be specified)	
3	Model	el	(to be specified)	
4		Country of Origin	(to be specified)	
2		General Description	All tools to install LV Cables	
9		Specifications		
	6.1	6.1 Level indicator 12"		
	6.2	6.2 Screwdriver 12" (-)		
	6.3		2	
	6.4	6.4 Screwdriver 6" (-)		
	6.5			
	6.6	6.6 Philips voltage neon light testers 6"		
	6.7	Pliers 12"		
	6.8	Side cutters normal size		
	6.9	Cable cutters medium size		
	6.10			***************************************
	6.11	6.11 Hacksaw blades (high speed)	2	
	6.12	6.12 NT cutters	2	
	6.13	6.13 NT cutter blade packets		
	6.14	6.14 Adjustable wrech 6" adjustable range		
	6.15	6.15 Adjustable wrech 8" adjustable range		
	6.16	Elankee set 24 piece set		
	6.17	6.17 Hammers 01 lb	2	
	6.18			
	6.19			
	6.20	Alignment indicator with 3m rope (Olanbu) metal type 2		
	6.21	Measuring wheel 100m		
	6.22	6.22 Measuring wheel 10m		
	6.23	Empty PVC big size tool box (200mm height, 600mm length, 200mm depth at least)		
		1 "		
l		4:		

TECHNICAL SPECIFICATION SHEET (1)L.ISDHOO ISLAND

No. 5.: Installation and commission works

			Required Specification	Tenderer's Specifications
-	Quantity	ılity	1 Lot	THE STREET SOLVED AT SHARPING AND ADMINISTRATION OF THE STREET STREET, THE STREET STREET STREET, THE STREET, THE STREET STREET, THE STREET STREET, THE STREET STREET, THE STREET, THE STREET STREET, THE STREET STREET, THE STRE
7	$\overline{}$	Manufacturer	(to be specified)	
3	Model	le	(to be specified)	
4		Country of Origin	(to be specified)	
5		General Description	All the items and workmanshi required to do the installation and	
			commissioning work	
9		Specifications		
	Ġ.	6.1 Brass screws 2" x 12no.	184	
	6.2	2 Self tap screws 2" x 12 no.	184	
		6.3 Wall plus 06 mm dia, 50 mm length	220	
	ة 	6.4 30 mm, 35 mm, 50 mm, 75mm, cutung ales GW	c	
	(Uniel accessories.	7	
	6.5	Cable ties 200 mm length	504	
	9.9	S Unit water Pump (petrol used as fuel) 50 mm pipe	2	
		Type: 4 stroke overhead valve single cylinder, 25		
		Total displacement 118 cm ³ (7.2 cu.in)		
	·· <u></u>	Bore and stroke 60×42 mm (2.4 \times 1.7 in)		
		Max Horse power 2.9 KW (4.0 HP) / 3600 min ⁻¹		
		Max.Torque 7.5 N.M (0.75 kg.m, 5.4 lbf.ft) 2500		
		min ⁻¹ r.p.m crank P.T.O		
		Compression Ratio : 7.5:1, 8.5:1		
		Fuel consumtion: 313 g/kwh (230g/HPh,0.51 lb/Hph)		
		Colling system: Forced air		
		Ignition system : Transistorized magento ignition		
		Ignition timing : 25 degree B.T.D.C fixed		
		Spark plug: BP6 ES (NGK)		
		Carburetor: Horizontal type butterfly valve		
		Air cleaner : Dual element type		
		Governor : Centrifugal mechanical governor		
		Lubricating system : Splash		
		Oil capacity : 0.6 litres		
	,	Starting system: Recoil starter		
		Stopping system: Ignition primary circuit ground		

TECHNICAL SPECIFICATION SHEET (1)L.ISDHOO ISLAND

No. 5.: Installation and commission works

TECHNICAL SPECIFICATION SHEET (2)L.ISDHOO-KALAIDHOO ISLAND

No. 1. 3): Main Distribution Cables 04 core 50 sq.mm

纖			Required Specification	Tenderer's Specifications
7	ŏ	Quantity	1100 m	
7		Manufacturer	(to be specified)	
ന		Model	(to be specified)	
4		Country of Origin	(to be specified)	
2		General Description	Underground Cables for Power Distribution	
9	-	Specifications		
		Applicable Standard	BS 6004	
		Voltage Class	600/1000V	
		Number of cores		
		Conductor	Plain annealed copper wire	
		Nominal cross sectional area	50 sq.mm	
		No. / diameter of wire	19/1.78 mm	
		Shape of conductor	90 degree centigrade sector	
		Insulation Material	XLPE	,
		Min. thickness of insulation	1.16mm	
		Inner covering	PVC TYPE TM1	
		Min. thickness of inner covering	0.76 mm	
		Approx. diameter over inner covering	26.69mm	
		Sheath	PVC TYPE ST2(Flame Retardant)	
		Min. thickness of sheath	1.40mm	
		Approx. diameter of completed cable	35.4mm	
		Voltage test on completed cable	3.5/5 kV/mins	
·		Max. conductor resistance at 20 degree cent.	0.387 ohm/km	
		Max. insulation resistance at 70 degree 5 Mohm/km cent.	5 Моһт/кт	
		Core identification	Red, Yellow, Blue, Black	
		Max. length of cable drum	500 m	
		Approx. weight of completed cable	3485 kg/km	

TECHNICAL SPECIFICATION SHEET(2) L.ISDHOO-KALAIDHOO ISLAND

No. 1. 4): Main Distribution Cables 04 core 35 sq.mm

		Required Specification	Tenderer's Specifications
7	Quantity	2600 m	
2	Manufacturer	(to be specified)	
က	Model	(to be specified)	
4	Country of Origin	(to be specified)	
2	General Description	Underground Cables for Power Distribution	
9	Specifications		
	Applicable Standard	BS 6004	
	Voltage Class	600/1000V	
	Number of cores	4	
	Conductor	Plain annealed copper wire	
	Nominal cross sectional area	35 sq.mm	
	No. / diameter of wire	7/2.52 mm	
	Shape of conductor	90 degree centigrade sector	
	Insulation Material	XLPE	
	Min. thickness of insulation	0.98mm	
	Inner covering	PVC TYPE TM1	
	Min. thickness of inner covering	0.60mm	
	Approx. diameter over inner covering	22.85mm	
	Sheath	PVC TYPE ST2(Flame Retardant)	
	Min. thickness of sheath	0.60mm	
	Approx. diameter of completed cable	30.3mm	
	Voltage test on completed cable	3.5/5 kV/mins	
	Max. conductor resistance at 20 degree cent.	0.524 ohm/km	
	Max. insulation resistance at 70 degree cent.	5 Mohm/km	
	Core identification	Red, Yellow, Blue, Black	
	Max. length of cable drum	500 m	
	Approx. weight of completed cable	2514 kg/km	

No. 1. 6): Branch Cables 04 core 16 sq.mm

	nealed copper wire no man man man man man man man man man man	ea ering ering sr covering cable cable at 20 at 70
	1545 kg/km	Approx. weight of completed cable
	1545 ka/km	weight of completed cable
		lax. leligin or capie ordin
	500 m	Max length of cable drum
	Red, Yellow, Blue, Black	ore identification
	5 Mohm/km	ax. insulation resistance at 70 gree cent.
	1.15 ohm/km	x. conductor resistance at 20 gree cent.
	3.5/5 kV/mins	Itage test on completed cable
	26.3mm	prox. diameter of completed cable
	1.16mm	n. thickness of sheath
	PVC TYPE ST2(Flame Retardant)	eath
	21.8mm	prox. diameter over inner covering
	0.90mm	n. thickness of inner covering
	PVC TYPE TM1	er covering
	0.80mm	. thickness of insulation
	XLPE	
	Circular compact	ape of conductor
	7/1.70 mm	. / diameter of wire
	16 sq.mm	minal cross sectional area
	Plain annealed copper wire	nductor
Tight of the state	4	mber of cores
	600/1000V	tage Class
The state of the s	BS 6004	olicable Standard
		ations
	Underground Cables for Power Distribution	
	(to be specified)	
	(to be specified)	
	(to be specified)	
	200 m	

No. 1. 7): Brach Cables 02 core 06 sq.mm

Manufacturer (to be specified) 3 Model (to be specified) 3 Model (to be specified) 6 Cannuty of Origin (to be specified) 7 Modifications (to be specified) 8 Specifications (to be specified) Applicable Standard (to Conductor 10 Nominal cross sectional area (to Squmm Non-Indiance of wire Round Non-Indiance of wire Round Insulation Material ALPE Non-Indiance of conductor Round Inner covering 0.40mm Approx. diameter over inner covering 0.40mm Approx. diameter over inner covering 10.50mm Approx. diameter of completed cable 12.5mm Approx. diameter of completed cable 12.5mm Approx. diameter of completed cable 12.5mm Approx. diameter of completed cable 12.5mm	₩ ~	Quantity	Required Specification Tenderer's Specifications 14000 m	
ications policable Standard oltage Class umber of cores onductor ominal cross sectional area o. / diameter of wire nape of conductor sulation Material in. thickness of insulation ner covering in. thickness of inner covering porox. diameter of sheath oprox. diameter of completed cable oltage test on completed cable oltage test on completed cable ax. conductor resistance at 20 degree and ax. insulation resistance at 70 degree and ax. insulation resistance at 70 degree ax. insulation resistance at 70 degree ax. insulation resistance at 70 degree ax. insulation resistance at 70 degree ax. insulation resistance at 70 degree ax. insulation resistance at 70 degree ax. insulation resistance at 70 degree ax. insulation procompleted cable procompleted cable			(to be specified)	
Country of Origin General Description Specifications Applicable Standard Voltage Class Number of cores Conductor Nominal cross sectional area No. / diameter of wire Shape of conductor Insulation Material Min. thickness of insulation Inner covering Min. thickness of inner covering Sheath Min. thickness of sheath Approx. diameter over inner covering Sheath Min. thickness of sheath Approx. diameter of completed cable Voltage test on completed cable Max. conductor resistance at 20 degree cent. Max. insulation resistance at 70 degree cent. Core identification Max. length of cable drum Approx. weight of completed cable		Model	(to be specified)	
General Description Specifications Applicable Standard Voltage Class Number of cores Conductor Nominal cross sectional area No. / diameter of wire Shape of conductor Insulation Material Min. thickness of insulation Inner covering Min. thickness of inner covering Approx. diameter over inner covering Sheath Min. thickness of sheath Approx. diameter of completed cable Voltage test on completed cable Wax. conductor resistance at 20 degree cent. Max. insulation resistance at 70 degree cent. Core identification Max. length of cable drum Approx. weight of completed cable		Country of Origin	(to be specified)	
Specifications Applicable Standard Voltage Class Number of cores Conductor Nominal cross sectional area No. / diameter of wire Shape of conductor Insulation Material Min. thickness of insulation Min. thickness of inner covering Approx. diameter over inner covering Sheath Min. thickness of sheath Approx. diameter of completed cable Voltage test on completed cable Voltage test on completed cable Cent. Max. conductor resistance at 20 degree cent. Max. insulation resistance at 70 degree cent. Core identification Max. length of cable drum Approx. weight of completed cable			Underground Cables for Power Distribution	
		Specifications		
3 8 8		Applicable Standard	BS 6004	
3 9		Voltage Class	600/1000V	
		Number of cores	2	
		Conductor	Plain annealed copper wire	
3 9		Nominal cross sectional area	06 sq.mm	-
9 9 9		No. / diameter of wire	7/1.04 mm	
9 9 9		Shape of conductor	Round	
	_		XLPE	
9 9 9		Min. thickness of insulation	0.80mm	
3 9		Inner covering	PVC TYPE TM1	
		Min. thickness of inner covering	0.40mm	
3 9 9		Approx. diameter over inner covering	10.6mm	
9 9		Sheath	PVC TYPE ST2(Flame Retardant)	
0 0 0 -		Min. thickness of sheath	0.92mm	
ge test on completed cable conductor resistance at 20 degree insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable		Approx. diameter of completed cable	12.5mm	
conductor resistance at 20 degree insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable		Voltage test on completed cable	3.5/5 kV/mins	
insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable		conductor resistance at 20 deg		!
le drum completed cable		insulation resistance at 70 degr	5 Mohm/km	
		Core identification	Red/Black	
- -		Max. length of cable drum	500 m	
		Approx. weight of completed cable	209 kg/km	
		A CONTRACTOR OF THE CONTRACTOR		

TECHNICAL SPECIFICATION SHEET(2) L.ISDHOO-KALAIDHOO ISLAND

No. 2. 1): Distribution Box: Type 01: Feeder Pillars

		Required Specification Tenderer's Specifications	Tenderer's Specifications
7	Quantity	01 Unit	
~	Manufacturer	(to be specified)	
ო	Model	(to be specified)	
4	Country of Origin	(to be specified)	
ß	General Description	Branch distribution Feeders	
9	Specifications		
	Enclosure	GRP (Glass Reinforced Polyester)	
	IP rating according to IEC 529	IP 65	
	Insulation class according to IEC 23 Class II	Class II	
	Canopies	Both top and bottom	
	Door	Plain door equipped with 2 or 3 locks with 8mm triangular centers	
	Color	RAL 7032	
	Other function for enclosure	4 fixing bolts in the back of the enclosure for mounting plate fastening	
		Depth adjustment slides for orion enclosure	
		Plain mounting plates	
		Modular chassis with front cover	
	Incoming side	One(1) Terminal block (4 pole) capable to connect 4 core 70 sq.mm copper cables	
		Five (5) MCCB(TPN) 100A, 20kA	
		Five (5) ELRs complete with ZCTs.	
		Five (5) shunt trip coil for the MCCBs	
		One (01) set of flexible wiring with 70 sq.mm cables	
		One (01) set of lugs and lug sleeves	
	Outgoing side		
		One (1) terminal blocks capable to connect 120 strum 04 core cables.	
		Four (4) terminal blocks capable to connect 70 sq.mm 04 core cables.	
		One (1) set of wiring	
	Size	Maximum 1150mm(height)x 850mm(width)x 300mm(depth)	
	Carrying weight	6 - 200 kg	

No. 2. 2): Distribution Box: Type 02: 18MCBs

Manufacturer Model Country of Origin General Description Specifications Enclosure IP rating according to IEC 529 Insulation class according to IEC 232 Canopies Door Color Other function for enclosure Incoming side Outgoing side Size Size			Required Specification Tenderer's Specifications
Manufacturer Model Country of Origin General Description Specifications Enclosure IP rating according to IEC 529 Insulation class according to IEC 232 Canopies Door Color Other function for enclosure Incoming side Outgoing side Size Size	1	Quantity	06 Units
Model Country of Origin General Description Specifications Enclosure IP rating according to IEC 529 Insulation class according to IEC 232 Canopies Door Color Other function for enclosure Incoming side Outgoing side Size Size Carrying weight	7	Manufacturer	(to be specified)
Country of Origin General Description Specifications Enclosure IP rating according to IEC 529 Insulation class according to IEC 232 Canopies Door Color Other function for enclosure Incoming side Outgoing side Size Size Carrying weight		Model	(to be specified)
General Description Specifications Enclosure IP rating according to IEC 529 Insulation class according to IEC 232 Canopies Door Color Other function for enclosure Incoming side Outgoing side Size Carrying weight	4	Country of Origin	(to be specified)
Enclosure Prating according to IEC 529 Insulation class according to IEC 232 Canopies	5	General Description	Branch distribution circuit with MCB
ng according to IEC 529 tion class according to IEC 232 pies ing side ing side ing weight	ဖ	Specifications	
tion class according to IEC 232 pies function for enclosure ing side ing weight		Enclosure	GRP (Glass Reinforced Polyester)
tion class according to IEC 232 piles function for enclosure ing side ing weight		IP rating according to IEC 529	IP 65
function for enclosure ing side ing weight		Insulation class according to IEC 232	Class II
function for enclosure ing side ing weight		Canopies	Both top and bottom
function for enclosure ing side ing weight		Door	Plain door equipped with 2 or 3 locks with 8mm triangular centers
or enclosure		Color	RAL 7032
			4 fixing bolts in the back of the enclosure for mounting plate fastening
			Depth adjustment slides for orion enclosure
			Plain mounting plates
			Modular chassis with front cover
		Incoming side	One(1) Terminal block (4 pole) capable to connect 4 core 70 sq.mm copper cables
			One(1) MCCB(TPN) 63A, 20kA
		Outgoing side	Eighteen (18) MCBs (SP) 40A, 16kA
			One (1) insulated Prong Bus 18 CCTs "U" type.
			One (1) insulated neutral link 18 holes (4 holes 16 sq.mm, and others 6 sq.mm)
-			One (1) insulated earth link 18 holes (4 holes 16 sq.mm, and others 6 sq.mm)
-			One(1) set of flexible wiring c/w lugs, lug steeves and others
		Size	Maximum 650mm(height)x 500mm(width)x 200mm(depth)
		Carrying weight	6 - 150 kg

No. 2. 3): Distribution Box: Type 03:12 MCBs

		Required:Specification Tenderers:Specifications
~	Quantity	22 Units
7	Manufacturer	(to be specified)
က	Model	(to be specified)
4	Country of Origin	(to be specified)
ည	General Description	Branch distribution circuit with MCB
9	Specifications	
	Enclosure	GRP (Glass Reinforced Polyester)
	IP rating according to IEC 529	99 dI
	Insulation class according to IEC 232	Class II
	Canopies	Both top and bottom
	Door	Plain door equipped with 2 or 3 locks with 8mm triangular centers
	Color	RAL 7032
	Other function for enclosure	4 fixing bolts in the back of the enclosure for mounting plate fastening
		Depth adjustment slides for orion enclosure
		Plain mounting plates
		Modular chassis with front cover
	Incoming side	One(1) Terminal block (4 pole) capable to connect 4 core 70 sq.mm copper cables
		One(1) MCCB(TPN) 63A, 20kA
	Outgoing side	Twelve (12) MCBs (SP) 40A, 16kA
		One (1) insulated Prong Bus 18 CCTs "U" type.
		One (1) insulated neutral link 18 holes (4 holes 16 sq.mm, and others 6 sq.mm)
		One (1) insulated earth link 18 holes (4 holes 16 sq.mm, and others 6 sq.mm)
		One(1) set of flexible wiring c/w lugs, lug sleeves and others
	Size	Maximum 500mm(height)x 400mm(width)x 200mm(depth)
	Carrying weight	6 - 120 kg

TECHNICAL SPECIFICATION SHEET(2) L.ISDHOO-KALAIDHOO ISLAND

No. 3.: Accessories

			Required Specification	Tendererts Specifications
7		Quantity	1 Lot	
2		Manufacturer	(to be specified)	
ဗ		Model	(to be specified)	
4		Country of Origin	(to be specified)	
5		General Description	All accessories to install LV Cables and Distribution Box	
9	_	Specifications		
		PVC glands for 4 core 50 sq.mm copper cables	24	
		PVC glands for 4 core 35 sq.mm copper cables	64	
		PVC glands for 4 core 16 sq.mm copper cables	12	
		PVC glands for 2 core 6 sq.mm copper cables	400	
		Copper lugs 50 sq.mm with 12mm dia (terminal bolt connecting hole)	112	
		Copper lugs 35 sq.mm with 12mm dia (terminal bolt connecting hole)	184	
		Lug sleeves 50 sq.mm (red color)	32	
_		Lug sleeves 50 sq.mm (yellow color)	32	
		Lug sleeves 50 sq.mm (blue color)	32	
		Lug sleeves 50 sq.mm (black color)	32	
		Lug sleeves 35 sq.mm (red color)	72	
		Lug sleeves 35 sq.mm (yellow color)	72	
		Lug sleeves 35 sq.mm (blue color)	72	
		Lug sleeves 35 sq.mm (black color)	72	
		Roll insulation tape (black color)	100	
		Roll scotch tape	4	
		Cable ties 300 mm length	400	
		Cable ties 150 mm length	400	
\Box	_			

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TECHNICAL SPECIFICATION SHEET(2) L.ISDHOO-KALAIDHOO ISLAND

No. 4.: Tools

			Required Specification	🔅 Tenderer's Specifications
-	₫	Quantity	1 Lot	
7		Manufacturer	(to be specified)	
က	Model		(to be specified)	
4	_	Country of Origin	(to be specified)	
13		General Description	All tools to install LV Cables	
ဖ		Specifications		
		Level indicator 12"	2	
		Screwdriver 12" (-)		
		(2	
		Screwdriver 6" (-)		
		Screwdriver 6" (+)	2	
		Philips voltage neon light testers 6"		
		Side cutters normal size		
		Cable cutters medium size		
		Hacksaw frames		
		Hacksaw blades (high speed)	2	
		NT cutters	2	
		lade packets		
		ıstable range		
	_	Adjustable wrech 8" adjustable range	2	
		Elankee set 24 piece set		•
		Hammers 01 lb		
		Hammers 02 lb		
		Hammers 18 lb		
		Alignment indicator with 3m rope (Olanbu) metal type	2	
		Measuring wheel 100m	1	
		Measuring wheel 10m	1	
		Empty PVC big size tool box (200mm height, 600mm length, 200mm depth at least)		
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TECHNICAL SPECIFICATION SHEET(2) L.ISDHOO-KALAIDHOO ISLAND

No. 5. : Installation and commission works

建			Required Specification	Tenderer's Specifications
~	Quantity	ntity	1 Lot	
2	Manı	Manufacturer	(to be specified)	
3	Model	le	(to be specified)	
4		Country of Origin	(to be specified)	
Ŋ	Gene	General Description	All the items and workmanshi required to do the installation and	
			commissioning work	
ဖ	Spec	Specifications		
	6.1	Brass screws 2" x 12no.	150	
	6.2	Self tap screws 2" x 12 no.	150	
	6.3	6.3 Wall plus 06 mm dia, 50 mm length	220	
	ŭ	Metal type round saw set which shall include 25 mm,		
	5 	other accessories.	2	
	6.5	6.5 Cable ties 200 mm length	420	
	6.6	6.6 Unit water Pump (petrol used as fuel) 50 mm pipe	2	
		Type: 4 stroke overhead valve single cylinder, 25		
		Total displacement 118 cm ³ (7.2 cu.in)		
		Bore and stroke 60 x 42 mm (2.4 x 1.7 in)		
		Max Horse power 2.9 KW (4.0 HP) / 3600 min ⁻¹		
		Max. Torque 7.5 N.M (0.75 kg.m, 5.4 lbf.ft) 2500		
		Compression Ratio: 7.5:1, 8.5:1		
		Fuel consumtion: 313 g/kwh (230g/HPh,0.51 lb/Hph)		
		Colling system : Forced air		
		Ignition system: Transistorized magento ignition		
		Ignition timing: 25 degree B.T.D.C fixed		
		Spark plug : BP6 ES (NGK)		
		Carburetor: Horizontal type butterfly valve		
		Air cleaner: Dual element type		
		Governor: Centrifugal mechanical governor		
		Lubricating system : Splash		
		Oil capacity: 0.6 litres		
		Starting system: Recoil starter		
	ĺ	Stopping system: Ignition primary circuit ground		
		Fuel used : Regular gasoline (86 pump octane :		

No. 5.: Installation and commission works

ing, sitting sing will be so new wisting meter the				required specification	enderers Specifications
Met hose, PVC rigid Spiral 2" Met hose, PVC discharged 2" (Superhose) Foot valve Hose clip Ring hose Clip Tool Ring hose Clip Tool Ring hose Clip Tool Betroi drums for the water with petrols 200 litrs All other materials required to complete the installation of the DBs, connection of the incoming, outdoing and all consumer cables to the DBs. Cement bags (50kg) for DB Install all the DBs on the concrete frames Install all the PVC glands to the DBs terminals Connect all the main cables to the DBs Connect all the main cables to the DBs Connect all the main cables to the existing switchboard and new feeder pillars which will be installed inside the P/H control room or the new switchboard and the new feeder pillars. If it is a switchboard and the new feeder pillars. If it is a switchboard and the onsumer cables to the existing consumer KWH meter boards and new KWH meter boards and new feeder pillars. If it is a switchboard the installation of the switchboard consumer cables to the existing consumer KWH meter boards and new kWH meter boards. Commission the distribution network Commission all the consumers of the island to the mew distribution network Seal the spare glands of the DBs with silicons Liabel all the DB from the external side of the front than over the distribution network to the client	}—	_ <u></u>	Fule tank capacity : 2.5 litres		
Net hose, PVC discharged 2" (Superhose) Foot valve Hose clip Ring hose Clip Tool Petroi drums for the water with petrols 200 litrs All other materials required to complete the installation of the DBs, connection of the incoming, cutroning and all consumer cables to the DBs. Cement bags (50kg) for DB Install all the DBs on the concrete frames Install all the PVC glands to the DBs Connect all the main cables to the DBs Connect all the main cables to the DBs Connect all the main cables to the Bs Connect all the main cables to the existing switchboard and new feeder pillars which will be installed inside the P/H control room or the new switchboard and the new feeder pillars. If it is a switchboard and the new feeder pillars. If it is a switchboard the installation of the switchboard will be completed by the client. Connect all the consumer cables to the existing consumer KWH meter boards and new KWH meter boards. Commission all the consumers of the island to the new distribution network Commission all the consumers of the bBs with silicons Commission and the consumers of the bBs with silicons Liabel all the DB from the external side of the front Hand over the distribution network to the client	1	6.7	Met hose, PVC rigid Spiral 2"	20m	
Ring hose Clip Ring hose Clip Tool	•	6.8		70m	
Ring hose Clip Tool Petrol drums for the water with petrols 200 litrs Petrol drums for the water with petrols 200 litrs All other materials required to complete the installation of the DBs, connection of the incoming, outdoing and all consumer cables to the DBs. Cement bags (50kg) for DB Install all the DBs on the concrete frames Install all the DBs on the concrete frames Install all the DBs on the concrete frames Connect all the main cables to the DBs Connect all the main cables to the DBs Connect all the main cables to the existing switchboard and new feeder pillars which will be installed inside the P/H control room or the new switchboard and the new feeder pillars. If it is a switchboard and the new feeder pillars. If it is a switchboard and the new feeder pillars. If it is a switchboard and the new feeder pillars which will be consumer cables to the existing consumer KWH meter boards and new KWH meter boards. Connect all the consumers of the island to the boards. Commission the distribution network Commission in the waternal side of the front the distribution network to the client.	'	6.9	Foot valve	2	
Ring hose Clip Tool Petrol drums for the water with petrols 200 litrs All other materials required to complete the installation of the DBs, connection of the incoming, outdoing and all consumer cables to the DBs. Cement bags (50kg) for DB Install all the DBs on the concrete frames Install all the PVC glands to the DBs terminals Connect all the main cables to the DBs terminals Connect all the main cables to the DBs Connect all the main cables to the DBs Connect all the consumer cables to the existing switchboard and new feeder pillars which will be installed inside the P/H control room or the new switchboard and the new feeder pillars. If it is a switchboard the installation of the switchboard will be completed by the client. Connect all the consumer cables to the existing consumer KWH meter boards and new KWH meter boards and new KWH meter boards. Commission the distribution network Commission all the consumers of the island to the new distribution network to the client Seal the spare glands of the DBs with silicons Label all the DB from the external side of the fient Hand over the distribution network to the client		6.10	Hose clip	8	
Petrol drums for the water with petrols 200 litrs All other materials required to complete the installation of the DBs, connection of the incoming, outdoing and all consumer cables to the DBs. Cement bags (50kg) for DB Install all the DBs on the concrete frames Install all the PVC glands to the DBs terminals Connect all the main cables to the DBs terminals Connect all the main cables to the DBs to the Connect all the main cables to the Connect all the consumer cables to the Connect all the main cables to the Existing switchboard and new feeder pillars which will be installed inside the P/H control room or the new switchboard and the new feeder pillars. If it is a switchboard the installation of the switchboard will be completed by the client. Connect all the consumer cables to the existing consumer KWH meter boards and new KWH meter boards. Connect all the consumers of the island to the boards. Commission the distribution network Commission all the consumers of the island to the new distribution network to the client Label all the DB from the external side of the front Hand over the distribution network to the client	'		Ring hose Clip	8	
Petrol drums for the water with petrols 200 litrs All other materials required to complete the installation of the DBs, connection of the incoming, outdoing and all consumer cables to the DBs. Cement bags (50kg) for DB Install all the DBs on the concrete frames Install all the DBs on the concrete frames Install all the DBs on the concrete frames Connect all the main cables to the DBs terminals Connect all the main cables to the DBs Connect all the main cables to the existing switchboard and new feeder pillars which will be installed inside the P/H control room or the new switchboard and the new feeder pillars. If it is a switchboard the installation of the switchboard consumer cables to the existing consumer KWH meter boards and new KWH meter boards. Commission the distribution network Commission all the consumers of the island to the new distribution network Seal the spare glands of the DBs with silicons Label all the DB from the external side of the front Hand over the distribution network to the client	<u>. </u>	• •	Tool	01 unit	
All other materials required to complete the installation of the DBs, connection of the incoming, outdoing and all consumer cables to the DBs. Cement bags (50kg) for DB Install all the DBs on the concrete frames Install all the DBs on the concrete frames Install all the DBs on the concrete frames Connect all the main cables to the DBs terminals Connect all the main cables to the DBs Connect all the main cables to the DBs Connect all the main cables to the existing switchboard and new feeder pillars which will be installed inside the P/H control room or the new switchboard and the new feeder pillars. If it is a switchboard and the new feeder pillars to the existing Connect all the consumer cables to the existing consumer KWH meter boards and new KWH meter boards. Commission the distribution network Commission all the consumers of the island to the new distribution network to the citent than over the distribution network to the client	•		Petrol drums for the water with petrols 200 litrs	2	
installation of the DBs, connection of the incoming, outdoing and all consumer cables to the DBs. Cement bags (50kg) for DB Install all the DBs on the concrete frames Install all the DBs on the concrete frames Install all the DBs on the concrete frames Connect all the main cables to the DBs Connect all the main cables to the DBs Connect all the main cables to the DBs Connect all the main cables to the existing Switchboard and new feeder pillars which will be installed inside the P/H control room or the new switchboard and the new feeder pillars. If it is a switchboard and the new feeder pillars. If it is a switchboard and the installation of the switchboard will be consumer cables to the existing consumer KWH meter boards and new KWH meter boards. Commission the distribution network Commission all the consumers of the island to the new distribution network to the client Babel all the DB from the external side of the front Hand over the distribution network to the client	<u> </u>		All other materials required to complete the		
outcoing and all consumer cables to the DBs. Cement bags (50kg) for DB Install all the DBs on the concrete frames Install all the DBs on the concrete frames Connect all the main cables to the DBs terminals Connect all the consumer cables to the DBs Connect all the consumers and main cables of the DBs Connect all the main cables to the exisiting switchboard and new feeder pillars which will be installed inside the P/H control room or the new switchboard and the new feeder pillars. If it is a switchboard and the new feeder pillars. If it is a switchboard and the client. Connect all the consumer cables to the existing consumer KWH meter boards and new KWH meter boards and new KWH meter boards and the island to the new distribution network Commission all the consumers of the island to the new distribution network Seal the spare glands of the DBs with silicons Label all the DB from the external side of the front Hand over the distribution network to the client		6.14	installation of the DBs, connection of the incoming,	7	
Install all the DBs on the concrete frames Install all the PVC glands to the DBs Connect all the main cables to the DBs Connect all the consumer cables to the DBs Label all the consumers and main cables of the DBs Connect all the main cables to the exisiting switchboard and new feeder pillars which will be installed inside the P/H control room or the new switchboard and the new feeder pillars. If it is a switchboard the installation of the switchboard will be completed by the client. Connect all the consumer cables to the existing consumer KWH meter boards and new KWH meter boards. Commission the distribution network Commission all the consumers of the island to the new distribution network Seal the spare glands of the DBs with silicons Label all the DB from the external side of the front Hand over the distribution network to the client		6 15	outooing and all consumer cables to the DBsCement bacs (50kg) for DB	58	
Connect all the PVC glands to the DBs Connect all the main cables to the DBs terminals Connect all the consumer cables to the DBs Label all the consumers and main cables of the DBs Connect all the main cables to the exisiting switchboard and new feeder pillars which will be installed inside the P/H control room or the new switchboard and the new feeder pillars. If it is a switchboard the installation of the switchboard will be completed by the client. Connect all the consumer cables to the existing consumer KWH meter boards and new KWH meter boards and new KWH meter boards. Commission the distribution network Commission all the consumers of the island to the new distribution network Seal the spare glands of the DBs with silicons Label all the DB from the external side of the front Hand over the distribution network to the client	•	6.16	Install all the DBs on the concrete frames	29	
Connect all the main cables to the DBs terminals Connect all the consumer cables to the DBs Label all the consumers and main cables of the DBs Connect all the main cables to the existing Switchboard and new feeder pillars which will be installed inside the P/H control room or the new switchboard and the new feeder pillars. If it is a switchboard the installation of the switchboard will be completed by the client. Connect all the consumer cables to the existing consumer KWH meter boards and new KWH meter boards. Commission the distribution network Commission all the consumers of the island to the new distribution network Seal the spare glands of the DBs with silicons Label all the DB from the external side of the front Hand over the distribution network to the client	•	6.17	Install all the PVC glands to the DBs	01 lot	
Connect all the consumer cables to the DBs Label all the consumers and main cables of the DBs Connect all the main cables to the exisiting switchboard and new feeder pillars which will be installed inside the P/H control room or the new switchboard and the new feeder pillars. If it is a switchboard the installation of the switchboard will be completed by the client. Connect all the consumer cables to the exisiting consumer KWH meter boards and new KWH meter boards. Commission the distribution network Commission all the consumers of the island to the new distribution network Seal the spare glands of the DBs with silicons Label all the DB from the external side of the front Hand over the distribution network to the client	•	6.18	Connect all the main cables to the DBs terminals	01 lot	
be ew track		6.19	Connect all the consumer cables to the DBs	01 fot	
be ew mg mg mg mg mg mg mg mg mg mg mg mg mg		6.20	Label all the consumers and main cables of the DBs	01 lot	
e w ard a start the reference of the ref			Connect all the main cables to the exisiting		
ew ard the transfer and the transfer ard the transfer ard the transfer ard transfer are transfer			switchboard and new feeder pillars which will be		
ard ing		2	installed inside the P/H control room or the new	<u> 10</u>	
ing the control of th		770	switchboard and the new feeder pillars. If it is a		
ter			_		
iter		<u> </u>	will be completed by the client.		
			Connect all the consumer cables to the existing		
		6.22		01 lot	
			boards.		
		6.23	Commission the distribution network	01 lot	
	'	6.24	Commission all the consumers of the island to the new distribution network	01 lot	
		6.25	Seal the spare glands of the DBs with silicons	01 lot	
	اـــــــــــــــــــــــــــــــــــــ	6.26	Label all the DB from the external side of the front	01 lot	
		6.27	6.27 Hand over the distribution network to the client	01 lot	

TECHNICAL SPECIFICATION SHEET(3) L.MAABAIDHOO ISLAND

No. 1. 5): Main Distribution Cables 04 core 25 sq.mm

1 Quantity (to be specified) 2 Manufacturer (to be specified) 3 Model (to be specified) 4 Country of Origin Underground Ca 5 General Description Underground Ca 6 Specifications BS 6004 Applicable Standard 600/1000V Nominer of cores 4 Conductor Plain annealed or Conductor Nominal cross sectional area 25 sq. mm No. / diameter of wire 772.14 mm Shape of conductor 90 degree centig Min. thickness of inner covering 20.05mm Sheath 1.24mm Approx. diameter over inner covering 20.05mm Sheath 1.24mm Approx. diameter of completed cable 27.8mm Voltage test on completed cable 27.8mm Voltage test on completed cable 27.7 ohrn/km Max. insulation resistance at 70 degree 5 Mohrn/km Core identification 600 m Approx. weight of cable drum 600 m				Required Specification	Ferral Specifications
Manufacturer Model Country of Origin General Description Specifications Applicable Standard Voltage Class Number of cores Conductor Nominal cross sectional area No. / diameter of wire Shape of conductor Insulation Material Min. thickness of inner covering Approx. diameter over inner covering Sheath Min. thickness of sheath Approx. diameter of completed cable Voltage test on completed cable Voltage test on completed cable Voltage test on completed cable Voltage test on completed cable Voltage test on completed cable Wax. conductor resistance at 20 degree cent. Max. insulation resistance at 70 degree cent. Core identification Max. length of cable drum Approx. weight of completed cable	_	ਰ	uantity		
Model Country of Origin General Description Specifications Applicable Standard Voltage Class Number of cores Conductor Nominal cross sectional area No. / diameter of wire Shape of conductor Insulation Material Min. thickness of insulation Inner covering Min. thickness of inner covering Sheath Min. thickness of sheath Approx. diameter of completed cable Voltage test on completed cable Voltage test on completed cable Max. conductor resistance at 20 degree cent. Max. insulation resistance at 70 degree cent. Core identification Max. length of cable drum Approx. weight of completed cable Max. length of cable drum Approx. weight of completed cable	7		anufacturer	(to be specified)	
Country of Origin General Description Specifications Applicable Standard Voltage Class Number of cores Conductor No. / diameter of wire Shape of conductor Insulation Material Min. thickness of insulation Inner covering Min. thickness of insulation Sheath Min. thickness of sheath Approx. diameter over inner covering Sheath Min. thickness of sheath Approx. diameter of completed cable Voltage test on completed cable Voltage test on completed cable Wax. conductor resistance at 20 degree cent. Max. insulation resistance at 70 degree cent. Core identification Max. length of cable drum Approx. weight of completed cable Max. length of cable drum Approx. weight of completed cable	8		odel	(to be specified)	
General Description Specifications Applicable Standard Voltage Class Number of cores Conductor Nominal cross sectional area No. / diameter of wire Shape of conductor Insulation Material Min. thickness of insulation Inner covering Min. thickness of insulation Sheath Min. thickness of sheath Approx. diameter of completed cable Voltage test on completed cable Voltage test on completed cable Wax. conductor resistance at 20 degree cent. Max. insulation resistance at 70 degree cent. Core identification Max. length of cable drum Approx. weight of completed cable Max. length of cable drum Approx. weight of completed cable	4		ountry of Origin	(to be specified)	
Applicable Standard Voltage Class Number of cores Conductor Nominal cross sectional area No. / diameter of wire Shape of conductor Insulation Material Min. thickness of insulation Inner covering Approx. diameter over inner covering Sheath Min. thickness of sheath Approx. diameter of completed cable Voltage test on completed cable Voltage test on completed cable Wax. conductor resistance at 20 degree cent. Max. insulation resistance at 70 degree cent. Core identification Max. length of cable drum Approx. weight of completed cable	2	$\overline{}$	eneral Description	Underground Cables for Power Distribution	
icable Standard ige Class ber of cores fuctor inal cross sectional area diameter of wire be of conductor ation Material thickness of insulation covering thickness of inner covering ox. diameter over inner covering thickness of sheath thickness of sheath cox. diameter of completed cable ge test on completed cable conductor resistance at 20 se cent. insulation resistance at 70 degree identification length of cable drum lox. weight of completed cable	9		oecifications		
ber of cores Juctor Juctor Julian cross sectional area diameter of wire De of conductor ation Material Thickness of insulation Covering Thickness of inner covering Ox. diameter of completed cable ge test on completed cable conductor resistance at 20 De cent. Insulation resistance at 70 degree identification length of cable drum Ox. weight of completed cable conductor resistance at 20 De cent. Insulation resistance at 70 degree insulation resistance at 70 degree insulation resistance at 70 degree insulation resistance at 70 degree identification			Applicable Standard	BS 6004	
ber of cores Juctor Inal cross sectional area diameter of wire be of conductor ation Material thickness of insulation covering Ox. diameter over inner covering th thickness of sheath Ox. diameter of completed cable ge test on completed cable conductor resistance at 20 se cent. insulation resistance at 70 degree identification length of cable drum Ox. weight of completed cable			Voltage Class	600/1000V	
ductor inal cross sectional area diameter of wire be of conductor ation Material thickness of insulation covering thickness of inner covering thickness of inner covering thickness of sheath thickness of sheath thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 se cent. insulation resistance at 70 degree identification length of cable drum lox. weight of completed cable			Number of cores	4	
diameter of wire diameter of wire e of conductor ation Material thickness of insulation covering thickness of inner covering ox. diameter over inner covering th th th cox. diameter of completed cable ge test on completed cable ge test on completed cable conductor resistance at 20 se cent. insulation resistance at 70 degree identification length of cable drum lox. weight of completed cable ox. weight of completed cable			Conductor	Plain annealed copper wire	
diameter of wire be of conductor ation Material thickness of insulation covering thickness of inner covering thickness of inner covering th thickness of sheath ox. diameter over inner covering th thickness of sheath ox. diameter of completed cable conductor resistance at 20 se cent. insulation resistance at 70 degree identification length of cable drum lox. weight of completed cable ox. weight of completed cable			Nominal cross sectional area	25 sq.mm	
ation Material thickness of insulation covering thickness of inner covering ox. diameter over inner covering th thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 se cent. insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable			No. / diameter of wire	7/2.14 mm	
ation Material thickness of insulation covering thickness of inner covering ox. diameter over inner covering th thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 se cent. insulation resistance at 70 degree insulation for a form of completed cable ox. weight of completed cable ox. weight of completed cable			Shape of conductor	90 degree centigrade sector	
thickness of insulation covering thickness of inner covering ox. diameter over inner covering th thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 se cent. insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable				XLPE	
thickness of inner covering ox. diameter over inner covering that thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 se cent. insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable	•	,	Min. thickness of insulation	0.98mm	
thickness of inner covering ox. diameter over inner covering th thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 se cent. insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable			Inner covering	PVC TYPE TM1	
ox. diameter over inner covering the thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 se cent. insulation resistance at 70 degree insulation resistance at 70 degree insulation for cable drum ox. weight of completed cable			Min. thickness of inner covering	0.60mm	
thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 se cent. insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable			Approx. diameter over inner covering	20.05mm	
thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 se cent. insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable			Sheath	PVC TYPE ST2(Flame Retardant)	
ox. diameter of completed cable ge test on completed cable conductor resistance at 20 se cent. insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable			Min. thickness of sheath	1.24mm	
ge test on completed cable conductor resistance at 20 se cent. insulation resistance at 70 degree identification length of cable drum length of completed cable			Approx. diameter of completed cable	27.8mm	
conductor resistance at 20 se cent. insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable			Voltage test on completed cable	3.5/5 kV/mins	
insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable			Max. conductor resistance at 20 degree cent.	0.727 ohm/km	
-			insulation resistance at 70	5 Mohm/km	
-			Core identification	Red, Yellow, Blue, Black	
			Max. length of cable drum	500 m	
			Approx. weight of completed cable	2026 kg/km	
	-		-		

TECHNICAL SPECIFICATION SHEET(3) L.MAABAIDHOO ISLAND

No. 1. 6): Branch Cables 04 core 16 sq.mm

			Required Specification	Tenderer's Specifications
-	۲	Quantity	300 m	
8		Manufacturer	(to be specified)	
က		Model	(to be specified)	
4	_	Country of Origin	(to be specified)	
5		General Description	Underground Cables for Power Distribution	
9		Specifications		
	!	Applicable Standard	BS 6004	
		Voltage Class	600/1000V	
		Number of cores	4	
<u>.</u>		Conductor	Plain annealed copper wire	1,000,000
		Nominal cross sectional area	16 sq.mm	
		No. / diameter of wire	7/1.70 mm	
		Shape of conductor	Circular compact	
		Insulation Material	XLPE	
		Min. thickness of insulation	0.80mm	
		Inner covering	PVC TYPE TM1	
		Min. thickness of inner covering	0.90mm	
		Approx. diameter over inner covering	21.8mm	
		Sheath	PVC TYPE ST2(Flame Retardant)	
		Min. thickness of sheath	1.16mm	
		Approx. diameter of completed cable	26.3mm	
		Voltage test on completed cable	3.5/5 kV/mins	
		Max. conductor resistance at 20 degree cent.	1.15 օիու/km	
		Max. insulation resistance at 70 degree cent.	5 Mohm/km	
		Core identification	Red, Yellow, Blue, Black	
		Max. length of cable drum	500 m	
		Approx. weight of completed cable	1545 kg/km	
				provide grant to
	\dashv			

TECHNICAL SPECIFICATION SHEET(3) L.MAABAIDHOO ISLAND

No. 1. 7): Brach Cables 02 core 06 sq.mm

Manufacturer Model Country of Origin General Description Specifications Applicable Standard Voltage Class Number of cores Conductor Nominal cross sectional area No. / diameter of wire Shape of conductor Insulation Material Min. thickness of insulation Inner covering Min. thickness of insulation Sheath Min. thickness of sheath Approx. diameter over inner covering Sheath Min. thickness of sheath Approx. diameter of completed cable Voltage test on completed cable Voltage test on completed cable Cont. Max. conductor resistance at 70 degree cent. Core identification Max. length of cable drum Approx. weight of completed cable Max. length of cable drum Approx. weight of completed cable	₩ ~	353	Ouantity	13500 m	
Model Country of Origin General Description Specifications Applicable Standard Voltage Class Number of cores Conductor Nominal cross sectional area No. / diameter of wire Shape of conductor Insulation Material Win. thickness of insulation Inner covering Min. thickness of inner covering Sheath Min. thickness of sheath Approx. diameter of completed cable Voltage test on completed cable Wax. conductor resistance at 20 degree cent. Max. insulation resistance at 70 degree cent. Core identification Max. length of cable drum Approx. weight of completed cable Max. length of cable drum Approx. weight of completed cable	<u>ا</u> رم		anufacturer	(to be specified)	T
Country of Origin General Description Specifications Applicable Standard Voltage Class Number of cores Conductor Nominal cross sectional area No. / diameter of wire Shape of conductor Insulation Material Min. thickness of insulation Inner covering Min. thickness of insulation Sheath Min. thickness of sheath Approx. diameter over inner covering Sheath Min. thickness of sheath Approx. diameter of completed cable Voltage test on completed cable Voltage test on completed cable Wax. conductor resistance at 70 degree cent. Max. insulation resistance at 70 degree cent. Core identification Max. length of cable drum Approx. weight of completed cable	m		lebc	(to be specified)	
General Description Specifications Applicable Standard Voltage Class Number of cores Conductor Nominal cross sectional area No. / diameter of wire Shape of conductor Insulation Material Min. thickness of insulation Inner covering Min. thickness of inner covering Sheath Min. thickness of sheath Approx. diameter of completed cable Voltage test on completed cable Voltage test on completed cable Wax. conductor resistance at 20 degree cent. Max. insulation resistance at 70 degree cent. Core identification Max. length of cable drum Approx. weight of completed cable	4		ountry of Origin	(to be specified)	
Applicable Standard Voltage Class Number of cores Conductor Nominal cross sectional area No. / diameter of wire Shape of conductor Insulation Material Min. thickness of insulation Inner covering Min. thickness of inner covering Sheath Min. thickness of sheath Approx. diameter over inner covering Sheath Min. thickness of sheath Approx. diameter of completed cable Voltage test on completed cable Voltage test on completed cable Cent. Max. conductor resistance at 70 degree cent. Core identification Max. length of cable drum Approx. weight of completed cable	l _r C	-	eneral Description	Underground Cables for Power Distribution	
ige Class ber of cores tuctor inal cross sectional area diameter of wire e of conductor ation Material thickness of insulation covering thickness of inner covering ox. diameter over inner covering thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 degree insulation resistance at 70 degree insulation completed cable ox. weight of completed cable identification length of cable drum ox. weight of completed cable	9		pecifications		
ber of cores ber of cores luctor inal cross sectional area diameter of wire be of conductor ation Material thickness of insulation covering thickness of inner covering thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 70 degree insulation resistance at 70 degree insulation completed cable conductor completed cable ox. weight of completed cable insulation resistance at 70 degree insulation resistance at 70 degree insulation resistance at 70 degree			Applicable Standard	BS 6004	
ber of cores luctor inal cross sectional area diameter of wire be of conductor ation Material thickness of insulation covering ox. diameter over inner covering th th thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 degree insulation resistance at 70 degree insulation identification length of cable drum ox. weight of completed cable ox. weight of completed cable			Voltage Class	600/1000V	
diameter of wire diameter of wire e of conductor ation Material thickness of insulation covering thickness of inner covering ox. diameter over inner covering th thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 degree insulation resistance at 70 degree insulation identification length of cable drum ox. weight of completed cable ox. weight of completed cable			Number of cores	2	
diameter of wire diameter of wire e of conductor ation Material thickness of insulation covering thickness of inner covering thickness of inner covering th th th th th th th th th th th th th			Conductor	Plain annealed copper wire	
diameter of wire be of conductor ation Material thickness of insulation covering thickness of inner covering ox. diameter over inner covering th thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 degree insulation resistance at 70 degree insulation for completed cable ox. weight of completed cable ox. weight of completed cable			Nominal cross sectional area	06 sq.mm	
ation Material thickness of insulation covering thickness of inner covering thickness of inner covering ox. diameter over inner covering th thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 degree insulation resistance at 70 degree insulation cable drum ox. weight of completed cable ox. weight of completed cable			No. / diameter of wire	7/1.04 mm	
thickness of insulation covering thickness of inner covering thickness of inner covering ox. diameter over inner covering th thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 degree insulation resistance at 70 degree insulation for completed cable ox. weight of completed cable ox. weight of completed cable			Shape of conductor	Round	<u> </u>
thickness of insulation covering thickness of inner covering th thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 degree insulation resistance at 70 degree insulation completed cable ox. weight of completed cable ox. weight of completed cable				XLPE	1
thickness of inner covering ox. diameter over inner covering th th th th thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 degree insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable ox. weight of completed cable			Min. thickness of insulation	0.80mm	1
thickness of inner covering ox. diameter over inner covering th thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 degree insulation resistance at 70 degree insulation for completed cable ox. weight of completed cable ox. weight of completed cable			Inner covering	PVC TYPE TM1	ł
ox. diameter over inner covering th thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 degree insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable			Min. thickness of inner covering	0.40mm	
thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 degree insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable			Approx. diameter over inner covering	10.6mm	
thickness of sheath ox. diameter of completed cable ge test on completed cable conductor resistance at 20 degree insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable			Sheath	PVC TYPE ST2(Flame Retardant)	
ox. diameter of completed cable ge test on completed cable conductor resistance at 20 degree insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable			Min. thickness of sheath	0,92mm	ļ
ge test on completed cable conductor resistance at 20 degree insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable			Approx. diameter of completed cable	12.5mm	1
conductor resistance at 20 degree insulation resistance at 70 degree identification length of cable drum bx. weight of completed cable			Voltage test on completed cable	3.5/5 kV/mins	Ī
insulation resistance at 70 degree identification length of cable drum ox. weight of completed cable			Max. conductor resistance at 20 degree cent.	3.08 ohm/km	<u> </u>
			Max. insulation resistance at 70 degree cent.	5 Mohm/km	
-			Core identification	Red/Black	
-			Max. length of cable drum	500 m	
			Approx. weight of completed cable	209 kg/km	
					}
			9		

TECHNICAL SPECIFICATION SHEET(3) L.MAABAIDHOO ISLAND

A DIMENSION

No. 2. 1): Distribution Box: Type 01: Feeder Pillars

			Required Specification Tenderers Specifications	8
-	ð	Quantity		X3070
7	$\overline{}$	Manufacturer	(to be specified)	
ო	Model	del	(to be specified)	
4		Country of Origin	(to be specified)	
ည	\neg	General Description	Branch distribution Feeders	
9		Specifications		
		Enclosure	GRP (Glass Reinforced Polyester)	
		IP rating according to IEC 529	99 dl	
		Insulation class according to IEC 232	Class II	
		Canopies	Both top and bottom	
		Door	Plain door equipped with 2 or 3 locks with 8mm triangular centers	
		Color	RAL 7032	
		Other function for enclosure	4 fixing bolts in the back of the enclosure for mounting plate fastening	
			Depth adjustment slides for orion enclosure	
			Plain mounting plates	
		77 7. 12	Modular chassis with front cover	
		Incoming side	One(1) Terminal block (4 pole) capable to connect 4 core 70 sq.mm copper cables	
			Five (5) MCCB(TPN) 100A, 20kA	
			Five (5) ELRs complete with ZCTs.	
			Five (5) shunt trip coil for the MCCBs	
			One (01) set of flexible wiring with 70 sq.mm cables	
			One (01) set of lugs and lug sleeves	
		Outgoing side		
			One (1) terminal blocks capable to connect 120 sg.mm 04 core cables.	
			Four (4) terminal blocks capable to connect 70 sq.mm 04 core cables.	
			One (1) set of wiring	ļ
		Size	Maximum 1150mm(height)х 850mm(width)х 300mm(depth)	
		Carrying weight	6 - 200 kg	

TECHNICAL SPECIFICATION SHEET(3) L.MAABAIDHOO ISLAND

No. 2. 2): Distribution Box: Type 02: 18MCBs

			Required Specification Tenderers Specifications	100
~	ō	Quantity		
7		Manufacturer	(to be specified)	
ť		idel	(to be specified)	
4		Country of Origin	(to be specified)	
5		General Description	Branch distribution circuit with MCB	
0		Specifications		
		Enclosure	GRP (Glass Reinforced Polyester)	
		IP rating according to IEC 529	IP 65	
		Insulation class according to IEC 232	Class II	
		Canopies	Both top and bottom	
		Door	Plain door equipped with 2 or 3 locks with 8mm triangular centers	
	·	Color	RAL 7032	
		Other function for enclosure	4 fixing bolts in the back of the enclosure for mounting plate fastening	
			Depth adjustment slides for orion enclosure	
			Plain mounting plates	
			Modular chassis with front cover	
	_	Incoming side	One(1) Terminal block (4 pole) capable to connect 4 core 70 sq.mm copper cables	
			One(1) MCCB(TPN) 63A, 20kA	
		Outgoing side	Eighteen (18) MCBs (SP) 40A, 16kA	
			One (1) insulated Prong Bus 18 CCTs "U" type.	
			One (1) insulated neutral link 18 holes (4 holes 16 sq.mm, and others 6 sq.mm)	,
· · · · · · · · · · · · · · · · · · ·			One (1) insulated earth link 18 holes (4 holes 16 sq.mm, and others 6 sq.mm)	
			One(1) set of flexible wiring c/w lugs, lug sleeves and others	
	· <u></u>	Size	Maximum 650mm(height)x 500mm(width)x 200mm(depth)	
	_	Carrying weight	6 - 150 kg	

TECHNICAL SPECIFICATION SHEET(3) L.IMAABAIDHOO ISLAND

No. 2. 3): Distribution Box: Type 03: 12 MCBs

		Required Specification - Tenderer's Specifications	Kygindes
1	Quantity	10 Units	
2	Manufacturer	(to be specified)	
က	Model	(to be specified)	
4	Country of Origin	(payioads eq oj)	Γ.
က	General Description	Branch distribution circuit with MCB	
ဖ	Specifications		_
	Enclosure	GRP (Glass Reinforced Polyester)	
	IP rating according to IEC 529	IP 65	_
	Insulation class according to IEC 232	Class II	1
	Canopies	Both top and bottom	
	Door	Plain door equipped with 2 or 3 locks with 8mm triangular centers	
	Color	RAL 7032	_
	Other function for enclosure	4 fixing bolts in the back of the enclosure for mounting plate fastening	
		Depth adjustment slides for orion enclosure	
		Plain mounting plates	
		Modular chassis with front cover	1
	Incoming side	One(1) Terminal block (4 pole) capable to connect 4 core 70 sq.mm copper cables	1
		One(1) MCCB(TPN) 63A, 20kA	,
	Outgoing side	Twelve (12) MCBs (SP) 40A, 16kA	
		One (1) insulated Prong Bus 18 CCTs "U" type.	,
		One (1) insulated neutral link 18 holes (4 holes 16 sq.mm, and others 6 sq.mm)	
		One (1) insulated earth link 18 holes (4 holes 16 sq.mm, and others 6 sq.mm)	
		One(1) set of flexible wiring c/w lugs, lug sleeves and others	
	Size	Maximum 500mm(height)x 400mm(width)x 200mm(depth)	
Ì	Carrying weight	6 - 120 kg	_

TECHNICAL SPECIFICATION SHEET(3) L.IMAABAIDHOO ISLAND

No. 3. : Accessories

表於			Required Specification	
	1 0	Quantity	1 Lot	
` `	2 M	Manufacturer	(to be specified)	
	3	Model	(to be specified)	
	4 0	Country of Origin	(to be specified)	
	<u>ල</u>	General Description	All accessories to install LV Cables and Distribution Box	
	9 8	Specifications		
		PVC glands for 4 core 25 sq.mm copper cables	65	
		PVC glands for 4 core 16 sq.mm copper cables	12	
		PVC glands for 2 core 6 sq.mm copper cables	364	
		Copper lugs 25 sq.mm with 12mm dia (terminal bolt connecting hole)	186	
		Lug sleeves 25 sq.mm (red color)	54	
		Lug sleeves 25 sq.mm (yellow color)	54	
		Lug sleeves 25 sq.mm (blue color)	54	
		Lug sleeves 25 sq.mm (black color)	54	
		Roll insulation tape (black color)	100	
		Roll scotch tape	4	
		Cable ties 300 mm length	400	
		Cable ties 150 mm length	400	
			70.00	
		ALACA CONTRACTOR OF THE CONTRA		
	_			

TECHNICAL SPECIFICATION SHEET(3) L.IMAABAIDHOO ISLAND

No. 4. : Tools

1984		Required Specification Tenderers Specifications	ations
7	Quantity	1 Lot	:
8	Manufacturer	(to be specified)	
က	Model	(to be specified)	
4	Country of Origin	(to be specified)	
2	General Description	All tools to install LV Cables	
9	Specifications		
	Level indicator 12"	2	
	Screwdriver 12" (-)	2	
	Screwdriver 12" (+)	2	
	Screwdriver 6" (-)	2	
	Screwdriver 6" (+)	2	
	Philips voltage neon light testers 6"	2	
	Pliers 12"	2	
	Side cutters normal size	2	
	Cable cutters medium size	2	
	Hacksaw frames	2	
	Hacksaw blades (high speed)	12	
	NT cutters	7	
	NT cutter blade packets	4	
	Adjustable wrech 6" adjustable range	2.5	
	Adjustable wrech 8" adjustable range	2	
	Elankee set 24 piece set	2	
	Hammers 01 lb	7	
	Hammers 02 lb	2	
	Hammers 18 lb		
	Alignment indicator with 3m rope (Olanbu) metal type	2	
	Measuring wheel 100m	The second secon	
	Measuring wheel 10m		
	Empty PVC big size tool box (200mm height, 600mm length, 200mm depth at least)		
İ			

TECHNICAL SPECIFICATION SHEET(3) L.MAABAIDHOO ISLAND

No. 5.: Installation and commission works

			Required Specification	Tenderer's Specifications
-	Quantity	tity	1 Lot	
2	Manu	2 Manufacturer	(to be specified)	
3	3 Model	l .	(to be specified)	
4		Country of Origin	(to be specified)	
5		General Description	All the items and workmanshi required to do the installation and commissioning work	
ဖြ	—	Specifications		
	6.1	6.1 Brass screws 2" x 12no.	135	
	6.2	Self tap screws 2" x 12 no.	135	
	6.3	6.3 Wall plus 06 mm dia, 50 mm length	260	
	6.4	Metal type round saw set which shall include 25 6.4 mm, 30 mm, 35 mm, 50 mm, 75mm, cutting dies	2	
	6.5	Cable ties 200 mm length	300	
	6.6	6.6 Unit water Pump (petrol used as fuel) 50 mm pipe	2	
		Type: 4 stroke overhead valve single cylinder, 25		
		Total displacement 118 cm ³ (7.2 cu.in.)		
		Bore and stroke 60 x 42 mm (2.4 x 1.7 in)		
	İ	Max Horse power 2.9 KW (4.0 HP) / 3600 min ⁻¹		
		Max. Torque 7.5 N.M (0.75 kg.m, 5.4 lbf.ft) 2500		
		Compression Ratio: 7.5:1, 8.5:1		
		Fuel consumtion: 313 g/kwh (230g/HPh,0.51 lb/Hph)		
		Colling system : Forced air	•	
		Ignition system : Transistorized magento ignition		
		Ignition timing: 25 degree B.T.D.C fixed		
		Spark plug : BP6 ES (NGK)		
		Carburetor: Horizontal type butterfly valve	The state of the s	
		Air cleaner: Dual element type		
		Governor : Centrifugal mechanical governor		
		Lubricating system : Splash		
		Oil capacity: 0.6 litres		
		Starting system: Recoil starter		
		Stopping system: Ignition primary circuit ground		The state of the s

TECHNICAL SPECIFICATION SHEET(3) L.MAABAIDHOO ISLAND

No. 5.: Installation and commission works

			Required Specification	Tenderer's Specifications
		Fuel used : Regular gasoline (86 pump octane :		
<u> </u>		Fule tank capacity : 2.5 litres		
!	6.7	Met hose, PVC rigid Spiral 2"	20m	
<u> </u>	6.8	6.8 Met hose, PVC discharged 2" (Superhose)	70m	
<u> </u>	6.9	Foot valve	2	
<u> </u>	6.10	6.10 Hose clip	8	
<u> </u>	6.11	Ring hose Clip	8	
<u> </u>	6.12		01 unit	
<u>1</u>	6.13	6.13 Petrol drums for the water with petrols 200 litrs	2	
<u>l</u>	,	All other materials required to complete the		
	6.74	6.14 installation of the DBs, connection of the incoming, outdoing and all consumer cables to the DBs	7	
<u></u>	6.15	Cement bags (50kg) for DB	46	
<u> </u>	6.16	6.16 Install all the DBs on the concrete frames	24	
<u> </u>	6.17	6.17 Install all the PVC glands to the DBs	01 lot	
1	6.18	6.18 Connect all the main cables to the DBs terminals	01 lot	
<u> </u>	6.19	6.19 Connect all the consumer cables to the DBs	01 lot	
<u> </u>	6.20	6.20 Label all the consumers and main cables of the DBs	01 lot	
ı		Connect all the main cables to the exisiting		
		switchboard and new feeder pillars which will		
	0.01	be installed inside the P/H control room or the	tol 10	
	7.0	new switchboard and the new feeder pillars. If it	5	
		is a switchboard the installation of the		,
		switchboard will be completed by the client.	- Company - Comp	
I		Connect all the consumer cables to the exisiting		
	6.22	6.22 consumer KWH meter boards and new KWH meter	01 lot	
		boards.		
	6.23	6.23 Commission the distribution network	01 lot	
<u> </u>	6.24	Commission all the consumers of the island to the new distribution network	01 lot	
	6.25	Seal the spare glands of the DBs with silicons	01 lot	
<u></u>	6.26	6.26 Label all the DB from the external side of the front	01 lot	
	6.27	Hand over the distribution network to the client	01 lot	

No. 1. 1): Main Distribution Cables 04 core 120sq.mm

			Required Specification [] Tenderer's Specifications	ifications
	-	Quantity	m 006	
LV	2	Manufacturer	(to be specified)	
(4)	က	Model	(to be specified)	
4	4	Country of Origin	(to be specified)	
40	5	General Description	Underground Cables for Power Distribution	
9	9	Specifications		
		Applicable Standard	BS 6004	
		Voltage Class	600/1000V	
		Number of cores	*	
		Conductor	Plain annealed copper wire	
		Nominal cross sectional area	120 sq.mm	
		No. / diameter of wire	37/2.03 mm	
		Shape of conductor	90 degree centigrade sector	
		Insulation Material	XLPE	
		Min. thickness of insulation	1.52mm	
		Inner covering	PVC TYPE TM1	
		Min. thickness of inner covering	1.30mm	
		Approx. diameter over inner covering	37.87mm	
		Sheath	PVC TYPE ST2(Flame Retardant)	
		Min. thickness of sheath	2.25mm	
		Approx. diameter of completed cable	49.3mm	
		Voltage test on completed cable	3.5/5 kV/mins	
		Max. conductor resistance at 20 degree cent.	0.153 ohm/km	
		Max. insulation resistance at 70 degree cent.	5 Mohm/km	
		Core identification	Red, Yellow, Blue, Black	
		Max. length of cable drum	500 m	
		Approx. weight of completed cable	7422 kg/km	
]				

No. 1. 4): Main Distribution Cables 04 core 35 sq.mm

Quantity	ntity	1000m	
	Manufacturer	(to be specified)	
Ť	Model	(to be specified)	
ı 5 I	Country of Origin	(to be specified)	
Ē	General Description	Underground Cables for Power Distribution	
ŭ	Specifications		
⊢	Applicable Standard	BS 6004	
	Voltage Class	600/1000V	
_	Number of cores	4	
	Conductor	Plain annealed copper wire	
	Nominal cross sectional area	35 sq.mm	
_	No. / diameter of wire	7/2.52 mm	
, ,,,	Shape of conductor	90 degree centigrade sector	
_	Insulation Material	XLPE	
_	Min. thickness of insulation	0.98mm	
	Inner covering	PVC TYPE TM1	
	Min. thickness of inner covering	0.60mm	
_	Approx. diameter over inner covering	22.85mm	
	Sheath	PVC TYPE ST2(Flame Refardant)	
_	Min. thickness of sheath	0.60mm	
_	Approx. diameter of completed cable	30.3mm	
	Voltage test on completed cable	3.5/5 kV/mins	
	Max. conductor resistance at 20 degree cent.	0.524 ohm/km	
	Max. insulation resistance at 70 degree cent.	5 Mohm/km	
	Core identification	Red, Yellow, Blue, Black	
	Max. length of cable drum	500 m	
	Approx. weight of completed cable	2514 kg/km	

TECHNICAL SPECIFICATION SHEET(4) L.GAN-MUKURIMAGU ISLAND

No. 1. 5): Main Distribution Cables 04 core 25sq.mm

			Required Specification	Tenderer's Specifications
~	Ö	Quantity	4150 m	
7		Manufacturer	(to be specified)	
က		Model	(to be specified)	
4		Country of Origin	(to be specified)	
ις.		General Description	Underground Cables for Power Distribution	
9		Specifications		
		Applicable Standard	BS 6004	
		Voltage Class	600/1000V	
	-	Number of cores	4	
		Conductor	Plain annealed copper wire	
		Nominal cross sectional area	25 sq.mm	
		No. / diameter of wire	7/2.14 mm	
		Shape of conductor	90 degree centigrade sector	
		Insulation Material	XLPE	
		Min. thickness of insulation	0.98mm	
		Inner covering	PVC TYPE TM1	
		Min. thickness of inner covering	0.60mm	
		Approx. diameter over inner covering	20.5mm	
		Sheath	PVC TYPE ST2(Flame Retardant)	
		Min. thickness of sheath	1.24mm	
		Approx. diameter of completed cable	27.8тт	
		Voltage test on completed cable	3.5/5 kV/mins	
		Max. conductor resistance at 20 degree cent.	0.727 ohm/km	
		Max. insulation resistance at 70 degree cent.	5 Mohm/km	
		Core identification	Red, Yellow, Blue, Black	
		Max. length of cable drum	500 m	
		Approx. weight of completed cable	2026 kg/km	

No. 1. 6): Branch Cables 04 core 16 sq.mm

Manufacturer (0		
	(to be specified)	
	(to be specified)	
Country of Origin	(to be specified)	
General Description	Underground Cables for Power Distribution	
Specifications		
Applicable Standard	BS 6004	
	600/1000V	
Number of cores		
Conductor	Plain annealed copper wire	
Nominal cross sectional area	16 sq.mm	
No. / diameter of wire	7/1.70 mm	
Shape of conductor	Circular compact	
Insulation Material	XLPE	
Min. thickness of insulation 0	0.80mm	
Inner covering	PVC TYPE TM1	•
Min. thickness of inner covering	0.90mm	
Approx. diameter over inner covering 2	21.8mm	
Sheath	PVC TYPE ST2(Flame Retardant)	
Min. thickness of sheath	1.16mm	
Approx. diameter of completed cable 2	26.3mm	
Voltage test on completed cable	3.5/5 kV/mins	-
Max. conductor resistance at 20 degree cent.	1.15 ohm/km	
Max. insulation resistance at 70 5 degree cent.	5 Mohm/km	
Core identification	Red, Yellow, Blue, Black	
Max. length of cable drum	500 m	
Approx. weight of completed cable	1545 kg/km	

No. 1. 7): Brach Cables 02 core 06 sq.mm

			Required Specification	Tenderer's Specifications
~	ğ	Quantity	20200 m	
7	_	Manufacturer	(to be specified)	
က		Model	(to be specified)	
4		Country of Origin	(to be specified)	
လ		General Description	Underground Cables for Power Distribution	
9		Specifications		
		Applicable Standard	BS 6004	
		Voltage Class	600/1000V	
		Number of cores	2	
		Conductor	Plain annealed copper wire	
		Nominal cross sectional area	06 sq.mm	
		No. / diameter of wire	7/1.04 mm	
		Shape of conductor	Round	
	<u></u>	Insulation Material	XLPE	
		Min. thickness of insulation	0.80mm	•
	···	Inner covering	PVC TYPE TM1	
		Min. thickness of inner covering	0.40mm	
		Approx. diameter over inner covering	10.6mm	
		Sheath	PVC TYPE ST2(Flame Retardant)	
		Min. thickness of sheath	0.92mm	
		Approx. diameter of completed cable	12.5mm	
		Voltage test on completed cable	3.5/5 kV/mins	
		Max. conductor resistance at 20 degree cent.	3.08 ohm/km	
		Max. insulation resistance at 70 degree cent.	5 Mohm/km	
		Core identification	Red/Black	
		Max. length of cable drum	500 m	
		Approx. weight of completed cable	209 kg/km	

TECHNIÇAL SPECIFICATION SHEET(4) L.GAN-MUKURIMAGU ISLAND No. 2. 1) : Distribution Box: Type 01: Feeder Pillars

2			Reduired Specification	Tenderer's Specifications
-	ğ	Quantity		では、 できない は、 で
2	Mai	Manufacturer	(to be specified)	
က	Model	del	(to be specified)	
4	-	Country of Origin	(to be specified)	
2		General Description	Branch distribution Feeders	
φ	_	Specifications		
		Enclosure	GRP (Glass Reinforced Polyester)	
		IP rating according to IEC 529	IP 65	
		Insulation class according to IEC 232	Class II	
		Canopies	Both top and bottom	
		Door	Plain door equipped with 2 or 3 locks with 8mm triangular centers	
		Color	RAL 7032	
		Other function for enclosure	4 fixing bolts in the back of the enclosure for mounting plate fastening	
			Depth adjustment slides for orion enctosure	
			Plain mounting plates	
			Modular chassis with front cover	
		Incoming side	One(1) Terminal block (4 pole) capable to connect 4 core 70 sq.mm copper cables	,
			Five (5) MCCB(TPN) 100A, 20kA	
			Five (5) ELRs complete with ZCTs.	
			Five (5) shunt trip coil for the MCCBs	
			One (01) set of flexible wiring with 70 sq.mm cables	
			One (01) set of lugs and lug sleeves	
		Outgoing side		
			One (1) terminal blocks capable to connect 120 so mm 04 core cables	
			Four (4) terminal blocks capable to connect 70	
			sq.mm 04 core cables.	
			One (1) set of wiring	
		Size	Maximum 1150mm(height)x 850mm(width)x 300mm(depth)	
		Carrying weight	6 - 200 kg	

TECHNICAL SPECIFICATION SHEET(4) L.GAN-MUKURIMAGU ISLAND

No. 2. 2): Distribution Box: Type 02: 18MCBs

			Required Specification	ins
1	Qu	Quantity	10 Units	
2	Mar	Manufacturer	(to be specified)	
ო	Model	del	(to be specified)	
4	Co	Country of Origin	(to be specified)	
2	Ger	General Description	Branch distribution circuit with MCB	
9	Spe	Specifications		
		Enclosure	GRP (Glass Reinforced Polyester)	
		IP rating according to IEC 529	IP 65	
		Insulation class according to IEC 232	Class II	
		Canopies	Both top and bottom	
		Door	Plain door equipped with 2 or 3 locks with 8mm triangular centers	
		Color	RAL 7032	
		Other function for enclosure	4 fixing bolts in the back of the enclosure for mounting plate fastening	
			Depth adjustment slides for orion enclosure	
			Plain mounting plates	
			Modular chassis with front cover	
		Incoming side	One(1) Terminal block (4 pole) capable to connect 4 core 70 sq.mm copper cables	
			One(1) MCCB(TPN) 63A, 20kA	
		Outgoing side	Eighteen (18) MCBs (SP) 40A, 16kA	
			One (1) insulated Prong Bus 18 CCTs "U" type.	
		-	One (1) insulated neutral link 18 holes (4 holes 16 sq.mm, and others 6 sq.mm)	
			One (1) insulated earth link 18 holes (4 holes 16 sq.mm, and others 6 sq.mm)	
			One(1) set of flexible wiring c/w lugs, lug sleeves and others	
		Size	Maximum 650mm(height)x 500mm(width)x 200mm(depth)	
		Carrying weight	6 - 150 kg	

TECHNICAL SPECIFICATION SHEET(4) L.GAN-MUKURIMAGU ISLAND

No. 2. 3) : Distribution Box: Type 03: 12 MCBs

1 Quantity 2 Manufacturer 3 Model 4 Country of Origin 5 General Description 6 Specifications Enclosure IP rating accord Insulation class Canopies Color Color Other function for Outgoing side Outgoing side Size			
Man Speed Gen Gen Gen Gen Gen Gen Gen Gen Gen Gen		22 Units	
Cou Gen Spe		(to be specified)	
Gen		(to be specified)	
Spe		(to be specified)	
ag de la companya de		Branch distribution circuit with MCB	
Encloor In rational Incomposition Size	suo		
Insular Insula		GRP (Glass Reinforced Polyester)	
Canol Door Other Incom Incom Size	IP rating according to IEC 529	IP 65	
Canop Door Other Outgo	Insulation class according to IEC 232	Class II	
Door Color Incom		Both top and bottom	
Outiga Outiga Size		Plain door equipped with 2 or 3 locks with 8mm triangular centers	
Other Outgo		RAL 7032	
Incom Outgo	Other function for enclosure	4 fixing bolts in the back of the enclosure for mounting plate fastening	
Incom Outgo		Depth adjustment slides for orion enclosure	
Incom Outgo		Plain mounting plates	
Incom Outgo		Modular chassis with front cover	
Outgo	Incoming side	One(1) Terminal block (4 pole) capable to connect 4 core 70 sq.mm copper cables	
Outgo		One(1) MCCB(TPN) 63A, 20kA	
Size	Outgoing side	Twelve (12) MCBs (SP) 40A, 16kA	
Size		One (1) insulated Prong Bus 18 CCTs "U" type.	
Size		One (1) insulated neutral link 18 holes (4 holes 16 sq.mm, and others 6 sq.mm)	
Size		One (1) insulated earth link 18 holes (4 holes 16	
Size		sq.mm, and others 6 sq.mm)	
Size		One(1) set of flexible wiring c/w lugs, lug sleeves and others	
		Maximum 500mm(height)x 400mm(width)x 200mm(depth)	
Сапу	Carrying weight	6 - 120 kg	

TĘCHNIÇAL SPECIFICATION SHEET(4) L.GAN-MUKURIMAGU ISLAND

No. 3. : Accessories

			Required Specification	Tenderer's Specifications
Ψ'	ğ	Quantity	1 Lot	
2		Manufacturer	(to be specified)	
ო		Model	(to be specified)	
4		Country of Origin	(to be specified)	
ιC		General Description	All accessories to install LV Cables and Distribution Box	
9		Specifications		
		PVC glands for 4 core 120 sq.mm copper cables	12	•
		PVC glands for 4 core 35 sq.mm copper cables	18	
		PVC glands for 4 core 25 sq.mm copper cables	22	
		PVC glands for 4 core 16 sq.mm copper cables	12	
		PVC glands for 2 core 6 sq.mm copper cables	470	
		Copper lugs 120 sq.mm with 12mm dia (terminal bolt connecting hole)	12	
		Copper lugs 35 sq.mm with 12mm dia (terminal bolt connecting hole)	09	
		Copper lugs 25 sq.mm with 12mm dia (terminal bolt connecting hole)	192	
		Lug sleeves 120 sq.mm (red color)	4	
		Lug sleeves 120 sq.mm (yellow color)	4	
		Lug sleeves 120 sq.mm (blue color)	4	
		Lug sleeves 120 sq.mm (black color)	4	
		Lug sleeves 35 sq.mm (red color)	15	
		Lug sleeves 35 sq.mm (yellow color)	15	
		Lug sleeves 35 sq.mm (blue color)	15	
		Lug sleeves 35 sq.mm (black color)	15	
		Lug sleeves 25 sq.mm (red color)	48	
		Lug sleeves 25 sq.mm (yellow color)	48	
		Lug sleeves 25 sq.mm (blue color)	48	
		Lug sleeves 25 sq.mm (black color)	48	
		Roll insulation tape (black color)	99	
		Roll scotch tape	4	
		Cable ties 300 mm length	400	
		Cable ties 150 mm length	400	
	_			

TECHNICAL SPECIFICATION SHEET(4) L.GAN-MUKURIMAGU ISLAND

No. 4: Tools

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2	g	Quantity	1 Lot	
က		Manufacturer	(to be specified)	
	Mo	Model	(to be specified)	
4		Country of Origin	(to be specified)	
rc.		General Description	All tools to install LV Cables	
9	-	Specifications		
		Level indicator 12"	2	
		Screwdriver 12" (-)	2	
)	2	
		Screwdriver 6" (-)		
		Screwdriver 6" (+)	2	
		Philips voltage neon light testers 6"		
		Side cutters normal size		
		Cable cutters medium size		
		Hacksaw frames		
		Hacksaw blades (high speed)	12	
		NT cutters		
		NT cutter blade packets	4	
		Adjustable wrech 6" adjustable range		
		Adjustable wrech 8" adjustable range		
		Elankee set 24 piece set	2	
		Hammers 01 lb		
		Hammers 02 lb	2	
				-
		Alignment indicator with 3m rope (Olanbu) metal	2	
		Measuring wheel 100m		
		Measuring wheel 10m		
		Empty PVC big size tool box (200mm height, 600mm length, 200mm depth at least)	4	

TECHNICAL SPECIFICATION SHEET(4) L.GAN-MUKURIMAGU ISLAND

No. 5.: Installation and commission works

			Reguired Specification Tenderer's Specifications
-	Quantity	htity	1 Lot
2	Manı	Manufacturer	(to be specified)
m	Model	<u> </u>	(to be specified)
4	Cour	Country of Origin	(to be specified)
1			All the items and workmanshi required to
2	Gent	General Description	do the installation and commissioning work
9	Spec	Specifications	
	6.1	6.1 Brass screws 2" x 12no.	164
	6.2	Self tap screws 2" x 12 no.	164
	6.3	6.3 Wall plus 06 mm dia, 50 mm length	200
		Metal type round saw set which shall include 25 mm, 30 mm, 35	
	6.4		
		mm, 50 mm, 75mm, cutting dies c/w other accessories.	2
	6.5	Cable ties 200 mm length	480
	6.6	6.6 Unit water Pump (petrol used as fuel) 50 mm pipe dia	
		Type: 4 stroke overhead valve single cylinder, 25 degree inclined	
		Total displacement 118 cm ³ (7.2 cu.in.)	
		.⊑	
		Max Horse power 2.9 KW (4.0 HP) / 3600 min ⁻¹	
		Max. Torque 7.5 N.M (0.75 kg.m, 5.4 lbf.ft) 2500 min ⁻¹ r.p.m	
		Compression Ratio : 7.5:1, 8.5:1	
		Fuel consumtion: 313 g/kwh (230g/HPh,0.51 lb/Hph)	
		Colling system : Forced air	
		Ignition system : Transistorized magento ignition	
		Ignition timing: 25 degree B.T.D.C fixed	
		Spark plug : BP6 ES (NGK)	
		Carburetor : Horizontal type butterfly valve	
		Air cleaner : Dual element type	
		Governor: Centrifugal mechanical governor	
		Lubricating system: Splash	
		Starting system: Recoil starter	
		Stopping system: Ignition primary circuit ground	
	-		

TECHNICAL SPECIFICATION SHEET(4) L.GAN-MUKURIMAGU ISLAND

No. 5.: Installation and commission works

			Required Specification 🛸 Tenderers Specifications	ations
		Fuel used : Regular gasoline (86 pump octane : Unleaded		
<u> </u>		Fule tank capacity : 2.5 litres		-
l	6.7	Met hose, PVC rigid Spiral 2"	20m	
<u> </u>	6.8	6.8 Met hose, PVC discharged 2" (Superhose)	, 70m	<u> </u>
<u> </u>	6.9	6.9 Foot valve	2	
9	3.10	6.10 Hose clip	8	
9	6.11	Ring hose Clip	8	
9	6.12	Tool	01 unit	
100	3.13	6.13 Petrol drums for the water with petrols 200 litrs drums	2	
}		All other materials required to complete the installation of the		
9	3.14	6.14 DBs, connection of the incoming, outgoing and all consumer		-
		cables to the DBs.		
19	3,15	6.15 Cement bags (50kg) for DB	89	
9	3.16	6.16 Install all the DBs on the concrete frames	32	
9	6.17	Install all the PVC glands to the DBs	01 lot	
9	6.18	Connect all the main cables to the DBs terminals	01 lot	
ļ	6.2	Connect all the consumer cables to the DBs	01 lot	
ဖ	3.20	6.20 Label all the consumers and main cables of the DBs	01 lot	
<u> </u>		Connect all the main cables to the exisiting switchboard		
		and new feeder pillars which will be installed inside the P/H		
	6.2	6.2 control room or the new switchboard and the new feeder	01 lot	
	<u>-</u>	pillars. If it is a switchboard the installation of the		
		switchboard will be completed by the client.		
!		Connect all the consumer cables to the exisitng consumer KWH		
	6.2		01 lot	
į		meter boards and new KWH meter boards.		
	6.2	Commission the distribution network		
	6.2	Commission all the consumers of the island to the new distribution network	01 lot	
1	6.3	Seal the spare glands of the DBs with silicons	01 lot	
1	6.3	Label all the DB from the external side of the front door.	01 lot	
<u> </u>	6.3	Hand over the distribution network to the client	01 lot	
	1			

TECHNICAL SPECIFICATION SHEET(5) L.MAAVAH ISLAND

No. 1. 5): Main Distribution Cables 04 core 25 sq.mm

			Required Specification	Tenderer's Specifications
1	g	Quantity	3750 m	
2	Ma	Manufacturer	(to be specified)	
3	<u>8</u>	Model	(to be specified)	
4	ව	Country of Origin	(to be specified)	
5	Ge	General Description	Underground Cables for Power Distribution	
9	Sp	Specifications		
		Applicable Standard	BS 6004	
		Voltage Class	600/1000V	
		Number of cores	4	
		Conductor	Plain annealed copper wire	
		Nominal cross sectional area	25 sq.mm	
		No. / diameter of wire	7/2.14 mm	
		Shape of conductor	90 degree centigrade sector	
		Insulation Material	XLPE	
		Min. thickness of insulation	0.98mm	
		Inner covering	PVC TYPE TM1	
		Min. thickness of inner covering	0.60mm	
		Approx. diameter over inner covering	20.05mm	
		Sheath	PVC TYPE ST2(Flame Retardant)	
		Min. thickness of sheath	1.24mm	
		Approx. diameter of completed cable	27.8mm	
		Voltage test on completed cable	3.5/5 kV/mins	
		Max. conductor resistance at 20 degree cent.	0.727 ohm/km	
		Max. insulation resistance at 70 degree cent.	5 Mohm/km	
		Core identification	Red, Yellow, Blue, Black	
		Max. length of cable drum	500 m	
		Approx. weight of completed cable	2026 kg/km	
				100.
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TECHNICAL SPECIFICATION SHEET(5) L.MAAVAH ISLAND

No. 1. 6): Branch Cables 04 core 16 sq.mm

			Required Specification	Tenderer's Specifications
τ-	ğ	Quantity	300 m	
7		Manufacturer	(to be specified)	
3		Model	(to be specified)	
4		Country of Origin	(to be specified)	
.13		General Description	Underground Cables for Power Distribution	
ဖ		Specifications		
		Applicable Standard	BS 6004	
		Voltage Class	600/1000V	
		Number of cores	4	
		Conductor	Plain annealed copper wire	
		Nominal cross sectional area	16 sq.mm	
		No. / diameter of wire	7/1.70 mm	
		Shape of conductor	Circular compact	·
		Insulation Material	XLPE	
		Min. thickness of insulation	0.80mm	
		Inner covering	PVC TYPE TM1	
		Min. thickness of inner covering	0.90mm	
		Approx. diameter over inner covering	21.8mm	
		Sheath	PVC TYPE ST2(Flame Retardant)	
		Min. thickness of sheath	1.16mm	
		Approx. diameter of completed cable	26.3mm	
		Voltage test on completed cable	3.5/5 kV/mins	
		Max. conductor resistance at 20 degree cent.	1.15 ohm/km	
		Max. insulation resistance at 70 degree cent.	5 Mohm/km	
		Core identification	Red, Yellow, Blue, Black	
		Max. length of cable drum	500 m	
		Approx. weight of completed cable	1545 kg/km	The state of the s
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TECHNICAL SPECIFICATION SHEET(5) L.MAAVAH ISLAND

No. 1. 7): Brach Cables 02 core 06 sq.mm

			Required Specification	Tenderer's Specifications
7	ğ	Quantity	12300 m	
2	Ma	Manufacturer	(to be specified)	
က	Mo	Model	(to be specified)	
4		Country of Origin	(to be specified)	
ည	G	General Description	Underground Cables for Power Distribution	
9	Sp	Specifications		
		Applicable Standard	BS 6004	
		Voltage Class	600/1000V	0 0 0 0 0
		Number of cores	2	
		Conductor	Plain annealed copper wire	
		Nominal cross sectional area	06 sq.mm	
		No. / diameter of wire	7/1.04 mm	
		Shape of conductor	Round	
		Insulation Material	XLPE	
		Min. thickness of insulation	0.80mm	
		Inner covering	PVC TYPE TM1	
		Min. thickness of inner covering	0.40mm	
		Approx. diameter over inner covering	10.6тт	
		Sheath	PVC TYPE ST2(Flame Retardant)	
		Min. thickness of sheath	0.92mm	
		Approx. diameter of completed cable	12.5mm	
		Voltage test on completed cable	3.5/5 kV/mins	
		Max. conductor resistance at 20 degree cent.	3.08 ohm/km	
		Max. insulation resistance at 70 degree cent.	5 Mohm/km	
		Core identification	Red/Black	
		Max. length of cable drum	500 m	
		Approx. weight of completed cable	209 kg/km	
	_			

TECHNICAL SPECIFICATION SHEET(5) L.IMAAVAH ISLAND

No. 2. 1) : Distribution Box: Type 01: Feeder Pillars

		Required Specification The Tenderer's Specifications
-	Quantity	01 Unit
8	Manufacturer	(to be specified)
က	Model	(to be specified)
4	Country of Origin	(to be specified)
5	General Description	Branch distribution Feeders
ဖ	Specifications	
	Enclosure	GRP (Glass Reinforced Polyester)
	ccording to IEC 529	IP 65
	Insulation class according to IEC 232	Class II
	Canopies	Both top and bottom
	Доог	Plain door equipped with 2 or 3 locks with 8mm triangular centers
	Color	RAL 7032
	Other function for enclosure	4 fixing bolts in the back of the enclosure for mounting plate fastening
		Depth adjustment slides for orion enclosure
		Plain mounting plates
		Modular chassis with front cover
	Incoming side	One(1) Terminal block (4 pole) capable to connect 4 core 70 sq.mm copper cables
		Five (5) MCCB(TPN) 100A, 20kA
		Five (5) ELRs complete with ZCTs.
		Five (5) shunt trip coil for the MCCBs
		One (01) set of flexible wiring with 70 sq.mm cables
		One (01) set of lugs and lug sleeves
	Outgoing side	
		One (1) terminal blocks capable to connect 120 so mm 04 core cables.
		Four (4) terminal blocks capable to connect 70 sq.mm 04 core cables.
		One (1) set of wiring
	Size	Maximum 1150mm(height)x 850mm(width)x 300mm(depth)
	Carrying weight	6 - 200 kg

TECHNICAL SPECIFICATION SHEET(5) L.MAAVAH ISLAND

No. 2. 2): Distribution Box: Type 02: 18MCBs

			Required Specification	Tenderer's Specifications
7	ð	Quantity	13 Units	
7	_	Manufacturer	(to be specified)	
က	Model	idel	(to be specified)	
4	<u></u> ડે	Country of Origin	(to be specified)	
လ	_	General Description	Branch distribution circuit with MCB	
ဖ		Specifications		
		Enclosure	GRP (Glass Reinforced Polyester)	
		IP rating according to IEC 529	IP 65	
		Insulation class according to IEC 232	Class II	
		Canopies	Both top and bottom	
		Door	Plain door equipped with 2 or 3 locks with 8mm triangular centers	
		Color	RAL 7032	
		Other function for enclosure	4 fixing bolts in the back of the enclosure for mounting plate fastening	
			Depth adjustment slides for orion enclosure	
			Plain mounting plates	
			Modular chassis with front cover	
	<u></u> -	Incoming side	One(1) Terminal block (4 pole) capable to connect 4 core 70 sq.mm copper cables	
			One(1) MCCB(TPN) 63A, 20kA	
_	1.	Outgoing side	Eighteen (18) MCBs (SP) 40A, 16kA	
			One (1) insulated Prong Bus 18 CCTs "U" type.	
			One (1) insulated neutral link 18 holes (4 holes 16 sq.mm, and others 6 sq.mm)	
			One (1) insulated earth link 18 holes (4 holes 16 sq.mm, and others 6 sq.mm)	
		3	One(1) set of flexible wiring c/w lugs, lug sleeves and others	
		Size	Maximum 650mm(height)x 500mm(width)x 200mm(depth)	
\dashv	\dashv	Carrying weight	6 - 150 kg	

TECHNICAL SPECIFICATION SHEET(5) L.MAAVAH ISLAND

No. 2. 3): Distribution Box: Type 03: 12 MCBs

		Required Specification Tenderer's Specifications
-	Quantity	
8	Manufacturer	(to be specified)
ო	Model	(to be specified)
4	Country of Origin	(to be specified)
2	General Description	Branch distribution circuit with MCB
9	Specifications	
	Enclosure	GRP (Glass Reinforced Polyester)
	IP rating according to IEC 529	9 di
	Insulation class according to IEC 232	Class II
	Canopies	Both top and bottom
	Door	Plain door equipped with 2 or 3 locks with 8mm triangular centers
	Color	RAL 7032
	Other function for enclosure	4 fixing bolts in the back of the enclosure for mounting plate fastening
		Depth adjustment slides for orion enclosure
		Plain mounting plates
		Modular chassis with front cover
	Incoming side	One(1) Terminal block (4 pole) capable to connect 4 core 70 sq.mm copper cables
		One(1) MCCB(TPN) 63A, 20kA
	Outgoing side	Twelve (12) MCBs (SP) 40A, 16kA
		One (1) insulated Prong Bus 18 CCTs "U" type.
		One (1) insulated neutral link 18 holes (4 holes 16 sq.mm, and others 6 sq.mm)
		One (1) insulated earth link 18 holes (4 holes 16 sq.mm, and others 6 sq.mm)
		One(1) set of flexible wiring c/w lugs, lug sleeves and others
	Size	Maximum 500mm(height)x 400mm(width)x 200mm(depth)
	Carrying weight	6 - 120 kg

TECHNICAL SPECIFICATION SHEET(5) L.MAAVAH ISLAND

No. 3. : Accessories

		Required Specification	Tenderers Specifications
۲-	Quantity	1 Lot	
2	Manufacturer	(to be specified)	
3	Model	(to be specified)	
4	y of Origin	(to be specified)	
5	uo	All accessories to install LV Cables and Distribution Box	
9	Specifications		
	PVC glands for 4 core 25 sq.mm copper cables	65	
	PVC glands for 4 core 16 sq.mm copper cables	12	
	PVC glands for 2 core 6 sq.mm copper cables	364	
	Copper lugs 25 sq.mm with 12mm dia (terminal bolt connecting hole)	186	
	Lug sleeves 25 sq.mm (red color)	54	
	Lug sleeves 25 sq.mm (yellow color)	54	
	Lug sleeves 25 sq.mm (blue color)	54	
	Lug sleeves 25 sq.mm (black color)	54	The control of the co
	Roll insulation tape (black color)	100	
	Roil scotch tape	4	
	Cable ties 300 mm length	400	
	Cable ties 150 mm length	400	

TECHNICAL SPECIFICATION SHEET(5) L.MAAVAH ISLAND

No.4. : Tools

		Reguired Specification	scifications
-	Quantity	1 Lot	
2	Manufacturer	(to be specified)	
က	Model	(to be specified)	
4	Country of Origin	(to be specified)	
5	General Description	All tools to install LV Cables	
ဖ	Specifications		
	Level indicator 12"	2	
	Screwdriver 12" (-)	2.5	
	(2	
	Screwdriver 6" (-)	2	İ
_	Screwdriver 6" (+)	2	
	Philips voltage neon light testers 6"	2	
		7	
	Side cutters normal size	7	
	Cable cutters medium size	2	
	Hacksaw frames	2	
	Hacksaw blades (high speed)	12	
	NT cutters	2	
	NT cutter blade packets	4	
	Adjustable wrech 6" adjustable range	2	****
	Adjustable wrech 8" adjustable range		
	Elankee set 24 piece set	2	
	Hammers 01 lb	2	
	Hammers 02 lb	2	
		1	
	Alignment indicator with 3m rope (Olanbu) metal type	2	
	Measuring wheel 100m		
	Measuring wheel 10m		
	Empty PVC big size tool box (200mm height, 600mm length, 200mm depth at least)		
	3		

TECHNICAL SPECIFICATION SHEET(5) L.MAAVAH ISLAND

No. 5.: Installation and commission works

腦			Required Specification Tenderer's Specifications	tions
_	Qua	Quantity	1 Lot	
7		Manufacturer	(to be specified)	
က	Model	lei	(to be specified)	
4		Country of Origin	(to be specified)	
L			All the items and workmanshi	
Ω.		General Description	required to do the installation and	
\(c)	\dashv	Specifications		
)	6.1 Brass screws 2" x 12no	135	
	6.2	2 Self tap screws 2" x 12 no.	135	
	9	6.3 Wall plus 06 mm dia, 50 mm length	260	
		Metal type round saw set which shall include 25 mm, 30		i
	<u>,</u>	6.4 mm, 35 mm, 50 mm, 75mm, cutting dies c/w other		
		accessories.	2	
	6.5	5 Cable ties 200 mm length	300	
	9.0	6.6 Unit water Pump (petrol used as fuel) 50 mm pipe dia	2	
		Type: 4 stroke overhead valve single cylinder, 25 degree		
		Total displacement 118 cm ³ (7.2 cu.in.)		
		Bore and stroke 60 x 42 mm (2.4 x 1.7 in)		
		Max Horse power 2.9 KW (4.0 HP) / 3600 min-1		
		Max. Torque 7.5 N.M (0.75 kg.m, 5.4 lbf.ft) 2500 min ⁻¹		
		Compression Ratio : 7.5:1, 8.5:1		
		Fuel consumtion: 313 g/kwh (230g/HPh,0.51 lb/Hph)	The state of the s	
		Colling system : Forced air		
		Ignition system : Transistorized magento ignition		
		Ignition timing: 25 degree B.T.D.C fixed		
		Spark plug : BP6 ES (NGK)		
		Carburetor: Horizontal type butterfly valve		
		Air cleaner : Dual element type		
		Governor : Centrifugal mechanical governor		
	ļ	Lubricating system : Splash		
		Oil capacity : 0.6 litres		
		Starting system: Recoil starter		,

TECHNICAL SPECIFICATION SHEET(5) L.IMAAVAH ISLAND

No. 5.: Installation and commission works

			Reguired Specification	Tenderers Specifications
		Stopping system: Ignition primary circuit ground		
<u> </u>		Fuel used : Regular gasoline (86 pump octane :		
!		Fule tank capacity : 2.5 litres		
<u> </u>	6.7	Met hose, PVC rigid Spiral 2"	20m	
<u>L.</u> .	6.8	6.8 Met hose, PVC discharged 2" (Superhose)	70m	
<u> </u>	6.9	6.9 Foot valve	2	
1 9	6.10	6.10 Hose clip	8	
<u>, </u>	6.11	6.11 Ring hose Clip	8	
<u>, </u>	6.12	6.12 Tool	01 unit	
<u> </u>	6.13	6.13 Petrol drums for the water with petrols 200 litrs drums	2	
		All other materials required to complete the installation of		
<u> </u>	6.14	6.14 the DBs, connection of the incoming, outgoing and all		
		consumer cables to the DBs.	1	
<u> </u>	6.15	Cement bags (50kg) for DB	72	
	6.16	6.16 Install all the DBs on the concrete frames	20	
100	6.17	6.17 Install all the PVC glands to the DBs	01 lot	
10	6.18	6.18 Connect all the main cables to the DBs terminals	01 lot	
<u>, </u>	6.19	6.19 Connect all the consumer cables to the DBs	01 lot	
	6.20	6.20 Label all the consumers and main cables of the DBs	01 lot	
<u>; </u>		Connect all the main cables to the exisiting		
		switchboard and new feeder pillars which will be		
	0 0 2	control room or the	01 lot	
	2.2	~	<u>.</u>	
		switchboard the installation of the switchboard will be		
		completed by the client.		
		Connect all the consumer cables to the exisiting consumer		
<u> </u>	6.22		01 lot	
		KWH meter boards and new KWH meter boards.		The state of the s
	6.23	Commission the distribution network	01 lot	
	6.24	Commission all the consumers of the island to the new distribution network	01 lot	
	6.25	6.25 Seal the spare glands of the DBs with silicons	01 lot	
<u> </u>	6.26	6.26 Label all the DB from the external side of the front door.	01 lot	
	6.27	6.27 Hand over the distribution network to the client	01 lot	

Schedule VI

Letterhead of the Manufacturer

Supply Guarantee Certificate of the Goods from Manufacturer

Tender for:	The Project for Rehabilitation of Power Distr	ribution System in Laamu Atoll
To:	Japan International Cooperation System (JIC	S) Liaison Office in Maldives
Country) and constitute an country) and lawful attorn	Name of Manufacturer), a manufacturer duly d having its principal office of business at (a appoint (Name of Tenderer), a company du having its principal office of business at (A ey-in-fact to do the following sets and deeds: sent and bind us in the tendering for the capt	Address of Manufacturer), hereby make, ally organized under the laws of (Name of Address of Tenderer), to be our true and ioned Project for supply of the following
equipment p thereto, if an	roposed in the tender which we manufacture	or produce and provide services related
	Name of the Goods	<u>Notes</u>
	reby also guarantee to (Name of Tenderer) that ance service of the equipment at cost basis eriod.	
IN TE	STIMONY WHEREOF, we have hereunto 5.	signed this document this **th day of
		(Date)
		(Signature)
		(Name of Signer)
		(Title, Section, Department)
		(For and on behalf of)

Schedule VII

Letterhead of the Tenderer

Certificate of Origin of the Goods

Tender for: The Project for Rehabilitation of Power Distribution System in Laamu Atoll

To:	. Japan Internation	al Cooperation System (ЛСS) Liaison (Office in Maldives
offic	e of business at (Address), duly organized under the laws of Jo of Tenderer), hereby certify that the co l have their origin mentioned below.	
	Item No.	Name of the Goods	Country of Origin
		,	
		(Date)	
		(Signature	
		(Name of S	Signer)
			tion, Department)
		(For and o	n behalf of)

Schedule VIII: Company Information

Name of Tenderer	:	
Foundation Year	:	
Number of Employes	:	

A. FINANCIAL INFORMATION (in US\$ equivalent)

Year	2002	2003	2004
1. Total assets			
2. Current assets			
3. Total flabilities		··· <u>·</u>	
4. Current liabilities			
5. Profits before taxes			
6. Profits after taxes			
7. Annual Turnover			
Summarize actual assets and lial	ollittes in US dollar equivalent (at ti	ne rates of exchange current at the en	of each year) for the previous "

Summarize actual assets and liabilities in US dollar equivalent (at the rates of exchange current at the end of each year) for the previous three years

B. CREDIT LINE

Source of credit line	Amount (US \$)
1. Cash flow - Company	
2. Bank Of Maldives	
The Hong Kong & Shanghai Banking Corp.	
4. Suppliers Credit	

Specify proposed source of credit line to meet the cash flow demand of the Project.

Attach audited financial statements for the last three years (for bidder or each partner of a joint venture).

Firms owned by Individuals, and partnerships, may submit their balance sheets certified by a registered accountant, and supported by copies of tax returns, if audits are not required by the laws of their countries of registration.

<Office in Japan if there is>

Name :

Address :

Tel :

Fax :

Contact Person :

<Office in Maldives>
 Name :
 Address :
 Tel :
 Fax :
 Contact Person :

^{*}The tenderer is required to provide JICS with information more in detail upon request of JICS.

(Date)	
(Signature)	
(Name of Signer)	
(Title, Section, Department)	
For and on behalf of	

Schedule IX

List of Similar Work Experience of the Tenderer

(or his nominated subcontractor)

Description of the Work	Length of Transmission or Distribution Lines			
Descript	Voltage Level			
	Contract Period			
	Source of Fund			
	Contract Amount (in US\$)		·	
	Client		,	
	Name of the Project			

The Tenderer or his nominated sub-contractor shall have similar experiences of the completed electrical works of which the total contract price shall not be less than Rive hundred thousand US dollars (USS500,000), in either the Recipient country or other island countries, during the last ten (10) years, regardless of prime contracting or subcontracting.

At the tender, the Tenderer shall submit a photocopy of completion certificates of the said completed electrical works issued by the client of the respective contract.

(Date)	(Name of Signer)	(Title, Section, Department)	(For and on behalf of)
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Schedule X

Curriculum Vitae of the Personnel

(Assigned in the Personnel Dispatch Schedule)

1.	Office name and address:
2.	Name of resident staff:
3.	Nationality of resident staff:
4.	Date of birth:
5.	Education:
6.	Qualifications:
7.	Languages and degree of proficiency: (Grade degree of proficiency as A; Excellent, B; Good C; Weak)
8.	Relevant projects undertaken: (List on a separate sheet for project's name, location, years, positions held, exact duties and duration rendered on each project)
9.	Other information (if any)
	· •
	(Data)
	(Date) (Signature)
	(Name of Signer)
	(Title, Section, Department)
	(For and on behalf of)

Form-3

Name of the issuing Bank Branch Name Its address

> L/G No.: Date:

JAPAN INTERNATIONAL COOPERATION SYSTEM SHINJUKU EAST BLDG., 10-5, TOMIHISA-CHO, SHINJUKU-KU, TOKYO 162-0067, JAPAN

Letter of Guarantee No. (number)
(for Performance Bond)

Dear Sirs:

We hereby guarantee to pay you up to an aggregate amount of (US\$ amount in figures) of (US\$ amount in words) for the account of (Supplier's Name), being Performance Bond as per (Contract No.) for the supply of (Name of the Goods) UNDER JAPAN'S GRANT AID 2004 IN RESPONSE TO THE DAMAGES CAUSED BY THE GREAT EARTHQUAKE OFF THE COAST OF SUMATRA, THE REPUBLIC OF INDONESIA, AND BY THE INDIAN OCEAN TSUNAMI DISASTER FOR THE REPUBLIC OF MALDIVES subject to the terms and conditions stipulated below:

This Guarantee is unconditionally payable against the presentation of

- 1. <u>the beneficiary's receipt</u> accompanied by
- 2. the original Letter of Guarantee and
- 3. <u>beneficiary's first written demand</u> supported by <u>the beneficiary's written statement</u> stating that the applicant is in breach of his obligation under the Contract.

This guarantee expires on [date (Estimated Arrival Date + 60DAYS)].

All claims hereunder must be submitted to us not later than the above-mentioned expiry date, after which date this Guarantee automatically becomes null and void.

This guarantee is subject to ICC Uniform Rules for Demand Guarantees (ICC Publication No.458).

All bank charges are for account of applicant.

Yours faithfully,

(the name of the issuing bank)
(Authorized signature)
(name in block letter)

Please note

This Guarantee must be returned to us for cancellation as soon as it expires.

Certificate of Receipt

To: Japan International Cooperation System (JICS)

This is to confirm and certify that the Goods procured by Japan International Cooperation System (JICS) on behalf of the Government of the Republic of Maldives under Japan Grant Aid in response to the damages caused by the great earthquake off the coast of Sumatra, the Republic of Indonesia, and by the Indian Ocean Tsunami Disaster have been delivered, and the undersigned received the Goods in proper condition, without delay or any other problem.

Contract No.

Name of the Supplier

Name of the Goods

Name of Consignee and Consignee's designated site

Quantity (units)

Date of Receipt of the Goods at delivery Site

Date: (Day, Month, Year)

(Signature) (Person in Charge) (Name of Consignee)

*Shall be stamped.