

SMC TOWER

33 Banani C/A, Dhaka-1213, Bangladesh G. P. O. Box No. 2983, Tel: 9821074-80 Fax: 880-2-9821581, 9821957 E-mail: smc.corp@smc-bd.org Web: www.smc-bd.org

December 19, 2016

Managing Director Cross World Power Ltd, House# NE (0) 06, Road# 92, Gulshan-2, Dkaka-1212

Ref.: Your sealed Tender dated September 26, 2016 for subject work and your revised offer dated December 7, 2016

Sub: Letter of acceptance for Supply , Installation , Testing and Commissioning of one 500 KVA (Prime) Diesel Generator and one 1250 Amp synchronizing panel with ATS for the project of expansion of 8^{th} , 9^{th} & 10^{th} lines of ORS production facility at SMC-EL's premises in Bhaluka , Mymensingh in one package .

Dear Sir:

Reference to the above, we are glad to inform you that the SMC and SMC Enterprise Limited (SMC-EL) Management have accepted your bid for subject work, provided that you will fulfil all terms and conditions of tender document provided by SMC Enterprise Limited (SMC EL), and the terms and conditions of your technical offer accepted by SMC EL, your priced financial offer, and revised offer, which were signed, sealed and submitted by you to SMC Enterprise Limited and you will supply, install, test and commission of one 600 KVA (prime) diesel generator at GBP 41,000.00 as per Negotiation Dated November 27, 2016.

The name of the subject work in contract has been revised as Supply, Installation, Testing and Commissioning of one 600 KVA (Prime) Diesel Generator and one 1250 Amp synchronizing panel with ATS for the project of expansion of 8th to 12th lines of ORS production facility at SMC-EL's premises in Bhaluka, Mymensingh in one package.

Capacity of bus bar of synchronizing & ATS panel will be in compliance with 1250 KVA Substation at own cost of you.

The contract price is BDT 9,272,459.00 (Taka ninety two lac seventy two thousand four hundred fifty nine only) considering 1.00 GBP= BDT 96.30. GBP 41,000.00 will be paid by SMC Enterprise Limited through letter of credit for foreign currency part Chittagong basis for 600 KVA (prime) diesel generator and BDT 5,324,159.00 for local currency part. Given time is four calendar months reckoned from the date of issuance of this letter of acceptance.

Insurance (if required), Custom Duty, ATV (Advance Trade VAT, if any), Clearing & Forwarding expenses, Chittagong port related all expenses and all government bodies related expenses, expenses of transporting to site at Bhaluka shall be borne by SMC Enterprise Limited and it will open letter of credit in favor of Allam Marine Ltd., England, UK (principal of you) for GBP 41,000.00 on C&F Chittagong basis.

Page 1 of 2

(ma)



SMC TOWER

33 Banani C/A, Dhaka-1213, Bangladesh G. P. O. Box No. 2983, Tel: 9821074-80 Fax: 880-2-9821581, 9821957 E-mail: smc.corp@smc-bd.org Web: www.smc-bd.ora

We invite you to sign the Contract within one week of issuing this letter of acceptance and submit Proforma Invoice of 600 KVA diesel generator.

You are requested to submit performance bank guarantee of 10% of contract price (with initial validity fifteen months extendable up to one year after successful completion and handover of the subject work) before signing the contract agreement as early as possible.

Unless and until a formal agreement is prepared and executed, this Bid together with this letter of acceptance thereof shall constitute a binding contract between SMC EL and you as per clause # 6 of Tender Form of Tender Document.

Thank you.

For SMC Enterprise Limited (SMC EL)

(Masum Ahmed Jaigirdar)

GM-Engineering

SMC

SCHEDULE OF ITEMS OF WORK AND BILL OF QUANTITIES

FOR

SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF ONE 500 KVA (PRIME) DIESEL GENERATOR AND ONE 1250 A SYNCHRONIZING PANEL FOR THE PROJECT OF EXPANSION OF 8TH, 9TH & 10TH LINES OF ORS PRODUCTION FACILITY AT SMC-EL'S PREMISES IN BHALUKA, MYMENSINGH IN ONE PACKAGE

The contractor must fulfill the followings:

1A. The bidder shall quote rates in BDT both in figures and words. These rates shall include all cost of materials, plants, equipment, labours, fuel, transportation etc. for all temporary and permanent works, overhead and profit and training as laid down in the tender document and shall be inclusive of all duties, taxes, charges, VAT etc. as imposed by the Government.

1.B The 500 KVA (PRIME) DIESEL GENERATOR set shall be inspected for Factory Acceptance Test (FAT) by the personnel of the Owner. Factory Acceptance Test (FAT)/ Performance test shall be conducted at the assembler's Factory abroad and all arrangements for FAT shall be made by the Contractor. No additional payment shall be made to the Contractor on nccount of FAT. The cost of Air Tickets both ways, Hotel Accommodation, local transport, and food for the personnel of the Owner who will be witnessing the FAT shall be borne by the Owner. The Contractor shall provide necessary support and assistance for invitation and processing of Visas etc for the SMC EL personnel for FAT. The cost related to only performance test, if any, shall be borne by the Contractor and shall be include in rates of SCHEDULE OF ITEMS OF WORK AND BILL OF QUANTITIES. An invitation letter or equivalent by the Contractor, within short time of opening irrevocable letter of credit by the owner or 2 months ahead of date of performance test/FAT, whichever is earlier, in writing, must be sent to the owner so that owner can do hotel booking, apply for Visa and do other formalities. During the Factory Acceptance Test (FAT) if any deviation found from the accepted specification of the 500 KVA (PRIME) DIESEL GENERATORS, the assembler shall rectify the identified deviation(s) found during FAT. After final clearance from the Owner, shipment will be made.

1C. 1250 ampere synchronization part: Subject to successful commissioning, testing and synchronizing existing one 200 KVA (prime) diesel generator and with other offered 500 KVA (prime) diesel generators outputs.

1D. Auto Transfer Switch (ATS) part: 1250 Ampere capacity TP with 2x1 No 1250A, 65KA, TP motorized ACB with fixed type housing/ chassis (one ACB will deliver output of synchronization; the other will deliver output of Transformer. If one ACB is ON the other muster be OFF through electrical and mechanical interlock i.e. double layer of safety), with delay time necessary accessories whatsoever shall be required for successful commissioning.

- 1F. Internet view / monitoring with free software for lifetime must be available from Deep Sea, 11E. and Broiltech, India.
- All Circuit Breaker (ACB/MCCB/MCB): ABB only from sole agent/ authorized distributor with papers of authentication (if asked for by the Owner) and as per accepted and approved by the Owner.
- All Volt meter and Ampere meter must be digital and of high quality.

4 The contractor shall take prior measurement before bringing cable to site and the owner shall not pay for wastage cable.

5. Contractor must submit Single line Diagram (SLD), shop drawings of all type of distribution boards and panels, substation equipment layout, substation floor layout with floor drain etc whatever asked for by the Owner and must take approval from Owner.

6. BOQ quantity may increase or decrease or omitted.

Before procuring cable, the contractor must take accurate field measurement. Cable connecting must not have joint and contractor will bear cost of wastage cable. Wastage cost hould be distributed in to all rates.

All ACB are (TP motorized) shall have Fixed Type chassis/ housing and adjustable Thermal verload and adjustable magnetic short-circuit. All ACB must have repairable motor, shunt pening, shunt closing, under voltage release, aux contact, gear motor, electronic time delay, nechanical interlock, handle with store -energy spring operating gear motor mechanically anually. ON/OFF ACB and solid state microprocessor controlled Under Voltage Release, uxiliaries, accessories etc including whatsoever may be required to complete the subject job in I respect. Brand: ABB from sole agent/ authorized distributor.

Cable Lug, PIB Tape, cable tape, cable glands, flexible pipes etc shall be done by the intractor's cost.

ble between Synchronization Panel and ATS: 3x4x1C-120rm XLPE + 1x2x1C-120rm XLPE

50A ATS inputs cables:

From AVR by-pass: 3x4x1C-120rm XLPE + 1x2x1C-120rm XLPE

50A ATS output cables:

T Panel: 3x4x1C-120rm XLPE + 1x2x1C-120rm XLPE

500 KVA Generator output cable: 3x4x1C-120rm XLPE + 1x2x1C-120rm XLPE

200 KVA Generator output cable: 3x2x1C-50rm XLPE + 1C-50rm XLPE

bidder MUST ensure the followings layers of safety:

lynchronization part: The synchronization enabled controllers (each with a PLC and a lay) must communicate within themselves and will supply output taking connected brized ACB/ MCCB in ON position to TP + N Busbar common to synchronized outputs of

Page 3 of 12









all penerators. The synchronization enabled controllers (with PLC with a display) must not taking connected motorized ACB/MCCB in ON position if voltages and currents are identical to synchronized.

Thus synchronization enabled controllers (with PLC with a display) are electrically bound to invoke respective connected motorized ACB/MCCB in ON position—only when outputs are synchronized. Under no circumstances, non-synchronized outputs shall be delivered to common TP + N Busbar.

- 2. ATS Part: Three sets of TP + N Busbar (where one set may be the above common TP + N Busbar that collects synchronized outputs) shall exist in auto transfer switch part. One pair of motorized ACB shall be in auto transfer switch part. One ACB will take power (output) connected to TP+N Busbar from Main power supply. The other ACB will be connected to the TP+N busbars that receives synchronized outputs of generators. This one pair of ACB in auto transfer switch part must be electrically interlocked by necessary accessories and mechanically interlocked by necessary accessories confirming that if one ACB is in ON position the other ACB must be in OFF position. One of this pair of motorized ACB shall supply power to output TP+ N busbars of ATS Part.
- 3. All cables bearing AC signal must have mini primary and secondary coils with laminated iron core (mini isolation transformer or surge protector) so that in case of over voltage primary coil will be burned saving synchronization enabled controllers (each with a PLC and a display) from damage at the contractor's cost.
- 4. At all DC sources must have about 4 to 6A DP MCB (ABB or approved equivalent) to protect synchronization enabled controllers (each with a PLC and a display) from damage at the contractor's cost.

The bidder MUST quote rates in following tables:

Option-1-Group-A, B, C:

roup-A: Supply, installation, testing and commissioning 500 KVA (prime) diesels enerator preferably from ready stock or pipeline

Description of Item of Work	Unit	Quantity	Currency	Rate	Amount
Supply, installation, testing and commissioning 500 KVA (prime) diesel Generator set with control panel with built-in PLC and display (without canopy and without ATS) with adequate rating one MCCB for each genset. Sufficient number of vibration	Set	1	BDT	CASBA COPONICO COPONI	Lato Course

Description of Item of Work	Un	it Qu	antity	Curren	cy	Rate	Amou	nt
provided.	to			-				
LT (415V) CABLE: Supply, installation & terminatio of following PVC insulated and PVC sheathed cables of BRB/Paradise brand over cable tray/ladder, as per direction of SMC authority to connect generator with synchronization panel as well as connection between								
synchronization panel and ATS The rate shall include the cost of all cable lugs (including of								
existing cable, wherever applicable), tie wire, PVC tape, PIB Tape, flexible pipes etc dressing up to the satisfaction of engineer-in-charge.							8	
All Unit rates of cables should be prepared prevailing market rates, AIT, VAT (VAT shall be waived if already paid by cable manufacturer on submission of relevant document), expenses, overheads, certain percent of				R III		s. D a		
standard wastages, if any, and Profit.								10
1) 1-C185rm XLPE	Meter	30	В	DT	CV 17	<i>(6)</i>	6 6 B	,01
9) 1-C150rm XLPE	Meter	30	B	DT	L+1; L+1;	461	ev A?	3, 43 B
) 1-C120rm XLPE	Meter	100	BI	DT	KY/	172	x 117	,200
) 1-C 95rm XLPE	Meter	10	BI	OT	UK.	P4(VY0), 34
) 1-C50rm XLPE	Meter	10	BI	TC	1K	515	KY 1	5,150
upply, installation & termination following PVC insulated and	Meter	150	BI)T	145°	20	1489 1489 1489	,400
VC sheathed cables (1-C50rm LPE type) of BRB/ Paradise and over cable tray/ ladder (if quired), connecting generator dy to substation earthing block								







Description of Item of Work	Unit	Quantit	y Currency	Rate	Amount
as per direction of SMC authority.	-				
The rate shall include the cost of					
all cable lugs, tie wire, PVC tape,					
PIB Tape etc dressing up to the					
satisfaction engineer-in-charge.					
Supply, installation & termination	Meter	300	BDT	D	
of Control cable 4x40/76 (4-	1110101	300	וטנו	1K81	TK 24,300
core) of BRB/ Paradise brand	(3)			Taka	1,500
over cable tray/ ladder. All work			125	Paka Eight	
to be done as per direction of	0			El Hal	
engineer-in-charge.				one one	
Supply, Installation Aluminium	Meter	150	DDT		3
wire mesh shielded cable 2C-	Meter	130	BDT	TK 200	TK 30,000
1.2rm flexible imported cable	*			Taka Tu	10
	N (- 4	20	DDM	Taka Tu Hundred	only
Supply, installation 2 feet wide	Meter	20	BDT		
cable tray/ ladder hanging from				14 27884	PK 77, 740
ceiling/ wall with anchor bolt of			\$1 B		
Hill brand, MS bar/ wire, cable	12				12
lie, clamp etc all work to be done			-		
nn per direction of engineer-in-					
gharge.					
Supply, installation Exhaust pipe	Meter	40	BDT	TV (492	TK 259,680
of sultable dia with necessary			e 10	1/0/1/2	11-11-00
pend, heat proof painting, winding			•		- S
nuffler wherever required etc all			2		
work to be done as per direction		6		100	
of engineer-in-charge.			881 20		
	Sqm	40 '	BDT	TK3042	TK 121,680
ollecting hot air from radiator fan				12017	(K 1- 1/000
and disposing to outside air. All					165 E
work to be done as per direction		N .		, l	2
f engineer-in-charge.			4	*	
	Lot	1	BDT	FILLA 07	
ffered generators at site, lifting				1417743	TK 12,879
nd placing at suitable locations					
per drawing as instruction of					
ngineer-in-charge.				6	
	Set (6	BDT	Pert	THE AL DINE
Ilure relay of ABB/ Schneider or				PK10,4%	14 62,8 th
pproved equivalent brand only		.			Esta Sin
om sole agent/ authorized					No.
utributor. The Phase failure			yr.		160 *
ay shall be capable tripping					
otorized TP ACB auto ON/OFF					anta m
NO 400 above A TP MCCB					(SETTING)
anual ON/OFF) to OFF position					The (5 () 12)
					THE STATE OF THE S

1						
Description of Item of Work	Unit	Quantity	Currency	Rate	Amount	
on the event of phase failure and				0.000	rmount	
Phase sequence reversal.						
Supply and installing Fuel	Job	,	which had been a common or a			
Consumption Monitoring flow		1	BDT	4/	2001	
ineter BT-DOFS-012. Broilfech				280	10010	
India, Interact view with free				(X)	(x 108,89)	
polituare must be available.			j	1,	,	
1/1/2		ØI.				
Inlamount in Group-A in BDT:		.lk	5,533	7827	11	
\(\(\cap{C}\)	13/	Tava	CHAY	6510	Lac Theraty ht Hundred M	_
	. 2	Tingo	TIV. (2110	1 11 man	25
oup-B: Supply, installation, testin S) and 1250 ampere synchroniza	g and co	mmissioni	1/20000	alg Elg	nt Hundred M	LON
8) and 1250 ampere synchroniza	tion nand	2] AMUU 100 10 11 11	ig of 1250 A	Auto Tran	sfer Switch Seve	W.
rescription of Item of Work						
upply and installing 1250 ampere	Lot 1		Currency		Amount	Q
Inchronization panel:	1		BDT	.06	. 112	
isel steel clad powder coated				(216,686)	(x216,686	
1/105W(J), 415V, 50 Hz dust			7	tr.	14	
d vermin proof, free standing,	1					
por mounting, Indoor type			- f (0		Taka Two	
enerator Synchronizing Panel				run lad	Lac Styleen	
th Dimension/Size: As			7011	(wo care		
nimum as possible of suitable		2	S	ixteen	Thousand	
	ĺ			DI WAR	Six Horard	
pply and installing Relays of				Manyout.	O LO COLO	
ferably Schneider brand, timer,	1		Gi	12	Ei Shtt	
Nos. Phase Indicating Lamp				•		
rd, Yellow & Blue), three			H	undred o	512	
ergency Push Buttons, Volt			(0)	are i		
er and Ampere meter must be			15	Sur a	wyy,	
and of high quality	G.,		(1)	W	0 1 0	
luding all other accessories			5			
Madever may be required to			10	nin	* * * * * * * * * * * * * * * * * * * *	
pilete the job in all respect etc			-	1		
lever necessary for successful	1			-		
dironizing.					20	
	1	3	1	J		
				1		
(1) 10 · 10 · 10 · 10 · 10 · 10 · 10 · 10					8	
ly and installing Set	2	BDT	,	14		
Ilironization enabled		וטטו		6407		
foller with PLC with a			KK)	540th TK	308, 148	
my) of adequate capacity for					1.05	
500 KVA generators and			in the			
controller shall Display Load		E.		3 3		

POWER STATES



Share, current, volfages etc in evochronization panel. DSE8610, Drep Sea, UK Control Module With connection accessories like relay, timer, MCB, Surge protector for completing the control panel. Supply and installing 630A, 42kA, TP ACB Fixed Type chasslas/ housing (Receiving existing 200kVA generator output) in synchronization panel. Supply and installing 800A, Set 50kA, TP ACB Fixed Type chasslas/ housing, (Receiving offered 500 KVA generator output) in synchronization panel with Dimension/Size As and exemply and installing ATS Panel: Sheet steel clad powder coated (14/168WC), 415V, 50 Hz dust and vermin proof, free standing, thour mounting, Indoor type ATS and with Dimension/Size: As infilmum as possible of suitable lize with Volt meter and Ampere neter must be digital and of high unality including all other coessories whatsoever may be equired to complete the job in all sapect etc whatever necessary for necessa	Description of Item of Work	Uni	it Quan	tity Curre	nav D.4	
Proceducination panel. DSE8610, Drep Sea, UK Control Module With connection accessories like telay, timer, MCB, Surge protector for completing the control panel. Supply and installing 630A, 42kA, TP ACB Fixed Type chassis/ housing (Receiving existing 200KVA generator output) in synchronization panel Supply and installing 800A, Set 2 BDT SUPPLY ACB Fixed Type chassis/ housing. (Receiving contput) in synchronization panel Supply and installing ATS Panel: thee steel clad powder coated 14/168WG), 415V, 50 Hz dust and vermin proof, free standing, loor mounting, indoor type ATS Panel with Dimension/Size: As infinium as possible of suitable lize with Volt meter and Amperenter must be digital and of high untility in the digital and of high untility in the proof of the power supply and installing 1250A, Set 2 BDT WASSI TABLE TO SET TO	Share, current, voltages etc	in	- X uuii	curry curry	ncy Rate	Amount
Deep Sea, LIK Control Module With connection accessories like relay, timer, McB, Surge protector for completing the control panel. Supply and installing 630A, 42KA, TP ACB Fixed Type chassis/ housing (Receiving existing 200KVA generator output) in synchronization panel Supply and installing 800A, Set 2 BDT SOKA, TP ACB Fixed Type chassis/ housing. (Receiving offered 500 KVA generator output) in synchronization panel output) in synchronization panel supply and installing ATS Panel: Lot 1 BDT SokA, TP ACB Fixed Type chassis/ housing. (Receiving offered 500 KVA generator output) in synchronization panel supply and installing ATS Panel: Lot 1 BDT SokA, TP ACB Fixed Type chassis/ housing in the control of	synchronization panel. DSE861	0.				
With connection accessories like telay, timer, MCB, Surge protector for completing the control panel. Supply and installing 630A, 42KA, TP ACB Fixed Type chassis/ housing (Receiving existing 200KVA generator output) in synchronization panel Supply and installing 800A, Set 2 BDT BDT BDT BDT BDT BDT BDT BD	Deep Sea, UK Control Modu	le				
ledny, timer, MCB, Surge protector for completing the control panel. Supply and installing 630A, 42KA, TP ACB Fixed Type chassis/ housing (Receiving existing 200KVA generator output) in synchronization panel Supply and installing 800A, 5et 2 Supply and installing 800A, 5et 2 BDT Abbot 1 BDT	With connection accessories like	ce			Xe	
protector for completing the control panel. Supply and installing 630A, Set 42KA, TP ACB Fixed Type chasals/ housing (Receiving existing 200KVA generator output) in synchronization panel. Supply and installing 800A, 50KA, TP ACB Fixed Type chasals/ housing. (Receiving offered 500 KVA generator output) in synchronization panel. Supply and installing ATS Panel: Sheet steel clad powder coated 14/16SWO), 415V, 50 ltz dust and vermin proof, free standing, loor mounting, Indoor type ATS lanel with Dimension/Size: As infilmum as possible of suitable ize with Volt meter and Ampere neter must be digital and of high utility including all other coessories whatsoever may be poulred to complete the job in all spect etc whatsoever may be poulred to complete the job in all spect etc whatsoever may be poulred to complete the job in all spect etc whatsoever may be poulred to complete the job in all spect etc whatsoever may be poulred to complete the job in all spect of collecting power in power adequate length. BDT WASSA TP ACB Fixed Type massis/ housing in ATS Panel upply and installing Each 2000A red drawn copper TP + N busbar adequate length. BDT RASSA TP ACB Fixed Type massis/ housing in ATS Panel upply and installing Each 2000A red drawn copper TP + N busbar adequate length. BDT RASSA TP ACB Fixed Type massis/ housing in ATS Panel upply and installing Each 2000A red drawn copper TP + N busbar adequate length. BDT RASSA TRANSPACE TYPE TRANSPACE TRANSPAC						
Supply and installing 630A, 42KA, TP ACB Fixed Type chassls/ housing (Receiving existing 200KVA generator output) in synchronization panel Supply and installing 800A, 50KA, TP ACB Fixed Type chassls/ housing. (Receiving offered 500 KVA generator output) in synchronization panel Supply and installing ATS Panel: Lot sheet steel clad powder coated 14/16SWG), 415V, 50 Hz dust and vermin proof, free standing, floor mounting, Indoor type ATS and with Dimension/Size: As minfimum as possible of suitable lize with Volt meter and Ampere meter must be digital and of high untilly including all other ceessories whatsoever may be equired to complete the job in all aspect ete whatever necessary for incressful auto transfer. Supply and installing 1250A, Set 2 BDT RASPI RAPA PARA TO ALS AKA, TP ACB Fixed Type assis/ housing in ATS Panel upply and installing Each 2000A red drawn copper TP + N busbar adequate length. The set for collecting power stop and another supplying ATS output).	protector for completing th					20
42KA, TP ACB Fixed Type chassis/ housing (Receiving existing 200KVA generator output) in synchronization panel supply and installing 800A, 50KA, TP ACB Fixed Type chassis/ housing. (Receiving offered 500 KVA generator output) in synchronization panel supply and installing ATS Panel: Benet steel clad powder coated 14/165WG), 415V, 50 Hz dust and vermin proof, free standing, loor mounting, indoor type ATS Panel with Dimension/Size: As infilmum as possible of suitable lize with Volt meter and Ampere neter must be digital and of high utality including all other ceessful auto transfer. 14 ACB Fixed Type passis/ housing in ATS Panel piply and installing 1250A, 5KA, TP ACB Fixed Type passis/ housing in ATS Panel piply and installing Each 2000A red drawn copper TP + N busbar indequate length. 15 BDT RASS RATE ACB Fixed Type passis/ housing in ATS Panel piply and installing Each 2000A red drawn copper TP + N busbar indequate length. 16 BDT RASS RATE ACB Fixed Type passis/ housing in ATS Panel piply and installing Each 2000A red drawn copper TP + N busbar indequate length. 17 BDT RASS RATE ACB Fixed Type passis/ housing in ATS Panel piply and another supplying ATS output).	control panet.					
chassis/ housing (Receiving existing 200KVA generator output) in synchronization panel Supply and installing 800A, 50KA, TP ACB Fixed Type chassis/ housing. (Receiving offered 500 KVA generator output) in synchronization panel Supply and installing ATS Panel: Sheet steel clad powder coated 14/16sWG), 415V, 50 Hz dust and vermin proof, firee standing, loor mounting, Indoor type ATS land with Dimension/Size: As ninimum as possible of suitable lize with Volt meter and Ampere inter must be digital and of high utility including all other coessories whatsoever may be equired to complete the job in all speet ette whatever necessary for increases what soever may be equired to complete the job in all speet ette whatever necessary for increases what soever may be equired to complete the job in all speet ette whatever necessary for increases what soever may be equired to complete the job in all speet ette whatever necessary for increases what soever may be equired to complete the job in all speet ette whatever necessary for increases what soever may be equired to complete the job in all speet ette whatever necessary for increases what soever may be equired to complete the job in all speet ette whatever necessary for increases what soever may be equired to complete the job in all speet ette whatever necessary for increases which increases where we have the proper that the which is a supply and installing Each 2000A and drawn copper TP + N busbar and equate length. The standard proper increases where we have a supplying ATS output). The standard proper increases where we have a supplying ATS output).	Supply and installing 630A	\ Set	1	DDT	10 pt 4 lb 2 max 1	10
Supply and installing 800A, 50KA, TP ACB Fixed Type chassis/ housing. (Receiving offered 500 KVA generator output) in synchronization panel supply and installing ATS Panel: Bheet steel clad powder coated 14/16SWG), 415V, 50 Hz dust and vermin proof, free standing, floor mounting, Indoor type ATS land with Dimension/Size: As minimum as possible of suitable lize with Volt meter and Ampere meter must be digital and of high utility including all other coessories whatsoever may be equired to complete the job in all espect etc whatever necessary for necessful auto transfer. Upply and installing 1250A, 5KA, TP ACB Fixed Type assis/ housing in ATS Panel upply and installing Each 2000A and drawn copper TP + N busbar adequate length. The set for collecting power supply and another supplying ATS output).	42KA. TP ACB Fixed Typ	e	1	15171	. Q	0/0
Supply and installing 800A, 50KA, TP ACB Fixed Type chassis/ housing. (Receiving offered 500 KVA generator output) in synchronization panel supply and installing ATS Panel: Bheet steel clad powder coated 14/16SWG), 415V, 50 Hz dust and vermin proof, free standing, floor mounting, Indoor type ATS land with Dimension/Size: As minimum as possible of suitable lize with Volt meter and Ampere meter must be digital and of high utility including all other coessories whatsoever may be equired to complete the job in all espect etc whatever necessary for necessful auto transfer. Upply and installing 1250A, 5KA, TP ACB Fixed Type assis/ housing in ATS Panel upply and installing Each 2000A and drawn copper TP + N busbar adequate length. The set for collecting power supply and another supplying ATS output).	chasala/ housing (Receiving	σ			2601	0 6618
Supply and installing 800A, 50KA, TP ACB Fixed Type chassis/ housing. (Receiving offered 500 KVA generator output) in synchronization panel supply and installing ATS Panel: Bheet steel clad powder coated 14/16SWG), 415V, 50 Hz dust and vermin proof, free standing, floor mounting, Indoor type ATS land with Dimension/Size: As minimum as possible of suitable lize with Volt meter and Ampere meter must be digital and of high utility including all other coessories whatsoever may be equired to complete the job in all espect etc whatever necessary for necessful auto transfer. Upply and installing 1250A, 5KA, TP ACB Fixed Type assis/ housing in ATS Panel upply and installing Each 2000A and drawn copper TP + N busbar adequate length. The set for collecting power supply and another supplying ATS output).	existing 200KVA generate				, 'S'	\alpha '5"
Supply and installing 800A, 50KA, TP ACB Fixed Type chassis/ housing. (Receiving offered 500 KVA generator output) in synchronization panel Bupply and installing ATS Panel: Sheet steel clad powder coated 14/168WG), 415V, 50 Hz dust and vermin proof, free standing, loor mounting, Indoor type ATS Panel with Dimension/Size: As minimum as possible of suitable lize with Volt meter and Ampere meter must be digital and of high uality including all other ceessories whatsoever may be equired to complete the job in all speet ete whatever necessary for incessful auto transfer. Set 2 BDT When the first of	output) in synchronization panel	*	3	1	X	1.4
50KA, TP ACB Fixed Type chassis/ housing. (Receiving offered 500 KVA generator output) in synchronization panel Supply and installing ATS Panel: Bheet steel clad powder coated 14/16SWG), 415V, 50 Hz dust and vermin proof, free standing, floor mounting, Indoor type ATS Panel with Dimension/Size: As minimum as possible of suitable lize with Volt meter and Ampere neter must be digital and of high unally including all other ceessories whatsoever may be equired to complete the job in all espect etc whatever necessary for necessful auto transfer. Upply and installing 1250A, Set 2 BDT PACB Fixed Type assis/ housing in ATS Panel upply and installing Each 2000A rd drawn copper TP + N busbar adequate length. The set for collecting power supply and another supplying ATS output).		Set	2	DD.		
Supply and installing ATS Panel: Sheet steel clad powder coated (14/168WG), 415V, 50 Hz dust and vermin proof, free standing, floor mounting, Indoor type ATS and with Dimension/Size: As infilmum as possible of suitable lize with Volt meter and Ampere meter must be digital and of high quality including all other ceessories whatsoever may be equired to complete the job in all espect etc whatever necessary for necessful auto transfer. Upply and installing 1250A, Set 2 BDT (N. 385) (N. 37) (N		, 501	2	BDI	5)	0
Supply and installing ATS Panel: Sheet steel clad powder coated (14/168WG), 415V, 50 Hz dust and vermin proof, free standing, floor mounting, Indoor type ATS and with Dimension/Size: As infilmum as possible of suitable lize with Volt meter and Ampere meter must be digital and of high quality including all other ceessories whatsoever may be equired to complete the job in all espect etc whatever necessary for necessful auto transfer. Upply and installing 1250A, Set 2 BDT (N. 385) (N. 37) (N	Change (Receiving				الأطهاء	1 220
Supply and installing ATS Panel: Sheet steel clad powder coated (14/168WG), 415V, 50 Hz dust and vermin proof, free standing, floor mounting, Indoor type ATS and with Dimension/Size: As infilmum as possible of suitable lize with Volt meter and Ampere meter must be digital and of high quality including all other ceessories whatsoever may be equired to complete the job in all espect etc whatever necessary for necessful auto transfer. Upply and installing 1250A, Set 2 BDT (N. 385) (N. 37) (N	offered 500 KVA generator			1	XX DOW	KV + 33)
Supply and installing ATS Panel: Sheet steel clad powder coated (14/168WG), 415V, 50 Hz dust and vermin proof, free standing, ladoor type ATS lanel with Dimension/Size: As ninimum as possible of suitable lize with Volt meter and Ampere neter must be digital and of high quality including all other eccessories whatsoever may be equired to complete the job in all speet etc whatever necessary for necessful auto transfer. Imply and installing 1250A, Set 2 BDT passis/ housing in ATS Panel upply and installing Each 2000A and drawn copper TP + N busbar adequate length. The set for collecting power supply and another supplying ATS output).					1	VE.
Sheet steel clad powder coated (14/168WG), 415V, 50 Hz dust and vermin proof, free standing, floor mounting, Indoor type ATS Panel with Dimension/Size: As minimum as possible of suitable lize with Volt meter and Ampere meter must be digital and of high quality including all other eccessories whatsoever may be equired to complete the job in all spect ele whatever necessary for accessful auto transfer. Apply and installing 1250A, Set 2 BDT passive housing in ATS Panel upply and installing Each 2000A and drawn copper TP + N busbar adequate length. The set for collecting power supply and another supplying ATS output).	Supply and installing ATS Panels	T =4	-			
Panel with Dimension/Size: As minimum as possible of suitable lize with Volt meter and Ampere meter must be digital and of high quality including all other ceessories whatsoever may be equired to complete the job in all especie etc whatever necessary for necessful auto transfer. Panel Mith Volt meter and Ampere meter must be digital and of high quality including all other ceessories whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be experienced and other expected to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be especies whatsoever may be especies white the property of the pr	Sheet steel clad powder costed	Lot	1	BDT	10) n
Panel with Dimension/Size: As minimum as possible of suitable lize with Volt meter and Ampere meter must be digital and of high quality including all other ceessories whatsoever may be equired to complete the job in all especie etc whatever necessary for necessful auto transfer. Panel Mith Volt meter and Ampere meter must be digital and of high quality including all other ceessories whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be experienced and other expected to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be especies whatsoever may be especies white the property of the pr	(1/168WG) 415V 50 Hz dust				.6/2	160
Panel with Dimension/Size: As minimum as possible of suitable lize with Volt meter and Ampere meter must be digital and of high quality including all other ceessories whatsoever may be equired to complete the job in all especie etc whatever necessary for necessful auto transfer. Panel Mith Volt meter and Ampere meter must be digital and of high quality including all other ceessories whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be experienced and other expected to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be especies whatsoever may be especies white the property of the pr	and vermin proof free standing				1,163,	1/20,
Panel with Dimension/Size: As minimum as possible of suitable lize with Volt meter and Ampere meter must be digital and of high quality including all other ceessories whatsoever may be equired to complete the job in all especie etc whatever necessary for necessful auto transfer. Panel Mith Volt meter and Ampere meter must be digital and of high quality including all other ceessories whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be experienced and other expected to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be equired to complete the job in all especies whatsoever may be especies whatsoever may be especies white the property of the pr	Hoor mounting Indoor type ATS				14	14.
minimum as possible of suitable lize with Volt meter and Ampere neter must be digital and of high maility including all other ceessories whatsoever may be equired to complete the job in all espect etc whatever necessary for necessful auto transfer. Upply and installing 1250A, BKA, TP ACB Fixed Type assis/ housing in ATS Panel upply and installing Each 2000A ard drawn copper TP + N busbar adequate length. The set for collecting power to ACB of synchronization nel, one set for collecting power lin power supply and another supplying ATS output).	I and with Dimension/Size: As					
neter must be digital and of high quality including all other ceessories whatsoever may be equired to complete the job in all espect etc whatever necessary for necessful auto transfer. Apply and installing 1250A, Set BDT WASSI PACB Fixed Type passis/ housing in ATS Panel apply and installing Each 2000A and drawn copper TP + N busbar adequate length. The set for collecting power supply and another supplying ATS output). BDT WASSI PACE OF Synchronization nel, one set for collecting power supply and another supplying ATS output).	illinum as possible of suitable					
neter must be digital and of high quality including all other eccessories whatsoever may be equired to complete the job in all espect etc whatever necessary for necessful auto transfer. Imply and installing 1250A, Set 2 BDT RACB Fixed Type passis/ housing in ATS Panel pipply and installing Each 2000A and drawn copper TP + N busbar adequate length. The set for collecting power so A ACB of synchronization nel, one set for collecting power supplying ATS output).	With Valt mater and America	2		20		
mality including all other ceessories whatsoever may be equired to complete the job in all supply and installing 1250A, Set 2 BDT passis/housing in ATS Panel apply and installing Each 2000A and drawn copper TP + N busbar adequate length. The set for collecting power so A ACB of synchronization nel, one set for collecting power supply and another supplying ATS output).	mater must be digital and of high					4.0
ecessories whatsoever may be equired to complete the job in all espect etc whatever necessary for necessful auto transfer. Apply and installing 1250A, Set 2 BDT ACB Fixed Type passis/housing in ATS Panel apply and installing Each 2000A and drawn copper TP + N busbar adequate length. The set for collecting power so A ACB of synchronization nel, one set for collecting power ain power supply and another supplying ATS output).	highly including all attach					
equired to complete the job in all support etc whatever necessary for necessful auto transfer. upply and installing 1250A, Set 2 BDT WATO ACB Fixed Type nassis/ housing in ATS Panel upply and installing Each 2000A and drawn copper TP + N busbar adequate length. The set for collecting power so A ACB of synchronization nel, one set for collecting power ain power supply and another supplying ATS output).	GRANGER Whatever					
paper ete whatever necessary for necessful auto transfer. upply and installing 1250A, Set 2 BDT ACB Fixed Type nassls/housing in ATS Panel upply and installing Each 2000A rd drawn copper TP + N busbar adequate length. ne set for collecting power 50 A ACB of synchronization nel, one set for collecting power lin power supply and another supplying ATS output).	adulted to complete the int in the					
increaseful auto transfer. Upply and installing 1250A, Set 2 BDT OKA, TP ACB Fixed Type Installing Each 2000A inply and installing Each 2000A inply and installing Each 2000A indicated the set for collecting power in power supply and another supplying ATS output). In power supply and another supplying ATS output).	tanget ale whatever persons.		,			77
upply and installing 1250A, Set 2 BDT RKA, TP ACB Fixed Type assis/housing in ATS Panel upply and installing Each 2000A rd drawn copper TP + N busbar adequate length. ne set for collecting power 50 A ACB of synchronization nel, one set for collecting power lin power supply and another supplying ATS output).	indeseful auto transfor	34				
Indicate the set for collecting power sold and another supplying ATS output). BDT BDT BDT BDT BDT BDT	The state of the s	-			,0	
Indicate the set for collecting power sold and another supplying ATS output). BDT BDT BDT BDT BDT BDT	125011,	Set	2	BDT -	2021	1-608
Indicate the set for collecting power sold and another supplying ATS output). BDT BDT BDT BDT BDT BDT	hassle/handles in ATC P.			8	Ex 13821	ev 170,9
Indidrawn copper TP + N busbar adequate length. The set for collecting power sold for collecting power lin power supply and another supplying ATS output).	ingly and lentelling in ATS Panel				./4.	Stri
in power supply and another supplying ATS output).	inply and installing Each 2000A	Set	4	BDT	•	
in power supply and another supplying ATS output).	Indequate larget				27	1232
in power supply and another supplying ATS output).	nacyuate length.				(0, 0)	017,
in power supply and another supplying ATS output).	160 A ACD of			2	xyb"	XX 11
in power supply and another supplying ATS output).	nel angest for all				(1,	1
aupplying ATS output).	ie, one set for collecting power					ald POW
Willy good lie at all in D. Tri	pun power supply and another					ME THE
os DSI 8680 Bus Tie control BDT BDT WAS BELLEVIEW OF THE CONTROL BDT	aupplying ATS output).					NS Dyska
os DSE8680 Bus Tie control		Job	1	BDT	A	
os DSI 8680 Bus Tie control	aker control with				18 P	W BA
Ds DS128680 Bus Tie control	achronization:				" Under	14,2/01
Os DSI 8680 Bus Tie control					XY	CEPE CO
* * *	os DSE8680 Bus Tie control					
	and the second s		And the same of th			*

Description of Item of Work	Un	it (Quantity	Currenc	y Rate	Amount	
* todule, Deep Sea, UK. Connects to two DSF Multi-Set	;					Amount	
ommunications links (Bus 1 &							
tus 2) including Configurable						ľ	
vent log (250), Data logging							
UNB Memory Stick).					100		767
vnehronize and Connecting two							
usbur electrically synchronized.							
my in case one of existing 500							
VA, 509 KVA, or new 500			804				94
VA goes out of order, power							
fletency will be replenished							
om the substations resulting in						*	
loss of production)							
					6		
pply and Installing Remote	Job	1		RDG			
mmunications & Overview				BDT	, (%)	40×10	0
plays: DSE890 (3G Gateway), Pp Sea, UK Including GSM					NO KI	20	
lenna & GPS Antenna with					14	(X)	
met view						() ,	
Maria de la companya	Job	1		and			
Pr Isauance of PO/ after		1		ועפ	200	<+ kt,35	A
ing formal Agreement) will					14,	125	
in and aubmit certificate/				1	(To	XX BU	
ion from Bureau of Research,					N	'\'	
ing and Consultation (BRTC),							
lladesh University of						Taka!	31247
neering and Technology						four T	maria
iT) confirming that					2		10 -1 100
ironization is possible						Three	
een existing 200 KVA						11. ~ 10	60
e) diesel generator and with						Hunda Ninet Four	1
offered 500 KVA (prime)						Winet	7
Lenerator outputs.						FOUR	4
***************************************				1	1	nn	M

mount in Group-B in BDT: TK 3,345,588

Taka Thinty Three Lac Porty Five Thousand Five Hundred Eight Eight only

Page 9 of 12



Group-C				
Cable rearrangement for: (AVR by-pass to A' Description of Item of Work	TS). Uni	t Quanti	ty Rat	
LT (415V) CABLE: Supply, installation & termination of followin PVC insulated and PVC sheathed cables of IRB/ Paradise brand over cable tray/ ladder us per direction of SMC authority. The rate shall include the cost of all cable lugs (including existing cable without lugs, wherever applicable) the cost of all cables.	NA N	×	do Please	e Please do not quote
wherever applicable), the wire, PVC tape, PIB Tape etc dressing up to the satisfaction of engineer-in-charge. a) 1-C400rm XLPE	Meter	10	1	
b) 1*C300 rm XLPE	Meter	10	14.2't,	<+ 34,
v) 1°C 185 rm XLPE	Meter	30	TX 2,80	7428,06
d) 1-C 150 rm XLPE	Meter	30	1x1,44	<4 5b,
e) I=C 120 rm XLPE	Meter	100	TK1,46	< 37, < 28,000 < 4 28,000 < 4 53, < 4 53,860 < 119,200
9) 1-C 95 rm XLPE	Meter	10	(406)	TK 7,690
	Meter	10		
Supplementation of the	Meter	20	TX 574	TK11,480
upply and installing, Protection of system for 1 7 generators while conditional nebronizing: ninterrupted Power Transfer when main pply resumes.	Job	1	A	x 4 65 2 5 14
N DSISS660, Deep Sea, UK Auto Transfer vitels & Mains Control Module with uncetton accessories like a reverse power plection, kW overload protection, relay, per, MCB, Surge protector for the generator litrol panel. Multiple generator output difficution (Synchronization) identically with performer/AVR.			Rt	X fo
ernet view of Mains failure detection, mains wer monitoring (kW, kVAr, kVA & pf)		alu Pou		CENTE PRO
Page 10 of 12	2	(3) (Das)		ANGLADES

Description of Item of Work	Unit	Quantity	Rate	Amount
monitoring, mains decouple protection for puricular from abrupt change in phase angle, vector shift, rate of change of frequency. Mains KW export (toward source of main power) intection. This will include Configurable event of (250), Data logging (USB Memory Stick), lower monitoring (kW h, kVAr, kv Ah, kV Ar				

Taka Nine Lac Sixty Two Thousand Seventeen only

pllon-2-Group-D: Two Thousand four Hundred ptlon-2-Group-D:

MC EL desires to open letter of credit (L/C) for item # 1 of Group-D where rate must in C&F Chittingong basis. A draft PI (Proforma invoice) has to be attached with

quoling is mandatory for supply, installation, testing and commissioning 500 KVA ne) dlesels Generator where SMC-EL will open L/C.

Meription of Item of Work	Unit	Quantity	Currency	Rate	Amount
pply, installation, testing and mmissioning 500 KVA (prime)	Set	1 .	GBP	GBP 31,00	0
sel Generator set with control lef with built-in PLC and	(56)				GBP 31,00
play (without canopy and liout ATS) with adequate				Thinty	GBP Then
he one MCCB for each genset. Helent number of vibration			e i	one	one The
alors of sultable capacity is to rovided.		ti.		Thousan	only

amount in Option-2-Group-D:

CBP 31,000 CFR Che'flagorg

about one Thousand only





The lidder must fulfil the following:

- b) I financial Offer duly filled up, signed and sealed by the Tenderer/ bidder.
- Applicable VAT/TAX shall be deducted from source as per govt, rules from from local currency part.
- Requisite earnest money in the form Bank Guarantee/ Bank Draft/Pay Order in favor of "MC Enterprise Limited" from any schedule Bank of Bangladesh.
- Operation and maintenance manual must be submitted while commissioning. Shop drawing at ATS and Synchronization Panel must be approved by owner. Locally fabricated with imported imponents 1250 A synchronization panel And Auto Transfer Switch (ATS) must be assembled y the Tenderer/bidder. A single line diagram (SLD) and shop drawings for synchronization and Auto Transfer Switch (ATS) must be submitted for approval of SMC within 15 ilendar days by successful bidder from issuance of PO/letter of acceptance.

Above quantities may increase or decrease, bill will paid as per joint field measurement. For



