

NED UNIVERSITY OF ENGINEERING & TECHNOLOGY

PROCUREMENT CELL





"Say No to Corruption"

Work Order

No. DP/COS-145950/8008/3072

Dated: 11-02-2022

M/s. Zonergy (Tianjin) Company Ltd. H No. 33/1/1, St. No. Off Khayaban-e-Shamshir Phase 5, DHA, Karachi

Sub:

Design, Supply, Installation, Testing and Commissioning of Solar System

with the Capacity of 100kWp Solar Power Solution on Main and Circulation

Library at NEDUET, Main Campus, Karachi

Ref:

PC/NED/DWS/Solar/8008/2021

It is informed that the Competent Authority of this University has been pleased to approve the award of work "Design, Supply, Installation, Testing and Commissioning of Solar System with the Capacity of 100kWp Solar Power Solution on Main and Circulation Library at NEDUET" as per terms & conditions and BOQ items of the bidding documents with total cost of **Rs. 10,059,725**/(inclusive of all federal and provincial taxes and duties) to your firm.

You are required to attend the Office of Directorate of Works & Services at the earliest to complete the requirements for executing the Contract Agreement and furnish the Performance Bond. You are further required to start the subject Work within 14 days from the date of receipt of this letter. The time for completion of work is Six (06) months. The date of commencement is **24-02-2022**.

You are advised to return the copy of this letter duly signed by you in token of acceptance of an undertaking the subject work as per terms and conditions and BoQ items mentioned in the above referred Tender Documents.

Director Procurement

1.112.2012

Copy to:

1. PA to VC

2. Dean ECE

3. Dr. Mohsin Aman Associate Professor (EED)

4. DWS

5. DF

6. RA

No.	ITEM(s)	Description	Unit	Qty	Total Price	REMARKS	
		Solis 50kw 5G	Nos.	2	640,500	724	
2	String Inverter	Solis wifi stick	Nos.	1	28,350		
2	Datalogger Weather Station	WMS capable of monitor, recording, with desktop or mobile app having solar irradiation sensor, ambient temperature sensor, relative humidity, UV index and wind speed monitor. The overall system will help in calculation of PR of the system.	Nos.	1	210,000		
	Energy Meter	Solis Smart meter	Nos.	1	36,750	Je Li	
2	PV Module	JA/Zonergy 540W Half Cut Mono-Crystalline panel	Nos.	186	5,273,100		
4	Standard L2 Frame	Aluminium standard two panels Structure with Adjustable to 20 to 30 degree tilt without sharing legs (Aluminum L2 structure with anti- corrosive material of Galvanized paint Quality approval is required from Services Department (bear to wind speed of 150km/ hour at 3 sec gust.)	Pairs	93	576,965		
	Civil Works	Concrete pads for PV Roof mounting Shed Type Structure. One concrete pad dimension but not limited to = L*W*H ft =12"*12"*6" with Wedge anchors reinforcement	Nos.	372	171,376	1 09	
5	Distribution Boxes				-		
5a	DC Distribution Box	IP20 GI DB for each inverter for placing DC Strings Expected size but not limited to W*H*D ft = 2*1*0.6 Wall Mount, Single door with lock and with complete fitting scheme/railing for DC breakers. Number of DC Breakers 06*16A, 2-pole	Nos.	2	7,371	Zoenergy 15pole DB	
5b	AC Combiner Cabinet	IP20 galvanized iron AC Combiner Cabinet for combining AC outputs of 2 inverters The size of cabinet: W*H*D ft = (3*3.5*1.5) Gauge: 16 AWG, Color: White, Mounting Type = Wall Mount Details of breakers and SPD to be inhoused in cabinet: Number of circuit breakers = 02 nos * @ MCCB 400VAC 100A 4P 400VAC 200A 4P 4P 60KA Parallel Operation Copper Bus Bar Specs: Copper bus bar current bearing capacity = 250A Isolators to place 4 copper bus bars at different heights Other spees: RYB Indicator, Digital Ammeter and Voltmeter = Yes, AC Grounding bus bar = Yes (length , DC Grounding bus bar = Yes Cabinet Door Type = Single door with lock , Breather Vent = Yes (On Both sides of cabinet) Input conduit knockout size = 2" (Input Conduits Nos = 3 at the left bottom side of cabinet with PVC glands), Output conduit knockout size = 4"(Output conduit Nos = 1 at the right bottom side of cabinet with PVC glands) With complete fitting scheme, railing and isolators etc. for placing AC breakers & AC SPDs	Nos.	1	85,995		
	DB Box for Energy Meter	Energy meter box, 16 gauge DB with proper earthing and provision of seeing smart energy meter from the glass cover for units recording. The Db must be protected against all weather conditions.	Nos.	1	3,071		NO2

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7/1

12	Installation & Commissioning Charges				-		
12a	Total project execution cost	Complete project installation and commissioning charges till handover of the project to client	Job.	1	185,086		1
	Roof testing report	To be arranged by the bidder at his own cost, if required.	The W		-		
e)()	Contractor's office at site	The Contractor shall provide and maintain an office at the site. Such office shall be opened during working hours/ at all reasonable hours to receive instruction, notices and / or other communications etc. on its behalf from NED. The location of the office shall be provided by NED.	Year	1	429,975		
13	MISC	Cable ties, anchor bolts, pvc tapes, steel and PVC clamps, pvc pipes, small de earthing point DB, thimbles, connectors etc	Job.	1	61,695		
14	Net metering charges	Complete Net Metering Charges	Job.	1	153,621	/	
		Total Price (PKR)		/	10,059,725	/	

In Word(PKR)s: Ten Million Fifty-Nine Thousand Seven hundred Twenty-Five Only.

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6	Brooken CDDs 0 7 1 1 1			/		
	Frence, St Ds & Lighting Afresto	Dr ·	/	T		
6		Fuses1000VDC 16A			-	
6t	DC SPD	DC SPD 1000VDC 2P 40KA	Nos.	20	8,10	0
60	Inverter AC Output Breaker	MCCB 400 VAC 100A 4P	Nos.	0	0,10	0
	Inverter Combiner Output Breaker	MCCB 400VAC 200A 4P	Nos.	2		0
6e	AC SPD	AC SPD 4P 400VAC 60KA	Nos.	1	10,72	
6f	Lighting Arrestor		Nos.	1	9,82	
6g		Copper lighting arrestor	Nos.	2		
7	Electrical Wires	IP68 Mechanical AC Disconnect Switch for Netmetering purpose	Nos.	1	42,998 30,713	_
7a		III a constant		11	30,71.	
		1*4mm Sq. DC Flexible Wire 1000VDC (armoured) PVC/PVC	mtr.	800		
oso S	AC Wire from Inverter to AC Combiner Cabinet	4*35mm Sq. Cu/XLPE/PVC AC cable	100	1	1,130,220	
7c	termination	4*70mm Sq. Cu/XLPE/PVC AC cable	mtr.	25	82,310	
7d	grounding solar palier	PVC 1*4mm Sq. AC Flexible Wire	mtr.	15	89,650	
7d	AC Wire for grounding solar structure	PVC 1*10mm Sq. AC Flexible Wire	mtr.	90	12,604	
7e	AC Wire for Inverter grounding	PVC 1*10mm Sq. AC Flexible Wire	mtr.	90	23,882	
7f	Copper Bare conductor		mtr.	45	11,941	71
8	Pipes & Ducts	10mm Sq (From lighting arrestor to DC grounding point)	mtr.	120		
	1, 2, 19, 19, 50, 50	16AWG Galvanized Iron perforated with 1992 and 1992	11111	120	28,010	
8a	Cable Tray for AC & DC Cabling	16AWG Galvanized Iron perforated with cover lid for laying DC Wires to Inverter Room Size but not limited to: HxW= 4" x 3" PVC	mtr.	40	72,482	
28	PVC Pipe 1"	I" Dia PVC Pipe for lighting arrestor grounding wire till respective earthing point and DC and earthing wire			72,402	1
	UPVC Pipe 3"	3" Dia UPVC Pipe for under ground wire For DC wire from Building to termination	mtr.	100	18,428	
8b	PVC Coated flexible pipe (G3) for outdoor use	2.5" for external PV wire laying	mtr.	70	55,897	-
	PVC Coated flexible pipe	3" Flexible pipe PV wire laying to connect two buildings	mtr.	45	12,991	
8c	MC4 connectors	IP67/IP68 for PV stringing	mtr.	10		The same of
9	Inland Transportation	a control for the stringing	nos.	55	3,808 10,135	
	Complete transportation for PV modules, Iron PV				10,135	
9a	frames, inverters, balance of system (wire coils, breakers, DBs etc.)	Complete system transportation from installation to commissioning from warehouse to site and other.	Job.	1	61,695	
10	Lighting arrestor Earthing	DC Eathing Pit along with complete Material for < 1 ohm earth resistance (Rating: 20-40 feet Depth, Earth Pits including copper bonded steel earth electrodes, 40 feet long and 19.07 mm nominal dia, bare copper conductor, 20-40ft	Job.	2	61,425	
10	DOT	DC Eathing Pit along with complete Material for < 1 ohm earth resistance		14 50L	01,425	
11		AC Earthing Pit along with complete Material for < 1 ohm earth resistance	Job.	1	30,713	
			Job.	1	30,713	
	Solar Panel cleaning	A high-pressure washer, make Karcher HDS 10/20-4M equivalent or higher model, water-driven brush head with 800 mm working width works with two contra-rotating disc brushes.	Job.	1	184,275	
	Water Tank At Roof	above system must be equipped with all pipes compatible with high pressure washer and brusher and other accessories required to clean olar panels up to 10m or more of length. The supplier must install and demonstrate the cleaning on site.	Job.	2	122,850	
7	Trench,Excavation and backfilling	3 x 3 ft (from building to main termination)		70		

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		Price Schedule in PAK Rupees				
10.	ITEM(s)	Description	Unit	Qty	Total Price	REMARKS
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		Solis Smart meter	Nos.	1	36,750	
	Energy Meter	[2] 表 1	Nos.	186	5,273,100	1. 11.22
4	PV Module Standard L2 Frame	JA/Zonergy 540W Half Cut Mono-Crystalline panel Alumunium standard two panels Structure with Adjustable to 20 to 30 degree tilt without sharing legs (Aluminum L2 structure with anti- corrosive material of Galvanized paint Quality approval is required from Services Department (bear to wind speed of 150km/ hour at 3 see gust.)	Pairs	93	576,965	
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	DB Box for Energy Meter	Energy meter box, 16 gauge DB with proper earthing and provision of seeing smart energy meter from the glass cover for units recording. The Db must be protected against all weather conditions.	Nos.	1	3,07	1



SINDH PUBLIC PROCUREMENT REGULATORY AUTHORITY

CONTRACT EVALUATION FORM

TO BE FILLED IN BY ALL PROCURING AGENCIES FOR PUBLIC CONTRACTS OF WORKS, SERVICES & GOODS

		NED UNIVERSITY					
1)	NAME OF THE ORGANIZATION / DEPTT.						
2)	PROVINCIAL / LOCAL GOVT./ OTHER	PROVINCIAL					
3)	TITLE OF CONTRACT	Design, Supply, Installation, Testing and Commissioning etc					
4)	TENDER NUMBER	PC/NED/DWS/Solar/8008/2021					
5)	BRIEF DESCRIPTION OF CONTRACT	Design, Supply, Installation, Testing and Commissioning etc					
6)	FORUM THAT APPROVED THE SCHEME	Syndicate					
7)	TENDER ESTIMATED VALUE 11.00 MILLION						
8)	ENGINEER'S ESTIMATE (For civil works only)						
9)	ESTIMATED COMPLETION PERIOD (AS PI	ER CONTRACT)					
10)	TENDER OPENED ON (DATE & TIME)	11-01-2022 dated: 10:00 AM					
11)	NUMBER OF TENDER DOCUMENTS SOLD (Attach list of buyers)	01					
12)	NUMBER OF BIDS RECEIVED	01					
13)	NUMBER OF BIDDERS PRESENT AT THE	TIME OF OPENING OF BIDS 01					
	BID EVALUATION REPORT (Enclose a copy)	PROVIDED					
15)	NAME AND ADDRESS OF THE SUCCESSFO	UL BIDDER M/s. Zonergy (Tianjin) Company Ltd.					
16)	CONTRACT AWARD PRICE	Rs. 10,059,725/-					
17)	RANKING OF SUCCESSFUL BIDDER IN EV (i.e. 1^{st} , 2^{nd} , 3^{rd} EVALUATION BID).	ALUATION REPORT Most Advantageous					
18)	METHOD OF PROCUREMENT USED : - (Tic	k one)					
	a) SINGLE STAGE – ONE ENVELOPE	PROCEDURE YES Domestic/ Local					
	b) SINGLE STAGE – TWO ENVELOPE	PROCEDURE					
	c) TWO STAGE BIDDING PROCEDUR	E					
	d) TWO STAGE – TWO ENVELOPE BI	DDING PROCEDURE					
	PLEASE SPECIFY IF ANY OTHER EMERGENCY, DIRECT CONTRACTING	METHOD OF PROCUREMENT WAS ADOPTED i.e					

		Vice Chancellor
19)	APPROVING AUTHORITY FOR AWARD OF CONTR.	ACT
20)	WHETHER THE PROCUREMENT WAS INCLUDED I	N ANNUAL PROCUREMENT PLAN? Yes No
21)	ADVERTISEMENT:	
	i) SPPRA Website (If yes, give date and SPPRA Identification No.)	Yes T00553-21-0057
	ii) News Papers (If yes, give names of newspapers and dates)	Yes Daily Dawn, Daily Jang & Awami Awaz dated: 26-10-2021
		No
22)	NATURE OF CONTRACT	Domestic/ Local
23)	WHETHER QUALIFICATION CRITERIA WAS INCLUDED IN BIDDING / TENDER DOCUMEN (If yes, enclose a copy)	Yes V No No
24)	WHETHER BID EVALUATION CRITERIA WAS INCLUDED IN BIDDING / TENDER DOCUMEN (If yes, enclose a copy)	Yes No No
25)	WHETHER APPROVAL OF COMPETENT AUTHORI' METHOD OTHER THAN OPEN COMPETITIVE BIDE	TY WAS OBTAINED FOR USING A Ves No
26)	WAS BID SECURITY OBTAINED FROM ALL THE B	IDDERS? Yes V No
27)	WHETHER THE SUCCESSFUL BID WAS LOWEST E BID / BEST EVALUATED BID (in case of Consultancie	
28)	WHETHER THE SUCCESSFUL BIDDER WAS TECHN COMPLIANT?	NICALLY Yes No No
29)	WHETHER NAMES OF THE BIDDERS AND THEIR THE TIME OF OPENING OF BIDS?	QUOTED PRICES WERE READ OUT AT Yes No
30)	WHETHER EVALUATION REPORT GIVEN TO CONTRACT?	BIDDERS BEFORE THE AWARD OF
	(Attach copy of the bid evaluation report)	Yes V No

31) ANY COMPLAINTS RECEIVED (If yes, result thereof)	Yes	
(A) yes, result meteory	N	No.
	No	NO
32) ANY DEVIATION FROM SPECIFICATIONS GIT (If yes, give details)		ENDER NOTICE / DOCUMENT
	Yes	
	No	NO
33) WAS THE EXTENSION MADE IN RESPONSE T (If yes, give reasons)	Yes	
	No	NO
34) DEVIATION FROM QUALIFICATION CRITERI	and the second s	
(If yes, give detailed reasons.)	Yes	
	No	NO
35) WAS IT ASSURED BY THE PROCURING AC BLACK LISTED?	ENCY THAT	THE SELECTED FIRM IS NO Yes V No
36) WAS A VISIT MADE BY ANY OFFICER/OFFICE SUPPLIER'S PREMISES IN CONNECTION WIT BE ASCERTAINED REGARDING FINANCING (If yes, enclose a copy)	TH THE PROC	UREMENT? IF SO, DETAILS T
37) WERE PROPER SAFEGUARDS PROVIDED O THE CONTRACT (BANK GUARANTEE ETC.)?	N MOBILIZA	Yes No
38) SPECIAL CONDITIONS, IF ANY (If yes, give Brief Description)	Yes	
Zaero	No	NO
Signature & Official Stamp of Assistant Director Procured Assistant Director Procured Cell Procurement Cell NED University of Engage	rech	
NED numerated	The state of the s	

<u>SPPRA, Block. No.8, Sindh Secretariat No.4-A, Court Road, Karachi</u> Tele: 021-9205356; 021-9205369 & Fax: 021-9206291

Print Save Reset

Integrity Pact

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY THE SUPPLIERS/CONTRACTORS/CONSULTANTS.

Contract Number: PCNED DWS Salm 8008 Dated: 10/02/2022
Contract Value: Rs. 10, 059, 725 -
Contract Value: 15. 10, 051, 7251- Contract Title: Design Supply Installation, lesting and Commission etc
[Name of Supplier/Contractor/Consultant] hereby declares that it has not obtained or induced
the procurement of any contract, right, interest, privilege or other obligation or benefit from
Government of Sindh (GoS) or any administrative subdivision or agency thereof or any other
entity owned or controlled by it (GoS) through any corrupt business practice.
My Conessy.
Without limiting the generality of the foregoing, [Name of Supplier/Contractor/Consulant]
represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or
payable to anyone and not given or agreed to give and shall not give or agree to give to
anyone within or outside Pakistan either directly or indirectly through any natural or juridical
person, including its affiliate, agent, associate, broker, consultant, director, promoter,
shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or
kickback, whether described as consultation fee or otherwise, with the object of obtaining or
inducing the procurement of a contract, right, interest, privilege or other obligation or benefit,
in whatsoever form, from Procuring Agency (PA), except that which has been expressly
declared pursuant hereto.
MIS. Loner Sy.
[Name of Supplier/Contractor/Consultant] certifies that it has made and will make full
disclosure of all agreements and arrangements with all persons in respect of or related to the
transaction with PA and has not taken any action or will not take any action to circumvent the
above declaration, representation or warranty.
[Name of Supplier/Contractor/Consultant] accepts full responsibility and strict liability for
[Name of Supplier/Contractor/Consultant] accepts full responsibility and strict liability for
making any false declaration, not making full disclosure, misrepresenting facts or taking any
action likely to defeat the purpose of this declaration, representation and warranty. It agrees
that any contract, right, interest, privilege or other obligation or benefit obtained or procured
as aforesaid shall, without prejudice to any other right and remedies available to PA under
any law, contract or other instrument, be voidable at the option of PA.
Notwithstanding any rights and remedies exercised by PA in this regard
Notwithstanding any rights and remedies exercised by PA in this regard, [Name of Supplier/Contractor/Consultant] agrees to indemnify PA for any loss or damage incurred by it on
frame of publication and an arranged of the out

account of its corrupt business practices and further pay compensation to PA in an amount

equivalent to ten time the sum of any commission, gratification, bribe, finder's fee or kickback given by [Name of Supplier/Consultant] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or

[Procuring Agency]

benefit, in whatsoever form, from PA.

[Supplier /Contractor/Consultant]