



National Development Engineers Ltd.

December 14, 2016

To
CROSS WORLD POWER LIMITED
House-6, Road-92, Gulshan-2, Dhaka-1212.

Attn: Shohel Uddin Bhuiyan, Manager, Sales.

Subject: Work Order for supplying, Installation, Testing and Commissioning of 4x630 & 1x150KVA Generator Exhaust & Cooling system, 10000 liter under ground fuel storage tank pipe line and Electrical system of NDE steel structure Factory Ltd. At Valuka, Mymensingh.

Dear Sir,

In response to your quotation date December 01, 2016, and our subsequent discussion on December 08, 2016, we are pleased to give you the work order for the above mentioned job under following terms and condition.

A: Rates and items of works.

Sl. No.	DESCRIPTION	TECHNICAL DETAILS/Brand	Unit	QTY	Unit Rate	Amount
1	PART : 1, EXHAUST SYSTEM (4X630KVA DG)					
1.1	Exhaust silencer straight pipe	MS pipe bore 200mm (20 Schedule MS ERW Pipe) -6mm	feet	70	1,598.00	111,860.00
1.2	Exhaust Bends/ Elbow with Flange	Long Radius 90 deg L bow 200mm bore	Pcs	12	2,084.00	25,008.00
1.3	Exhaust Flange	200mm bore MS Flange	Pcs	32	1,042.00	33,344.00
1.4	Exhaust Insulation	Material- Rockwool, Thickness 50mm; Jacketing material-Aluminium Sheet 26SWG Thickness	Job	1	24,317.00	24,317.00
1.5	Exhaust Fitting	U Stripe 75mm MS flat bar, MS threaded rod & SS Anchor bolt for Fixing	Job	1	19,453.00	19,453.00
	EXHAUST SYSTEM (1X150KVA DG)					
1.6	Exhaust silencer straight pipe	MS pipe bore 127mm (40 Schedule MS ERW Pipe)	feet	25	1,181.00	29,525.00
1.7	Exhaust Bends/ Elbow with Flange	Long Radius 90 deg L bow 127mm bore	Pcs	3	1,181.00	3,543.00
1.8	Exhaust Flange	127mm bore MS Flange	Pcs	8	764.00	6,112.00
1.9	Exhaust Insulation	Material- Rockwool, Thickness 50mm; Jacketing material-Aluminium Sheet 26SWG Thickness	Job	1	6,948.00	6,948.00
1.10	Exhaust Fitting	U Stripe 75mm MS flat bar, MS threaded rod & SS Anchor bolt for Fixing	Job	1	5,211.00	5,211.00
	Cooling System:					
1.11	Radiator Dutching	As per layout with 20/22 SWG MS Sheet, Angle bar, Flat bar support, Canvas cloth etc as required.	Sq-ft	700	278.00	194,600.00
					Total=	459,921.00
					Special discount 13% =	59,789.73
						400,131.27

Perkins



National Development Engineers Ltd.

Sl. No.	DESCRIPTION	TECHNICAL DETAILS/Brand	Unit	QTY	Unit Rate	Amount
2	PART: 2, FUEL STORAGE TANK					
2.1	Fuel pipe	Ø37 mm (inner), seamless Mild steel pipe; Including Welding Joint, leak testing, outside Red oxide & Enamel painted.	Meter (Approx.)	25	1,525.00	38,125.00
2.2	Fuel/ water Separator	Separ, SWK, 2000/18	Pcs	1	130,800.00	130,800.00
2.3	Fuel Pump (Electric)	1HP Brand: Pedrollo, Flow Rate up to 50 l/min	Pcs	1	18,167.00	18,167.00
2.4	Fuel Pipe Plumbing works & Accessories	Plumbing of fuel pipe with necessary fitting at delivery & refueling as per design.	Job	1	35,000.00	35,000.00
2.5	Ball Valve	MS, 1" dia (6 pc) & 1.5" dia (6 pc), made in china	Pcs	12	315.00	3,780.00
2.6	Fuel Strainer		Pcs	1	3,543.00	3,543.00
2.7	PVC Flexible Ring Hose Pipe	Pipe bore 25.4mm	Meter	22	496.00	10,912.00
2.8	Installation Charge		Job	1	26,887.00	26,887.00
					Total=	267,214.00
					Special Discount: (6.40%)	17,101.70
						250,112.30
3	PART: 3, Electrical system (Only installation work as per enclosed sheet and all material supply by NDE)		Job	1	Free of cost	Only NDE will help by manual labour for cable drawing.

B. Mode of Payment:

- Tk.4,50,000/= Advance payment shall be made along with work order.
- Tk.2,00,000/= Payment shall be made after successfully installation, testing and commissioning (The amount may be vary subject to quantity of goods as per actual site requirement) .

C. Warranty Period: 12 months for all equipment's from the date of commissioning.

D. Work Completion time: 15 days from the date of work order.

E. Specification: As per enclosed quotation.

F. Drawing: As per enclosed Approved drawing.

We would therefore, request you to supply, install, test and commission of the work within stipulated time.

Thanking you

RAIHAN MUSTAFIZ
Director

Signature as Taken of Acceptance

8th December

MECHANICAL INSTALLATION									
SL NO	JOB DESCRIPTION	TECHNICAL DETAILS/ BRAND	UOM	Unit	Qty	Unit Sale	Total Sale	REMARKS	
3.1	EXHAUST SYSTEM (4X630KVA DG)								
3.1.1	Exhaust Silencer straight Pipe	MS Pipe bore 200mm (20 Schedule MS ERW Pipe) -6 mm	Feet		70	1,598	111,856		
3.1.2	Exhaust Bends / Elbow with Flange	Long radius 90 deg L bow 200mm bore	Pcs		12	2,084	25,011		
3.1.3	Exhaust Flange	200mm bore MS Flange	Pcs		32	1,042	33,348		
3.1.4	Exhaust Insulation	Material - Rockwool, Thickness 50mm, jacketing material-Aluminium Sheet 26SWG thickness	Job		1	24,317	24,317		
3.1.5	Exhaust Fitting	U Stripe 75 mm MS flat bar, MS Threaded Rod & SS Achor bolt for Fixing	Job		1	19,453	19,453		
3.2	EXHAUST SYSTEM (1X150KVA DG)								
3.2.1	Exhaust Silencer straight Pipe	MS Pipe bore 127mm (40 Schedule MS ERW Pipe)	Feet		25	1,181	29,527		
3.2.2	Exhaust Bends / Elbow with Flange	Long radius 90 deg L bow 127mm bore	Pcs		3	1,181	3,543		
3.2.3	Exhaust Flange	127mm bore MS Flange	Pcs		8	764	6,114		
3.2.4	Exhaust Insulation	Material - Rockwool, Thickness 50mm, jacketing material-Aluminium Sheet 26SWG thickness	Job		1	6,948	6,948		
3.2.5	Exhaust Fitting	U Stripe 75 mm MS flat bar, MS Threaded Rod & SS Achor bolt for Fixing	Job		1	5,211	5,211		
04	Cooling System:								
4.1	Radiator Ducting	As per layout with 20/22 SWG MS sheet, Angle bar, flat bar support, Canvas cloth etc							
				Sq-ft	700	278	194,533		
			Total (BDT):				459,862		
			Special Discount:				18,000		
			Grand Total (BDT)				441,862		

NOTE:
- DG CABLE TRENCH SUPPLY & INSTALLATION OUT OF THIS BOQ
- DG ROOM VENTILATION SYSTEM (INLET & EXIT) CLIENT SCOPE.

= 4 lac



[Signature]

CROSS WORLD POWER LIMITED
BOQ FOR FUEL LINE PIPING

Sl No.	Description	Unit	Qty	Unit Sale	Total Sale	Remarks
1	FUEL STORAGE TANK					
1.1	Fuel Pipe Ø37mm (inner), Seamless Mild Steel Pipe; Including Welding Joint, leak testing, outside Red-oxide & Enamel Painted.	Meter(Approx)	25	1,525	38,135	
1.2	Fuel/Water Separator Separ, SWK, 2000/18	Pcs	1	130,800	130,800	
1.3	Fuel Pump (Electric) 1Hp Brand: Pedrollo, Flow Rate up to 50 l/min	Pcs	1	18,167	18,167	
1.5	Fuel Pipe Plumbing works & Accessories Plumbing of fuel pipe with necessary fitting at delivery & refueling as per design.	Job	1	35,000	35,000	
1.6	Ball Valve MS, 1" dia (6 pc) and 1.5" dia (6 pc), made in china	Pcs	12	315	3,780	
1.7	Fuel Stainer	Pcs	1	3,543	3,543	
1.8	PVC Flexible Ring Hose Pipe Pipe bore 25.4mm.	Meter(Approx)	22	496	10,911	
1.9	Installation Charge	Job	1	26,887	26,887	
Total					267,222	



22.5 lac

(Signature)

CROSS WORLD POWER LIMITED

BOQ of 4X630KVA & 1X150KVA DG INSTALLATION

Client Name :- NDE STEEL STRUCTURE LTD

Address :-

Date: 30-10-2016

Gen Model:

Engine Model :

Alternator Model :

SL NO	JOB DESCRIPTION	TECHNICAL DETAILS/ BRAND	Scope of Supply	UOM	QTY	UNIT RATE	TOTAL RATE	REMARKS
1	Electrical System							
1.1	Power Cable (30°C Ambient on underground)	8X1C 240 mm N2XY DG-1 TO ATS		Meter	206			
		8X1C 240 mm N2XY DG-2 TO ATS			182			
		8X1C 240 mm N2XY DG-3 TO ATS			202			
		8X1C 240 mm N2XY DG-4 TO ATS			230			
		4X1C 95 mm N2XY DG-5 TO LT-6			160			
1.2	Power Cable Lugs	240 mm , Material -Copper , Surface-Electro Tinned		Pcs	70			
1.3	Control cable For Sensing	95 mm , Material -Copper , Surface-Electro Tinned		Pcs	10			
1.4	Communication Shield Cable	4 X 1.2 mm (40/0.19 mm) Flexible Cable		Coil	3			
1.5	PVC Flexible Pipe	2 X 1.2 mm		Meter	40			
1.6	Royal Bolt	1" dia		Coil	2			
1.7	PVC Tape	12 no		Pcs	36			
1.8	Heat Shrink Tube	Adhesive Tape 04, color (R-Y-B-B-G)		Pcs	24			
		For 24.0mm Power Cable						
		For 24.0mm Power Cable						
		For 24.0mm Power Cable						
		For 24.0mm Power Cable						
1.9	Cable Tie	L - 10"/12"		Pack	10			
1.10	Power Cable Laying	185mm N2XY & 95mm N2XY Power Cable Laying Excution Work By CWPL through Cable Drain		Meter	980			



Signature