



KARACHI METROPOLITAN CORPORATION ENGINEERING DEPARTMENT

Engr. Shahab Anwer
Director General (Technical Services)

512 JM, New M.A. Jinnah Road, Karachi
Phone: 99230951 Fax: 99230952

No.DG/TS/KMC/535/2017

20, November, 2017

Subject: CONSTITUTION OF PROCUREMENT COMMITTEE FOR
PROCUREMENT OF ELECTRICAL & MECHANICAL WORKS,
ENGINEERING DEPARTMENT, KMC

In Pursuance of Rule-7 of Sindh Public Procurement Regulatory Authority Rules, 2010, Procurement Committee comprising the following officers is hereby notified for procurement of E&M Works and performing responsibilities as per Rule-8 of the ibid rules:-

- | | |
|---|--------------------|
| ✓ 1. Mr. Anis Ahmed Khan
Chief Engineer (E&M)
Engineering Department, KMC | Chairman |
| 2. Atta Muhammad Memon
Executive Engineer Low Cost Housing, KDA | Member |
| 3. Wajahat Hussain Zuberi
Accountant, Engineering Deptt. KMC | Member / Secretary |

[Signature]
Director General (Technical Services)
Karachi Metropolitan Corporation

Copy to:-

1. Metropolitan Commissioner, KMC
2. Dy. Director (Enf-I) Sindh Public Procurement Regulatory Authority (SPPRA) Karachi
3. Procurement Committee Members through Chief Engineer (E&M) Engg Deptt. KMC
4. Director Accounts, Engineering Department, KMC
5. Secretary to Mayor, Karachi

AAD
Keep in file
df

Pl. circulate to all XENS
Addl. Dy. (Admin) E&M
circulated to
all XENS (E/M)
AD (E/M)
At 10/11/17
XEN (E&M) KMC
20/11/17



KARACHI METROPOLITAN CORPORATION ENGINEERING DEPARTMENT

512 JM, New M.A. Jinnah Road, Karachi
Phone: 99230951 Fax: 989230952

No.Staff Engr/Engg/KMC/344/2017

06, November, 2017

Subject: COMPLAINT REDRESAL COMMITTEE

Consequent upon restructuring of Engineering Department, KMC vide order No.Secy/MC/KMC/1207 dated 23-20-2017 issued by the Metropolitan Commissioner, KMC, the formation of Complaint Redressal Committee previously constituted vide letter No.EE/CM/Engg.Dept/KMC/718/15 dated 03-12-2015 is hereby modified as under:

- | | |
|--|--------------------|
| 1. Director General (Technical Services) KMC | Chairman |
| 2. Director (Planning) F&A, KMC | Member |
| 3. Chief Engineer (Buildings) Engg Deptt. KMC | Member / Secretary |
| 4. An independent professional from the relevant Field concerning the procurement progress in Question to be nominated by the Head of procuring agency (as per approval by the competent authority from time to time and case to case basis) | Member |
| 5. Director Accounts, Engg. Deptt. KMC | Member |

In case of complaints of buildings works, the Chief Engineer (Buildings) KMC will be replaced with the Chief Engineer (Zone-A) KMC.

This issues with the approval of Director General (Technical Services) KMC.

Sewer
03/11/17
Staff Engineer
Engineering Department, KMC

Copy to:-

1. Director Technical, Mayor Secretariat, KMC
2. Financial Advisor, KMC
3. Chief Engineers, Engineering Department, KMC (all)
4. Committee Members
5. Office Copy

A/O

ATTENDANCE SHEET.


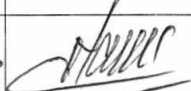


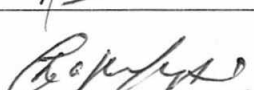
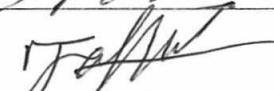
N.I.T NO.EE(E&M)(C.M)/ KMC/41/2018

DATED: 19-02-2018

Date of Opening: 14-03-2018 TIME 2.30 P.M Venue: Chief Engineer

(E&M) Office at
Office No.1 Behind
Dawood Engineering
University Muslimabad
Gurumander , Karachi.

LIST OF PARTICIPANTS.

S.NO.	NAME/FIRM	SIGNATURE.
1	M/S AL-AMER ASSOCIATES	
2	M/C SUMAIR ELECTRIC STORE	
3	M/S A-S. ENGINEERING	
4	M/S MUHAMMAD ALI SHAJRA	
5	M/C NEW MAHAB CO.	
6	ILYBER BUIDER	
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		



KARACHI METROPOLITAN CORPORATION
OFFICE OF THE EXECUTIVE ENGINEER (E&M)
CONTRACT MANAGEMENT
ENGINEERING DEPARTMENT

No. EE/E&M/C.M/Engg.Deptt./KMC/

Dated: _____

Item No.3

SUBJECT:- Providing /Installation & Commissioning of Diesel Generator Sets at Landhi Medical Complex.


COMPARATIVE STATEMENT.


Tender for the above subject work were received and opened on 14-03-2018 at 2.30 P.M by the Procurement Committee on Schedule Time as per N.I.T, SPPRA
Serial #37018


Following Firms/Contractors have participated in the tender.

Sr#	Name of Firm	Rate Quoted by Contractor Plus Offer Rates Basis.	Checked by calculation	Remarks.
1	M/s. Al Amir Associates	*30% above on S/R Rs.488800/- *Offer Rates Rs.4157000/- *Rs.46,45,800/-for Complete work.	*30% above on S/R Rs.488800/- *Offer Rates Rs.4157000/- *Rs.46,45,800/-for complete work.	* Non Responsive * Pay Order of bid security not attached
2	M/s.M.Ali Shujrah JV Al Maqbool Associates.	*At Par on S/R Rs.376000/- *Offer Rates Rs.5900000/- *Rs.62,76,000/-for complete work	*At Par on S/R Rs.376000/- *Offer Rates Rs.5900000/- *Rs.62,76,000/-for complete work	* Responsive Bid.
3	M/s. Sumair Electric Store.	*20% above on S/R Rs.451200/- *Offer Rates Rs.6076000/- *Rs.65,27,200/-for complete work.	*20% above on S/R Rs.451200/- *Offer Rates Rs.6076000/- *Rs.65,27,200/-for complete work..	* Non Responsive Not qualified as per requirement of eligibility Criteria.

The above tenders were received and made part of the work file.


Accountant (E&M) KMC
Secretary/Member
Procurement Committee


XEN (CIVIL) K.D.A
Member
Procurement Committee


Chief Engineer (E&M) KMC
Chairman
Procurement Committee



COMPARATIVE STATEMENT.

Subject: Providing and Installation and Commissioning of Diesel Generating Set at Landhi Medical Complex.

		Engineer Estimated Cost.				M/s. M.Ali Shujrah JV		M/s. Al Amir Associates.		M/s.Sumair Elect. Store.	
S.#	DESCRIPTION.	Unit.	Qty.	Rate	Amount.	Rate	Amount	Rate	Amount	Rate	Amount
1	P/L (Main or Sub Main) of PVC Insulated & PVC sheeted with four core armoured copper conductor 600/1000 volts size 95mm2.	Mtr	50	7520	376000	7520	376000	7520	376000	7520	376000
NON SCHEDULE ITEMS											
2	P/L (Main or Sub Main) of PVC Insulated & PVC sheeted with single core copper conductor 600/1000 volts size 95mm2.	Mtr.	60	2450	147000	2500	150000	2200	132000	2200	132000
3	Providing installation commissioning and testing of Water Cooled, single source Diesel Generating Set suitable for operation at 50C and 60% Relative Humidity Manufactured by reputed vender assembled in accordance with their provided drawings/manual and consisting of painted welded sheet bed plate frame work to accommodate engine alternator complete with electric governor to give regulation to BS 5514 class A1 balanced flywheel, jacket water heater, heavy duty starting maintenance freee batteries, set of spare oil/fuel Filter engine with oil Pressure and Water Temperature Gauge, Alternator electronics voltage regulator, 4 pole, single bearing radio interference suppressors, Electronic Tachometer Frequency meter Voltmeter with Selector Switch Ampere meter with Selector switch, Emergency Stop push button, radiator, with water level switch, built fuel tank for operation up to 10 hours standby Rating 100 KVA 400/230V, 50cycle/Second at 1500RPM for 3 phase 4 wire System, Generator should be Capable of synchronization (Caterpillar/Cummins/ F.G willson/Equivalent). Along with super sound proof canopy including cost of allied work i.e. RCC foundation required shape and size etc complete in all respect.	Job	1	417+06	3500000	4000000	4000000	3000000	3000000	4200000	4200000

Whtume!

Whtume!

S.#	DESCRIPTION.	Engineer Estimated Cost.				M/s. M.Ali Shujrah JV Al Maqbool Associates.		M/s. Al Amir Associates.		M/s. Sumair Elect. Store.	
		Unit.	Qty.	Rate	Amount.	Rate	Amount	Rate	Amount	Rate	Amount
4	Providing fixing and Connection of earthing set which consist of one copper rod size 20mm dia 6ft. Long buried at 6 meter below the ground level or water level, 3 meter away from the nearest foundation of the building. The earth lend shall be 2 Nos 50mm ² stranded copper conductor drawn in 50mm dia GI pipe from the earthing rod to the Generator set including hoaring/digging as required and refilling the earth pits, with necessary salts /earth chemical as required as per IEE regulation complete in all respects..	Job	1	45000	45000	50000	50000	45000	45000	44000	44000
5	Providing, fabrication of the following low voltage switch board panel out door type, wetather proof, floor mounting metal clad compartment style cubical type, each breaker has separate compartment with separate door, separate bus bar, separate section for cable termination to all breakers and all ACBs/MCCBs shall be installed behind a protection dead front plate switch boards of the system 380/400volts 3 phase 4 wire 50Hz including the under mentioned items, complete in all aspect with interconnection the incoming for the panel shall be designed suitable for cable enter from top /bottom complete in all aspect.										

ok

W/hume?

200mm

200mm

S.#	DESCRIPTION.	Engineer Estimated Cost.				M/s. M.Ali Shujrah JV		M/s. Al Amir Associates.		M/s. Sumair Elect. Store.	
		Unit.	Qty.	Rate	Amount.	Rate	Amount	Rate	Amount	Rate	Amount
A	AUTO SYNCHRONIZING AUTO LOAD SHARING SYSTEM INCOMING GENSET - 1 : (100 KVA Diesel Generator Set.) Supply of Synchronizing Panel for 2x100KVA Diesel Generator Set. It consists of: * 02 Nos 150Amps TP MCCB 36 K.A. * 02 No 1450ampere Magnetic contactor * 02 No 1 No+ 1 NC Auxiliary contacts * 02 No Synchronizing module. * 02 No Relay card * 01 No Battery Bank. * 06 No Current transformers rating: 150/5 * 01 No Trickle battery charger. * 06 No Control fuses + base * 04 No 150 ampere Copper bus bar. * 01 No Neutral bar.										
	B AUTO TRANSFER SWITCH PANEL 150AMPS. Auto Transfer Switch . It should provide an Auto Transfer of load in to existing system with any delay of 4 sec and on resumption of Mains, the ATS system consist of : * 02 Nos 150Amps 4P MCCB with mechanically and electrically interlock through the A.C motor. * 01 No Digital Ammeter with selector switch * 01 No Digital Voltmeter with selector switch * 03 No Current transformers rating : 150/5 * 01 No Timer with base EVR. * 01 No AMF Module. * 01 No Trickle battery charger. * 03 No Indicating lights (R.Y.B). * 03 No Control fuses + base	Job	1	850000	850000	1000000	1000000	600000	600000	900000	900000
		Job	1	375000	375000	450000	450000	200000	200000	500000	500000

ab

M. Humei

1000000

1000000

S.#	DESCRIPTION.	Engineer Estimated Cost.				M/s. M.Ali Shujah JV		M/s. Al Amir Associates.		M/s. Sumair Elect. Store.	
		Unit.	Qty.	Rate	Amount.	Rate	Amount	Rate	Amount	Rate	Amount
C	AUTO PHASE SEQUENCE PANEL 150AMPS. Auto phase sequence panel. It should provide an Auto Change the phase sequence of the power supply by K- Electric and provide the power supply in sequence as per load requirement the system consist of: * 02 No 150Amps 3 pole MCCB with Auxiliary and motor mechanism. * 01 No EVR * 05 No Control fuse with base. * 03 No Indicating lights (R.Y.B).	Job	1	156980	156980	250000	250000	180000	180000	300000	300000
					5449980		6276000		4533000		6452000

At par
on S.R

5449980

30%abov
on S.R

112800 on S.R 75200
4645800 6527200

Wajahat Hussain
Accountant (E&M) KMC
Secretary/Member
Procurement Committee

Ata Muhammad Menon
XEN (CIVIL) R.D.A
Member
Procurement Committee

Anees Ahmed Khan
Chief Engineer (E&M) KMC
Chairman
Procurement Committee

KARACHI METROPOLITAN CORPORATION
OFFICE OF THE EXECUTIVE ENGINEER (E&M)
CONTRACT MANAGEMENT
ENGINEERING DEPARTMENT

No. EE/E&M/C.M/Engg.Dt./KMC/

Dated: _____

BID EVALUATION REPORT.

(In Compliance of clause 45 SPPRA Rules 2010)

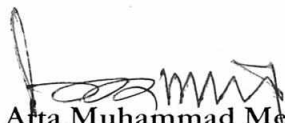
- 1 Name of Procuring Agency: **Karachi Metropolitan corporation.**
- 2 Tender Reference No: **EE/E&M/C.M/13/2017-18**
- 3 Tender Description/Name of work/Item: **Providing/Installation & Commissioning of Diesel Generator Set at Landhi Medical Complex.**
- 4 Method of Procurement: **Single stage- one Envelope.**
- 5 Tender Published: **SPPRA ID No.37018 Daily Express, The DAWN & Awami Awaz. Dt.20/2/18**
Print & Electronic Media (SPPRA ID No. & News papers names with dates)
- 6 Total Bid documents Sold: **03 Nos**
- 7 Total Bids Received: **03 Nos**
- 8 Technical Bid Opening date : (If applicable) **14-03-2018 (Single stage /one envelope)**
- 9 No. of Bid technically qualified(if applicable). **01 Nos**
- 10 Bid (s) Rejected: **02 Nos**
- 11 Financial Bid Opening date: **14-03-2018 (Same being single stage - one envelope)**
- 12 Bid Evaluation Report.

Sr.#	Name of Firm or Bidder	Cost of Offered by the Bidder.	Ranking in terms of Cost.	Comparison with Estimated cost.	Reasons for acceptance /Rejection.	Remarks.
1	2	3	4	5	6	7
1	M/s.Mohd Ali Shujra JV Al Maqbool Associates	Rs.62,76,000/- for complete work.	1st. Lowest	14.11%above Est.Cost. Of PC-I Rs.5.5Million	Qualified as per Minimum Qualification Eligibility Criteria.	Recommended for award of work.
2	M/s. Al Amir Associates	Rs46,45,800/- for complete work.	2nd . Lowest	15.53%below Est.Cost. Of PC-I Rs.5.5Million	Not Qualified as per Minimum Qualification Eligibility Criteria. bid security not attached P.Order	Non Responsive
3	M/s.Sumair Elect. Store.	Rs65,27,200/- for complete work.	3rd Lowest	18.68%above Est.Cost. Of PC-I Rs.5.5Million	Qualified as per Minimum Qualification Eligibility Criteria. short bid security Pay Order	Non Responsive

This issued with the approval of the members of the Procurement Committee.


Wajahat Hussain

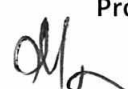
Accountant (E&M) KMC
Secretary/Member
Procurement Committee


Atta Muhammad Memon

XEN (CIVIL) K.D.A
Member
Procurement Committee


Anees Ahmed Khan

Chief Engineer (E&M) KMC
Chairman
Procurement Committee



KARACHI METROPOLITAN CORPORATION
OFFICE OF THE EXECUTIVE ENGINEER (E&M) CONTRACT MANAGEMENT
ENGINEERING DEPARTMENT

No. EE/E&M/G.M/Engg.Deptt./KMC/

Dated: _____

NIT No. EE/(C.M)/E&M/KMC/41/2018 Dated: 19-02-2018 (Item No.3)
SUBJECT:- Providing /Installation & Commissioning of Diesel Generator Sets at Landhi Medical Complex.

Method of Procurement: Single stage Single Envelope.

MINUTES OF BID OPENING MEETING.

A MEETING OF THE Procurement Committee of this department was held on **14-03-2018** for opening the bids received in respect of subject NIT bill the deadlines of submission. The meeting was attended by all following members of the procurement committee.

- | | | |
|-------------------------------|--------------------------|------------------|
| 1. Mr. Anees Ahmed Khan | Chief Engineer (E&M) KMC | Chairman |
| 2. Mr. Atta Muhammad Memon | XEN (E&M) KDA | Member |
| 3. Mr. Wajahat Hussain Zubari | Accountant | Secretary/Member |

The following bidder submitted their bids till the deadline of submission.

Sr#	Name of Bidder
1	M/s. Al Amir Associates
2	M/s.M.Ali Shujrah JV Al Maqbool
3	M/s. Sumair Electric Store.


The bids were opened at 2.30 P.M in the presence of the above mentioned participants and the rates quoted by bidders were read aloud and encircled by Chairman of the Tender Opening committee. All the members of the Tender Opening Committee signed each and every page of financial proposal/bids. The bids do not contain any over-writing or cutting (Also mention cutting or over writing if any)

Following is the details of bids announced.


Sr #	Name of Bidder	Offered Price	Amount of Bid Security	Pay order & Date.	Remarks.
1	M/s. Al Amir Associates	*30% above on S/R Rs.488800/- *Offer Rates Rs.4157000/- *Rs.46,45,800/-for complete job work.	Rs.1,30,000/-	04052880 Dated:14-3-18	* Non Responsive Pay order of bid security not attached.
2	M/s.M.Ali Shujrah JV Al Maqbool Associates.	*At Par on S/R Rs.376000/- *Offer Rates Rs.5900000/- *Rs.62,76,000/-for complete job work	Rs.1,40,000/-	04052878 Dated:14-3-18	*Responsive Bid.
3	M/s. Sumair Electric Store.	*20% above on S/R Rs.451200/- *Offer Rates Rs.6076000/- *Rs.65,27,200/-for complete job work..	Not attached.	-	* Non Responsive Not qualified as per requirement of eligibility Criteria.

The Committee shall examine all the bids as per the Qualification/Eligibility Criteria provided in the bidding documents, arithmetical checks and verify the documents and bid security submitted by the bidders.

The meeting ended with the note of thanks to and from the chair.


Accountant (E&M) KMC
Secretary/Member
Procurement Committee


XEN (CIVIL) K.D.A
Member
Procurement Committee


Chief Engineer (E&M) KMC
Chairman
Procurement Committee



KARACHI METROPOLITAN CORPORATION
OFFICE OF THE EXECUTIVE ENGINEER (E&M) CONTRACT MANAGEMENT
ENGINEERING DEPARTMENT

Tender No.3

ELIGIBILITY/MINIMUM QUALIFICATION REPORT

Name of work

Providing /Installation & Commissioning of Diesel Generator Sets at Landhi Medical Complex.

Date of Opening:

14-03-2018

Sr.#	CONDITION	M/s. Al Amir Associates	M/s.M.Ali Shujrah JV Al Maqbool Associates	M/s. Sumair Electric Store.
	<u>ELIGIBILITY</u>			
1	Valid PEC in C-6 (EE-06) & above in relevant category.	✓	✓	✓
2	NTN Certificate of F.B.R.	✓	✓	✓
3	Valid Professional Tax.	✓	✓	✓
4	Registered with Sindh Revenue Board.	✓	✓	✓
5	Electric Contractors License Valid from Electrical Inspector, Government of Sindh.	✓	✓	✓
	<u>MINIMUM QUALIFICATION CRITERIA</u>			
6	Proof of PEC registered Engineer with the firm and his presence in person at the time of issuance of tender is required to be ensured.	✓	✓	✓
7	Participating Contractor /Firm must have experience of Five years in same nature of work any where in Pakistan with strict proof of work orders and completion report / certificate of same works.	×	✓	×
8	Application for issuance of Tender documents is to be Addressed to CE (E&M) KMC & submitted to Accounts office (E&M) it must comprises of all above mentioned documents /papers to ensure the eligibility of the Contractor/Firm and pay order tender cost.	✓	✓	✓
9	Bank statement of the firm/company of last (3) three years to confirm the financial soundness. i.e. minimum turn over of Rs. 5 to 10 Millions as per rule 46 (i) (a) (ii).	×	✓	×

Wajahat Hussain
Wajahat Hussain
Accountant (E&M) KMC
Secretary/Member
Procurement Committee

Atta Muhammad Memon
Atta Muhammad Memon
XEN (CIVIL) K.D.A
Member
Procurement Committee

Anees Ahmed Khan
Anees Ahmed Khan
Chief Engineer (E&M) KMC
Chairman
Procurement Committee

KARACHI METROPOLITAN CORPORATION
ENGINEERING DEPARTMENT



TENDER REFERENCE NO.KMC/CM/E&M/13/2017-18.

BILL OF QUANTITIES

**PROVIDING INSTALLATION AND COMMISSIONING OF DIESEL
GENERATOR SETS AT LANDLHI MEDICAL COMPLEX.**

ESTIMATE.

Subject: Providing and Installation and Commissioning of Diesel Generating Set at Landhi Medical Complex.

S.#	Description	Qty	Rate	Unit.	Amount	Reference
1	P/L (Main or Sub Main) of PVC Insulated & PVC sheeted with four core amoured copper conductor 600/1000 volts size 95mm2.	50	7520	Mtr	376000	Sr. No.118
NON SCHEDULE ITEMS						
2	P/L (Main or Sub Main) of PVC Insulated & PVC sheeted with single core copper conductor 600/1000 volts size 95mm2.	60	2450	Mtr.	147000	
3	Providing installatioon commissioning and testing of Water Cooled, single souorce Diesel Generating Set suitable for operation at 50C and 60% Relative. Humidity Manufactured by reputed vender assembled in accordance with their provided drawings/manual and consisting of painted welded sheet bed plate frame work to accommodate engine alternator complete with electric governor to give regulation to BS 5514 class A1 balanced flywheel, Jacket water heater, heavy duty starting maintenance free batteries, set of spare oil/fuel Filter engine with oil Pressure and Waterr Temperature Gauge, Alternator electronics voltage regulator, 4 pole, single bearing radio interference suppressors, Electronic Tachometer Frequency mater Voltmeter with Selector Switch Ampere meter with Selector switch, Emergency Stop push button, radiator, with water level switch, built fuel tank for operation up to 10 hours standby Rating 100 KVA 400/230V, 50cycle/Second at 1500RPM for 3 phase 4 wire System, Generator should be Capable of synchronization (Caterpillar/Cummins/ F.G willson/Equivalent). Along with super sound proof canopy including cost of allied work i.e. RCC foundation required shape and size etc complete in all respect.	1	3500000	Job	3500000	
4	Providing fixing and Connection of earthing set which consist of one copper rod size 20mm dia 6ft. Long burried at 6 meter below the ground level or water level, 3 meter away from the nearest foundation of the building. The earth lend shall be 2 Nos 50mm2 stranded copper conductor drawn in 50mm dia GI pipe from the earthing rod to the Generator set including boaring/digging as required and refilling the earth pits, with necessary salts /earth chemical as required as per IEE regulation complete in all respects.	1	45000	Job	45000	

S.#	Description	Qty	Rate	Unit.	Amount	Reference
5	Providing, fabrication of the following low voltage switch board panel out door type, weather proof, floor mounting metal clad compartment style cubical type, each breaker has separate compartment with separate door, separate bus bar, separate section for cable termination to all breakers and all ACBs/MCCBs shall be installed behind a protection dead front plate switch boards of the system 380/400volts 3 phase 4 wire 50Hz including the under mentioned items, complete in all aspect with interconnection the incoming for the panel shall be designed suitable for cable enter from top /bottom complete in all aspect.					
A	<u>AUTO SYNCHRONIZING AUTO LOAD SHARING SYSTEM INCOMING GENSET - 1 :</u> (100 KVA Diesel Generator Set.) Supply of Synchronizing Panel for 2x100KVA Diesel Generator Set. It consists of: * 02 Nos 150Amps TP MCCB 36 KA. * 02 No 1450ampere Magnetic contactor * 02 No 1 No+ 1 NC Auxiliary contacts * 02 No Synchronizing module. * 02 No Relay card * 01 No Battery Bank. * 06 No Current transformers rating: 150/5 * 01 No Trickle battery charger. * 06 No Control fuses + base * 04 No 150 ampere Copper bus bar. * 01 No Neutral bar.	1	850000	Job	850000	
B	<u>AUTO TRANSFER SWITCH PANEL 150AMPS.</u> Auto Transfer Switch . It should provide an Auto Transfer of load in to existing system with any delay of 4 sec and on resumption of Mains, the ATS system consist of: * 02 Nos 150Amps 4P MCCB with mechanically and electrically interlock through the A.C motor. * 01 No Digital Ammeter with selector switch * 01 No Digital Voltmeter with selector switch * 03 No Current transformers rating : 150/5 * 01 No Timer with base EVR. * 01 No AMF Module. * 01 No Trickle battery charger. * 03 No Indicating lights (R.Y.B). * 03 No Control fuses + base	1	375000	Job	375000	
C	<u>AUTO PHASE SEQUENCE PANEL 150AMPS.</u> Auto phase sequence panel. It should provide an Auto Change the phase sequence of the power supply by K-Electric and provide the power supply in sequence as per load requirement the system consist of: * 02 No 150Amps 3 pole MCCB with Auxiliary and motor mechanism. * 01 No EVR * 05 No Control fuse with base. * 03 No Indicating lights (R.Y.B).	1	156980	Job	156980	
					5449980	

Say.

5.50 Million

*SA 376000/2 MR 5073980/2
Total 5449980/2 Tendering*
Sanj
Detail estimate will be checked before tender

Shukla

Mo