

# TECHNICAL EVALUATION REPORT

(As per Rule 35 of PP Rules 2004)

1	Name of Procuring Agency:	Karachi Port Trust
2	Method of Procurement:	Notice for tender invitation through news paper published in Daily the Express Tribune, daily Jang on 08.09.2024 and KPT & PPRA websites on 12.09.2024 under PPRA rule 36(b) i.e. single stage two envelope.
3	Title of Procurement:	Solarization of KPT Head Office: supply installation & commissioning of 650 KW on-grid solar system at KPT Head Office.
4	Tender Inquiry No:	E-03/2024
5	PPRA Ref. No (TSE):	TS547445E
6	Date & Time of Bid Closing:	21-10-2024 at 11:00 hrs
7	Date & Time of Bid Opening:	21-10-2024 at 11:30 hrs
8	No of Bids Received:	08 Nos
9	Criteria for Bid Evaluation:	As per TEC
10	Details of Bid(s) Evaluation:	Given Below

Name of Bidder	Technical Marks	Rule/ Regulation/SBD/policy /Basis for Rejection/ Acceptance as per Rule 35 of PP Rules,2004
M/s Wateen Solutions (Pvt) Ltd	<b>94.5 Marks</b> Weightage= 66.15 out of 70	Qualified
M/s Ideal Power Solutions (Pvt) Ltd JV with M/s Ningbo Green Light Energy (Pvt) Ltd & M/s Manjhi Construction (Pvt) Ltd	<b>98 Marks</b> Weightage= 68.6 out of 70	Qualified
M/s Surge Energies (Pvt) Ltd	<b>90 Marks</b> Weightage=63 out of 70	Qualified
M/s Creative Electronics (Pvt) Ltd	<b>57 Marks &lt; Minimum qualifying marks</b>	Disqualified
M/s Direct Energy (Pvt) Ltd	Not evaluated due to non compliance of mandatory conditions	Disqualified
M/s Asad Construction & Engineering JV with M/s Pine Energy & M/s Keller Engineering Technical Solution (Pvt) Ltd	Not evaluated due to non compliance of mandatory conditions	Disqualified
M/s A&A Enterprises	Not evaluated due to non compliance of mandatory conditions	Disqualified
M/s Base Ten International (BTI)	Not evaluated due to non compliance of mandatory conditions	Disqualified

11. Any other additional / supporting information, the procuring agency may like to share.

Attached

Signature:.....  Dy. Chief Electrical Engineer (O&M)

TEC Convener **Karachi Port Trust**

Official Stamp:.....

KARACHI PORT TRUST  
DCEE S&C SECTION  
IR: 890  
DATE: 12/12/24  
Berth No. 7, Keamari Karachi

KARACHI PORT TRUST  
DCEE S&C SECTION  
Berth No. 10, Keamari, Karachi

IR: NO: 1549  
DATED: 10-12-24

No.(M)/Elect/ 191  
Dated 10-12-2024



Mech & Elect Engg Deptt.  
M.I. YARD , West Wharf,  
Karachi

DY.CHIEF ELECT. ENGINEER(S&C)

AREE (4)  
10/12/24

**SUBJECT: SOLARIZATION OF KPT HEAD OFFICE: SUPPLY INSTALLATION & COMMISSIONING OF 650 KW ON-GRID SOLAR SYSTEM AT KPT HEAD OFFICE**

Reference:

CM&EE -II letter No. (M)/Elect/03/2024/338 dated 29-11-2024

In pursuance to the tender vide reference above, it is intimated that original file of subject case along with 08 offers submitted by participated i.e.

- i. M/s. Direct Energy (Pvt) Ltd
- ii. M/s. Asad Construction & Engineering
- iii. M/s. A&A Enterprises
- iv. M/s. Creative Electronics (Pvt) Ltd
- v. M/s. Wateen Solutions (Pvt) Ltd
- vi. M/s. Ideal Power Solutions (Pvt) Ltd
- vii. M/s. Base Ten International (BTI)
- viii. M/s. Surge Energies (Pvt) Ltd

Technical Evaluation Committee reviewed listed firms mandatory requirements along with Performa 'A&B'. The committee determined that five firms did not meet the mandatory tender requirements and TEC. As such, they will not be further considering due to following reasons.

**M/s. Direct Energy (Pvt) Ltd** has quoted financial amount of said tender in technical bid which is against the tender ethics.

**M/s. Asad Constructions & Engineering** does not provide copy of registration certificate from PPIB Board which is mandatory requirement of TEC.

**M/s. A&A Enterprises** does not submit pay order for bid/earnest money along with tender documents.

**M/s. Base Ten International (BTI)** has quoted financial amount of said tender in technical bid which is against the tender ethics.

**M/s. Creative Electronics (Pvt) Ltd** has failed to secure minimum qualifying marks (i.e. 70 Marks) required for TEC due to provision of only 1 contract of relevant work experience of solar work.

The following three firms meet mandatory TEC requirements and declared technically qualified, their financial bid may be opened.

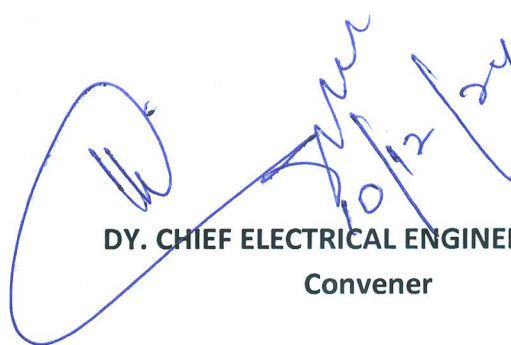
**M/s. Wateen Solutions (Pvt) Ltd**

**M/s. Ideal Power Solutions (Pvt) Ltd**

**M/s. Surge Energies (Pvt) Ltd**

**Enclosed:**

Subject Tender file (Original)  
Performa 'A&B' for bidders Comparisons  
Mandatory Requirements Comparisons  
BOQ Comparisons



**DY. CHIEF ELECTRICAL ENGINEER (O&M)**

**Convener**

**Copy To:**

**CMEE-II**

**GM (E)**

**SOLARIZATION OF KPT HEAD OFFICE: SUPPLY INSTALLATION & COMMISSIONING OF 650 KW ON-GRID SOLAR SYSTEM AT KPT HEAD OFFICE.**

**TECHNICAL EVALUATION REPORT**

1. It is submitted that with the approval of Competent Authority the subject tenders were invited through press advertisement under PPRa rule 36(b) (i.e. single stage two envelope procedure) and the same were published in the newspapers on 08-09-2024 and accordingly uploaded on KPT and PPRa websites. The last date of issue of tender was fixed on 20-10-2024. The pre bid meeting was held in the office of GM (E) on dated 30-09-2024. Tender Bid opened on 21-10-2024.

2. In response following eight bidders participated and submitted Technical offers.

- i. M/s. Direct Energy (Pvt) Ltd
- ii. M/s. Asad Construction & Engineering
- iii. M/s. A&A Enterprises
- iv. M/s. Creative Electronics (Pvt) Ltd
- v. M/s. Wateen Solutions (Pvt) Ltd
- vi. M/s. Ideal Power Solutions (Pvt) Ltd
- vii. M/s. Base Ten International (BTI)
- viii. M/s. Surge Energies (Pvt) Ltd

3. In this regards, first meeting of technical evaluation committee was held on 28-10-2024 at 10:00 hrs in the office of CM&EE-II. The meeting was chaired by CM&EE-II and following members attended the meeting.

- a) Dy.CEE(O&M)
- b) EE(West)
- c) Asst. Manager Finance



4. During the meeting the technical proposal reviewed by above technical committee and discusses the technical proposal.
5. The second meeting of the committee was held on 10:00hrs dated 30-10-2024 and all the committee members attended the meeting. During the meeting the technical proposal was reviewed by above technical committee and after detailed deliberations some discrepancies were observed regarding mandatory requirement of evaluation criteria and other terms & conditions and the same were forwarded to Dy.CEE(S&C) vide Dy.CEE(O&M) letter No.(M)/Elect/O&M/Solar/2024/156 dated: 31-10-2024 for following shortcoming clarification was asked from bidders to furnish.

**CLARIFICATIONS:**

**M/s. Asad Constructions & Engineering JV with M/s. Pine Energy & M/s. Keller Engineering Technical Solutions (Pvt) Ltd**

1.	Does not mention the responsibilities / liabilities of individual regarding technical and financial, decided in JV agreement.
2.	Does not provide relevant work experience contracts for Solarization work of 600KW or above system.
3.	Does not specify make of items / materials i.e. Panels, Inverters, Lighting arrestors, AC & DC breakers and cables in their BOQ as per KPT Scope of Work for said tender.
4.	Does not submit copy of registration certificate from PPIB Board in C1 category
5.	Does not submit documents for Terms & Conditions of Three Years Service Level Agreement for said tender.

**M/s. Creative Electronics (Pvt) Ltd**

1.	Does not provide relevant work experience contracts for Solarization work of 600KW or above system.
2.	Does not submit documents for Terms & Conditions of Three Years Service Level Agreement for said tender.



**M/s. Wateen Solutions (Pvt) Ltd**

1.	Does not specify make of items / materials i.e. Panels, Inverters, Lighting arrestors, AC & DC breakers and cables in their BOQ as per KPT Scope of Work for said tender.
2.	Does not provide valid PEC certificate. Kindly provide valid renewed PEC certificate.
3.	Does not submit documents for Terms & Conditions of Three Years Service Level Agreement for said tender.

**M/s. Ideal Power Solutions (Pvt) Ltd JV with M/s. Ningbo Green Light Energy (Pvt) Ltd & M/s. Manjhi Constructions (Pvt) Ltd**

1.	Does not mention the responsibilities / liabilities of individual regarding technical and financial, decided in JV agreement.
2.	Does not provide valid PEC certificate of M/s. Ningbo Green Light Energy (Pvt) Ltd. Kindly provide valid renewed PEC certificate.
3.	Does not submit documents for Terms & Conditions of Three Years Service Level Agreement for said tender.

**M/s. Surge Energies (Pvt) Ltd**

1.	Does not provide valid PEC certificate. Kindly provide valid renewed PEC certificate.
2.	Does not specify make of items / materials i.e. Panels, Inverters, Lighting arrestors, AC & DC breakers and cables in their BOQ as per KPT Scope of Work for said tender.
3.	In case of companies and firms, last 03 years financial statements are to be provided showing minimum average turnover of Rs 120 million.
4.	Does not submit documents for Terms & Conditions of Three Years Service Level Agreement for said tender.

6. In response above mentioned bidders submitted their clarifications for above shortcomings.

7. The third meeting of the committee was held on 18-11-2024 at 10:00hrs in the office of CM&EE-II and all committee members attended the meeting. The committee again discuss the response received from bidders and reviewed the mandatory conditions of evaluation criteria. The committee after detail deliberations and discussions produces following observations:



**OBSERVATIONS:**

- **M/s. Direct Energy (Pvt) Ltd**  
Above mentioned bidder has quoted financial amount of said tender in technical bid. Hence making M/s. Direct Energy (Pvt) Ltd, Non-responsive for said tender bid and does not evaluated further.
- **M/s. Asad Constructions & Engineering**  
Above mentioned bidder does not provide copy of registration certificate from PPIB Board which is a mandatory requirement for TEC of subject tender. Hence making M/s. Asad Constructions & Engineering, Non-responsive for said tender bid.
- **M/s. A&A Enterprises**  
Above mentioned bidder does not submit earnest money & tender document fee pay orders along with tender documents which mandatory requirement to participate in tender. Hence making M/s. A&A Enterprises, Non-responsive for said tender bid and does not evaluated further.
- **M/s. Base Ten International (BTI)**  
Above mentioned bidder has quoted financial amount of said tender in technical bid. Hence making M/s. Base Ten International (BTI), Non-responsive for said tender bid and does not evaluated further.
- **M/s. Creative Electronics (Pvt) Ltd**  
Above mentioned bidder has provided only 1 contract of relevant work experience as of subject tender while TEC minimum requirements for relevant work experience are 2 contracts.

8. Above observations again were forwarded to Dy. CEE(S&C) vide Dy. CEE(O&M) letter No. (M)/Elect/O&M/Solar/2024/176 dated: 18-11-2024 for further clarifications asked from responsive bidders to furnish.



9. The detailed evaluation of technical bid of 04 Nos. bidders as per evaluation criteria is given as under:

**1). MANDATORY REQUIREMENT:**

The firms should fulfill for the following mandatory requirement / condition and supporting documents should be submitted accordingly:

**CAUTION:** Non compliance of any Mandatory Conditions will leads rejection of bid and no further evaluation:-

S.No	Description	M/s. Creative Electronics (Pvt) Ltd	M/s. Wateen Solutions (Pvt) Ltd	M/s. Ideal Power Solutions (Pvt) Ltd	M/s. Surge Energies (Pvt) Ltd
1.	In case of companies and firms, last 03 years financial statements are to be provided showing minimum average turnover of Rs 120 million. OR In case of individuals / Sole proprietors, last 03 years tax returns filed with FBR are to be provided showing minimum turnover of Rs 120 million minimum on average for 03 years.	COMPLY at S.NO. 12	COMPLY at S.NO. 24	COMPLY at S.NO. 34	COMPLY at S.NO. 44 & 57
2.	Pakistan Engineering Council registration certificate for financial limit in Category C-4 technical categories EE-04, EE-11.	COMPLY at S.NO. 13	COMPLY at S.NO. 25 & 53	COMPLY at S.NO. 35a, 35b, 35c, 54	COMPLY at S.NO. 45 & 55
3.	Affidavit is to be submitted on Rs 100/- stamp paper mentioning therein that the firm has not been black listed by any Government / Semi Government / Autonomous / Semi Autonomous body.	COMPLY at S.NO. 14	COMPLY at S.NO. 26	COMPLY at S.NO. 36	COMPLY at S.NO. 46
4	Copy of certificate of NTN, GST, SRB & fresh copy of Active tax payer list (ATL).	COMPLY at S.NO. 15	COMPLY at S.NO. 27	COMPLY at S.NO. 37a, 37b, 37c	COMPLY at S.NO. 47
5.	The bidder shall submit their bid on original tender documents duly filled with each page signed and stamped against each column as token of acceptance.	COMPLY	COMPLY	COMPLY	COMPLY
6.	Copy of registration Certificate from private power & infrastructure board (PPIB) in C1 category.	COMPLY at S.NO. 16	COMPLY at S.NO. 28	COMPLY at S.NO. 38a, 38b, 38c	COMPLY at S.NO. 47

110



**II). TECHNICAL REQUIREMENT**

Minimum Qualifying Marks =70% in each category  
The points / marks shall be given in the following manners:

**Summary of marks / points**

Category	Maximum point / marks	To qualify Minimum points to be scored separately in each category
a. Status of firm	10	7 i.e 70% of 10 marks
b. Professional Capability	30	21 i.e 70% of 30 marks
c. Relevant Experience	40	28 i.e 70% of 40 marks
d. Financial	20	14 i.e 70% of 20 marks
<b>Total</b>	<b>100</b>	<b>70 i.e 70% of 100 marks</b>

S.No.	Description	MARKS	M/s. Creative Electronics (Pvt) Ltd	M/s. Wateen Solutions (Pvt) Ltd	M/s. Ideal Power Solutions (Pvt) Ltd	M/s. Surge Energies (Pvt) Ltd
a.	<b>STATUS OF FIRM : (Max. marks-10) (Min marks 07)</b>					
	i). Private Limited / corporation . Partnership . Proprietor	05 marks 04 marks 3.5 marks	<u>05 Marks</u> at S.NO. 15	<u>05 Marks</u> at S.NO. 27	<u>05 Marks</u> at S.NO. 39	<u>05 Marks</u> at S.NO. 47
	ii). Completion of 05 years of firm established Completion of 04 years of firm established Completion of 03 years of firm established . Below 03 years of firm established (Evidence to be provided)	05 marks 04 marks 3.5 marks 00 marks	<u>05 Marks</u> after S.NO. 15	<u>05 Marks</u> after S.NO. 27	<u>05 Marks</u> at S.NO. 37(a,b,c)	<u>05 Marks</u> at S.NO. 47
	<b>Total</b>	<b>10 Marks</b>	<b>10 Marks</b>	<b>10 Marks</b>	<b>10 Marks</b>	<b>10 Marks</b>

b. <b>PROFESSIONAL CAPABILITY</b> (Max. marks-30) (Min marks 21)	<b>MARKS</b>	M/s. Creative Electronics (Pvt) Ltd	M/s. Wateen Solutions (Pvt) Ltd	M/s. Ideal Power Solutions (Pvt) Ltd	M/s. Surge Energies (Pvt) Ltd
<p>i). <b>Managerial staff. ( 10 Marks)</b></p> <ul style="list-style-type: none"> <li>• Director / Controller (10 years experience)</li> <li>• Manager Engineering (05 years experience)</li> <li>• Manager Finance (05 years experience)</li> </ul> <p>ii). <b>Technical staff. ( 10 Marks)</b></p> <p>Provide detail of technical staff involved in Solar installation work:</p> <p>Electrical / Electronic / Mechatronics Engineer having 05-10 years experience.</p> <p>Electrical / Electronic / Mechatronics Engineer having 03-05 years experience.</p> <p>Electrical / Electronic / Mechatronics Engineer having 01-03 years experience.</p> <p>iii). <b>Work Facility (10 marks)</b></p> <p>Detail to be provided methodology of Solar repairing workshop facility, fully equipped with machine &amp; tools required for subject work having following accessories.</p> <ul style="list-style-type: none"> <li>▪ Online facility 24/7 diagnosing fault.</li> <li>▪ Air compressor</li> <li>▪ Pneumatic tools</li> <li>▪ Plate bending machine</li> <li>▪ Welding plant</li> <li>▪ Shaper grinding machine</li> <li>▪ Electric grinders</li> <li>▪ Tools for fabrication work</li> <li>▪ List of safety equipment such as helmet safety goggles hand gloves etc will carry.</li> </ul>	<p>10 marks</p> <p>08 marks</p> <p>07 marks</p> <p>10 marks</p> <p>8.5 marks</p> <p>07 marks</p>	<p><u>10 Marks</u> at S.NO. 17</p> <p><u>10 Marks</u> at S.NO. 18</p>	<p><u>10 Marks</u> at S.NO. 29</p> <p><u>8.5 Marks</u> at S.NO. 29</p>	<p><u>10 Marks</u> at S.NO. 40</p> <p><u>10 Marks</u> at S.NO. 40</p>	<p><u>10 Marks</u> at S.NO. 48</p> <p><u>07 Marks</u> at S.NO. 48</p>
	<b>Total</b>	<b>27 Marks</b>	<b>24.5 Marks</b>	<b>28 Marks</b>	<b>24 Marks</b>

*me*

<p>c. <b>RELEVANT EXPERIENCE OF SOLARIZATION WORK.</b> Max. marks -40 (Min marks 28)</p>	<p><b>MARKS</b></p>	<p>M/s. Creative Electronics (Pvt) Ltd</p>	<p>M/s. Wateen Solutions (Pvt) Ltd</p>	<p>M/s. Ideal Power Solutions (Pvt) Ltd</p>	<p>M/s. Surge Energies (Pvt) Ltd</p>
<p>Give reference to (documentary proof) in.</p> <ul style="list-style-type: none"> <li>▪ 05 contracts for Solar Installation work 600KW or above.</li> <li>▪ 03 contracts for Solar Installation work 600KW or above.</li> <li>▪ 02 contracts for Solar Installation work 600KW or above.</li> </ul>	<p>40 marks  30 marks  28 marks</p>	<p><b>00 Marks</b> (Provided only 01 Contract for solar work )</p>	<p><b>40 Marks</b> at S.NO. 30 &amp; 59</p>	<p><b>40 Marks</b> at S.NO. 41 &amp; 60</p>	<p><b>40 Marks</b> at S.NO. 50</p>
<p>d. <b>FINANCIAL SOUNDNESS</b> (Max. marks-20)</p>					
<p><b>Turnover.</b>  140 Million and above. 130 Million and less than 140 Million. 120 Million and less than 130 Million. Below 120 Million.</p>	<p>20 marks 16 marks 14 marks 00 marks</p>	<p><b>20 Marks</b> at S.NO. 12 &amp; 20</p>	<p><b>20 Marks</b> at S.NO. 24</p>	<p><b>20 Marks</b> at S.NO. 34</p>	<p><b>16 Marks</b> at S.NO. 44 &amp; 57</p>
<p><b>Grand Total (a+b+c+d)</b></p>		<p><b>57 Marks</b> 57 Marks &lt; 70 Marks i.e. Minimum qualifying marks</p>	<p><b>94.5 Marks</b></p>	<p><b>98 Marks</b></p>	<p><b>90 Marks</b></p>
<p>Technical Score = <math>\frac{\text{Bidder's Technical Score}}{\text{Total Technical Score}} \times 70</math></p>			<p><math>\frac{94.5}{100} \times 70</math> 66.15 Score</p>	<p><math>\frac{98}{100} \times 70</math> 68.6 Score</p>	<p><math>\frac{90}{100} \times 70</math> 63 Score</p>

**RECOMMENDATIONS:**

The technical evaluation committee reviewed the technical proposal and after detailed deliberation and discussion unanimously recommended that:

05 Nos. firms i.e.:

**M/s. Direct Energy (Pvt) Ltd** has quoted financial amount of said tender in technical bid

**M/s. Asad Constructions & Engineering** does not provide copy of registration certificate from PPIB Board

**M/s. A&A Enterprises** does not submit pay order for bid/earnest money along with tender documents

**M/s. Base Ten International (BTI)** has quoted financial amount of said tender in technical bid

**M/s. Creative Electronics (Pvt) Ltd** has failed to secure minimum qualifying marks (i.e. 70 Marks) required for TEC due to provision of only 1 contract of relevant work experience of solar work.

Hence above five firms does not meet mandatory TEC & tender requirements therefore does not evaluated further.

03 Nos. firms i.e.:

**M/s. Wateen Solutions (Pvt) Ltd**


**M/s. Ideal Power Solutions (Pvt) Ltd**

**M/s. Surge Energies (Pvt) Ltd**

Above three firms meet mandatory TEC requirements and declared technically qualified, their financial bid may be opened.

  
ASSTT MANAGER FINANCE  
Member

  
ELECTRICAL ENGINEER (WEST)  
Member

  
DY. CHIEF ELECTRICAL ENGINEER (O&M)  
Convener

**KARACHI PORT TRUST  
MECH. & ELECT. ENGR DEPTT.**

**TECHNICAL BID**

**SCOPE OF WORK / BILL OF QUANTITY**

**SOLARIZATION OF KPT HEAD OFFICE: SUPPLY INSTALLATION &  
COMMISSIONING OF 650 KW ON-GRID SOLAR SYSTEM AT KPT HEAD OFFICE.**

S. NO	READ AS		M/s. Wateen Solutions (Pvt) Ltd	M/s. Ideal Power Solutions (Pvt) Ltd	M/s. Surge Energies (Pvt) Ltd
	DESCRIPTIONS OF WORK	QTY	At S.No. 52	At S.No. 42	At S.No. 56
1.	<b>Solar Panel :</b> Supply / providing of Tier-1, Grade-A, 580W to 600W, Monoperc, Half cut, HIMO6, N type of reputable make as per international standard, IEC61215, IEC61730, ISO9001, ISO14001, ISO45001	1120 Nos.	Comply  make Jinko	Comply  make Jinko/Longi	Comply  make Jinko/Longi/ Sunova
2.	<b>Inverter :</b> Supply / providing of Tier-1, Grade-A, on grid 125KW Inverter of reputable make as per international standard IEC62109, IEC61727, IEC62116, IEC60068, IEC61683, IEC61000-6-2, IEC61000-6-4	02 Nos.	Comply  make SunGrow	Comply  make SunGrow	Comply  make Canadian Solar/Growatt/ Sofar
3.	<b>PV Diesel Controller:</b> Supply / providing of PV Diesel Genset Controller for Synchronization of Solar with Genset of reputable make as per international standard.	01 Compl ete job	Comply  make Encombi	Comply  make Elum	Comply  make Comap (made in Italy)
	<b>Wifi Dongle:</b> Supply / providing of Wifi Dongle of reputable make as per international standard.	01No.	Comply  Reputable make	Comply  make SunGrow	Comply  Built-in data logger from manufacturer of inverter

			M/s. Wateen Solutions (Pvt) Ltd	M/s. Ideal Power Solutions (Pvt) Ltd	M/s. Surge Energies (Pvt) Ltd
5.	<b>Lighting Arrestors:</b> Supply / providing of Copper Lighting arrestors (Height=1m) Origin = Imported	01 Compl ete job	Comply  Make Seris	Comply  Make TOPBAS ESE Air terminals	Comply  Local made
6.	<b>AC / DC Earthing:</b> Supply / providing of Copper Rod with Earthing Powder with Boring at less than 5 ohms (upto 25ft) for AC/DC Earthing Pits of lighting arrestors, Solar Panels & Inverters.	03 Job	Comply	Comply	Comply
7.	<b>M.S. Elevated Structure:</b> (Height of Front pole: 09' & Back pole: 12' Tilt: 5 degrees) With Industrial Paint & Supporting materials	01 job as per site requireme nt	Comply  Local	Comply  Local	Comply  Local
	Supply / providing of MS pipe 95mm size 14-gauge thickness		Comply  Local	Comply  Local	Comply  Local
	Supply / providing of MS girder 5"x2.5" size 14- gauge (2.2 to 2.5mm) thickness		Comply  Local	Comply  Local	Comply  Local
	Supply / providing of MS top plate 8"x8" size 8mm thickness		Comply  Local	Comply  Local	Comply  Local
	Supply / providing of MS base plate 4"x4" size 4mm thickness		Comply  Local	Comply  Local	Comply  Local
	Supply / providing of MS square pipe 1"x2" size 18- gauge thickness (for walkway & ladder)		Comply  Local	Comply  Local	Comply  Local
	Supply / providing of Aluminum T & Z clamps		Comply  Local	Comply  Local	Comply  Local

			M/s. Wateen Solutions (Pvt) Ltd	M/s. Ideal Power Solutions (Pvt) Ltd	M/s. Surge Energies (Pvt) Ltd
8.	<b>BoS (Balance of System):</b> Providing of AC Cable 90mm <sup>2</sup> , 4 core Copper Wire PVC insulated make Pakistan Cables / Fast Cables or equivalent (from Inverter to AC Combiner Cabinet)	60 meters	Comply  Pakistan/Fast Cable	Comply  Pakistan Cable	Comply  Pakistan/Fast Cable
	Providing of AC Cable 300mm <sup>2</sup> , 4 core Copper Wire PVC insulated make Pakistan Cables / Fast Cables or equivalent (from AC Combiner Cabinet to DB)	60 meters	Comply  Pakistan/Fast Cable	Comply  Pakistan Cable	Comply  Pakistan/Fast Cable
	Providing of AC Cable 50mm <sup>2</sup> , single core Copper Wire PVC Green insulated make Pakistan Cables / Fast Cables or equivalent (for earth pits)	60 meters	Comply  Pakistan/Fast Cable	Comply  Pakistan Cable	Comply  Pakistan/Fast Cable
	Providing of AC Cable 25mm <sup>2</sup> , single core Copper Wire PVC Green insulated make Pakistan Cables / Fast Cables or equivalent (for lighting arrestors)	90 meters	Comply  Pakistan/Fast Cable	Comply  Pakistan Cable	Comply  Pakistan/Fast Cable
	Providing of AC Cable 10mm <sup>2</sup> , single core Copper Wire PVC Green insulated make Pakistan Cables / Fast Cables or equivalent (for Inverter grounding)	270meter	Comply  Pakistan/Fast Cable	Comply  Pakistan Cable	Comply  Pakistan/Fast Cable
	Providing of AC Cable 2.5mm <sup>2</sup> , single core Copper Wire PVC Green insulated make Pakistan Cables / Fast Cables or equivalent (for grounding solar panels)	180 meter	Comply  Pakistan/Fast Cable	Comply  Pakistan Cable	Comply  Pakistan/Fast Cable
	Providing of DC Flexible Wire 4mm <sup>2</sup> , single core 1000VDC Copper Wire XLPO insulated make Pakistan Cables / Fast Cables or equivalent (for wiring of solar panels)	4000 meter	Comply  Pakistan/Fast Cable	Comply  Pakistan Cable	Comply  Pakistan/Fast Cable

		<b>M/s. Wateen Solutions (Pvt) Ltd</b>	<b>M/s. Ideal Power Solutions (Pvt) Ltd</b>	<b>M/s. Surge Energies (Pvt) Ltd</b>
Providing of AC Breakers 200A, MCCB, 400VAC 4-Pole make Terasaki, ABB or equivalent. (for inverter AC output supply)	1000 meter	Comply Schneider/ABB	Comply Terasaki/ABB	Comply Terasaki/ABB/ Schneider
Providing of AC Breakers 400A, MCCB, 400VAC 4-Pole make Terasaki, ABB or equivalent. (for combining AC output of inverters)	29 Nos	Comply Schneider/ABB	Comply Terasaki/ABB	Comply Terasaki/ABB/ Schneider
Providing of AC SPD 4-Pole 400VAC 60KA make Terasaki, ABB or equivalent.	3Nos	Comply Schneider/ABB	Comply Terasaki/ABB	Comply Terasaki/ABB/ Schneider
Providing of DC Breakers/DC fuses 16A, MCB 1000VDC 2-Pole make Terasaki, ABB or equivalent. (for panels)	1 No	Comply Schneider/ABB	Comply Terasaki/ABB	Comply Terasaki/ABB/ Schneider
Providing of DC SPD 1000VDC 2-Pole 40KA make Terasaki, ABB or equivalent.	2 Nos	Comply Schneider/ABB	Comply Terasaki/ABB	Comply Terasaki/ABB/ Schneider
Providing of AC Combiner Cabinet of GI IP-20 reputable make for combining AC outputs of inverters, Size: WxHxD=6'x6'x3' Gauge: 18AWG with indication lamps, Digital Energy Analyzers, Volt & Ammeter and with all necessary railings & fittings etc as per site requirements.	1 Lot	Comply As per tender	Comply As per tender	Comply As per tender
Providing of DC Distribution Boxes of GI IP-20 reputable make for each inverter for placing DC strings, Size: WxHxD=2.5'x2.5'x1' with indication lamps, Digital Volt & Ammeter and with all necessary railings & fittings etc as per site requirements.	01 job	Comply As per tender	Comply As per tender	Comply As per tender
Providing of Misc. Items e.g.: Cable Tray GI 16 SWG with 18 SWG cover. Accessories (MC4 connectors, Cable ties, conduit, anchor bolts, PVC flexiable pipes & clamps, PVC tapes, thimbles etc).		Comply As per tender	Comply As per tender	Comply As per tender



			M/s. Wateen Solutions (Pvt) Ltd	M/s. Ideal Power Solutions (Pvt) Ltd	M/s. Surge Energies (Pvt) Ltd
9.	<b>Supply &amp; Installation of New LT Panels:</b> Supply & Installation of Two New LT Panels designed according to existing LT scheme and integration of solar power at Old & New building blocks of Head Office.	01 Job	Comply  As per tender	Comply  As per tender	Comply  As per tender
10.	<b>Civil Works for Elevated Structure:</b> Constructing of Cemented civil pads for PV Roof mounting shed structure with dimensions LxWxH=12"x12"x8" with MS studs & bolts reinforcement.	01 Job	Comply  As per tender	Comply  As per tender	Comply  As per tender
11.	<b>Services :</b> Installation, Commissioning, Net Metering (including KE charges will be responsibility of contractor) and Services of S. No. 1 to 10.		Comply  As per tender	Comply  As per tender	Comply  As per tender
12.	<b>03 Years Preventive Maintenance:</b> After the warranty period of 12 months the contractor / firm would be required to provide 3 years preventive maintenance services and repairs without spare parts. A complete job in all respect as required at site. <b>From S.No. 1 to 10</b>		Comply  As per tender	Comply  As per tender	Comply  As per tender

**ELECTRICAL ENGINEER (WEST)**  
Member

**DY. CHIEF ELECTRICAL ENGINEER (O&M)**  
Convener

**KARACHI PORT TRUST**  
**MECH. & ELECT. ENGINEERING DEPARTMENT-II**

**PROFORMA 'A'**  
(To be submitted with the tender)

Particulars	M/s. Wateen Solutions (PVT) Ltd.	M/s. Ideal Power Solutions (PVT) Ltd.	M/s. Surge Energies (PVT) Ltd.
<p>1. Experience as a Contractor.</p> <p>2. Work carried out in the past with detailed cost, particulars and the year in which they were under taken etc.</p> <p>3. Bankers reference regarding Financial status.</p> <p>4. Whether registered with any other Department or Organization? If so, give details.</p>	<p>Comply more than 15 years after S.No. 27</p> <p>Comply Documents attach at S.No. 30</p>	<p>Comply more than 06 years at S.No. 37 a,b,c</p> <p>Comply Documents attach at S.No. 41</p>	<p>Comply more than 05 years at S.No. 47</p> <p>Comply Documents attach at S.No. 50</p> <p>Comply Documents attach at S.No. 51</p>

Particulars	M/s. Wateen Solutions (PVT) Ltd.	M/s. Ideal Power Solutions (PVT) Ltd.	M/s. Surge Energies (PVT) Ltd.
5. Plant and equipment in possession(Give Detail with cost)	Comply before S.No. 29	Comply before S.No. 42	Comply at S.No. 49
6. Technical personnel employed; give Names and other details.	Comply at S.No. 29	Comply at S.No. 40	Comply after S.No. 48
7. If your firm registered?	Comply	Comply	Comply
8. State Capital of your firm.	Comply at S.No. 24	Comply at S.No. 34	Comply at S.No. 44
9. Details of Income tax, Sales tax, Registration etc.	Comply at S.No. 27	Comply at S.No. 37 a,b,c	Comply at S.No. 47
10. Number of years of actual work carried out in Pakistan.	Comply More than 15 years after S.No. 27	Comply More than 06 years at S.No. 37 a,b,c	Comply More than 05 years at S.No. 47

Particulars	M/s. Wateen Solutions (PVT) Ltd.	M/s. Ideal Power Solutions (PVT) Ltd.	M/s. Surge Energies (PVT) Ltd.
11. Attach attested copy of certificate of past work of the same nature carried out as that in tender.	Comply at S.No. 30	Comply at S.No. 41	Comply at S.No. 50
12. Electrical Contractor license No. and date.	Comply PPIB Certificate for solar work at S.No. 28	Comply PPIB Certificate for solar work at S.No. 38 a,b,c	Comply PPIB Certificate for solar work at S.No. 47



**ASSTT MANAGER FINANCE**  
Member



**DY. CHIEF ELECTRICAL ENGINEER (O&M)**  
Convener

**ELECTRICAL ENGINEER (WEST)**  
Member

**KARACHI PORT TRUST**  
**MECH & ELECT ENGG. DEPARTMENT-II**


**PROFORMA – “B”**

<b>S.NO</b>		<b><u>D E T A I L S</u></b>			
		<b><u>PARTICULARS</u></b>			
<b>1.</b>	<b>In case of “SOLE PROPRIETOR SHIP” concern.</b>	<b>1. Full Name of the Proprietor.</b>	<b>2. Business address and Phone No. if any.</b>	<b>3. Residential address and Phone No. if any.</b>	<b>4. Certified copy of certificate of registration with Registrar of Firms to be attached.</b>
		N/A	N/A	N/A	N/A
<b>2.</b>	<b>In case of “PARTNERSHIP” concern:</b>	<b>a. Name of the Partners with their business/ residential address and Phone No. if any.</b>			
		<b>b. Partnership Deed &amp; Certificate of Registration (Certified copies to be attached)</b>			
		N/A	N/A	N/A	N/A

<u>S.NO</u>	<u>PARTICULARS</u>			
3.	<p><u>In case of "PRIVATE LIMITED COMPANY".</u></p> <p>a. Name of all Directors with their Business/Residential address and Phone No., if any.</p> <p>b. Memorandum &amp; Articles of Association of the Company and Certificate of incorporation. (Certified copies to be attached.)</p>	<p>M/s. Wateen Solutions (PVT) Ltd.</p> <p>Comply PVT LTD company Details at S.No. 27</p>	<p>M/s. Ideal Power Solutions (PVT) Ltd.</p> <p>Comply JV agreement of three PVT LTD companies i.e. Ideal Power Solutions (PVT) LTD, Ningbo Green Light Energy (PVT) LTD &amp; Manjhi Constructions (PVT) LTD at S.No. 39</p>	<p>M/s. Surge Energies (PVT) Ltd.</p> <p>Comply PVT LTD company Details at S.No. 47</p>
4.	<p><u>In case of "PUBLIC LTD., COMPANY".</u></p> <p>Memorandum &amp; Articles of Association and (Certified copies to be attached).</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>
5.	<p><u>In case firm is to be represented by "ATTORNEY".</u></p> <p>a. Legal Status and full particulars of the Attorney.</p> <p>b. Period of validity of Power of Attorney (Certified copies of Special or General Power of Attorney duly executed on Stamp Paper of proper value and authenticated/attested by a competent Authority to be attached.</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>

S.NO	PARTICULARS	M/s. Wateen Solutions (PVT) Ltd.	M/s. Ideal Power Solutions (PVT) Ltd.	M/s. Surge Energies (PVT).Ltd.
6.	G.I.R. No: Income Tax and amount of Income paid during the last assessment year (state year of Assessment)	Comply NTN No. 2086604-6 at S.No. 27	Comply NTN No. 5003318 NTN No. 8892310 NTN No. 7240742 at S.No. 37 a,b,c	Comply NTN No. 5222109 at S.No. 47
7.	A Certificate from the Bankers, sealed and addressed to the KPT showing the financial position of the Institution tendering, should be enclosed.	Comply	Comply	Comply

  
**ASST MANAGER FINANCE**  
 Member

  
**ELECTRICAL ENGINEER (WEST)**  
 Member

  
**DY. CHIEF ELECTRICAL ENGINEER (O&M)**  
 Convener