



GOVERNMENT OF SINDH  
JINNAH POSTGRADUATE MEDICAL CENTRE  
KARACHI-75510

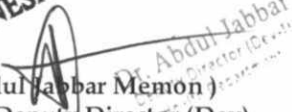
**BID EVALUATION REPORT**


**TENDER FOR SUPPLY & INSTALLATION OF 1500 kVA GENERATING SETS (TWO UNITS), 1500 kVA TRANSFORMERS (TWO UNITS), 625 kVA UPS FOR SURGICAL COMPLEX AT JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI.**

1.	Name of Procuring Agency:	Jinnah Postgraduate Medical Centre, Karachi.
2.	Tender Reference No.	Tender No.F.1-349/2016-17-(P&D)/JPMC
3.	Tender description / Name of work / item.	Supply & Installation of 1500 kVA Generating Sets (Two Units), 1500 kVA Transformers (Two Units), 625 kVA UPS for Surgical Complex at Jinnah Postgraduate Medical Centre, Karachi.
4.	Method of Procurement:	Single Stage - Two Envelope Procedure.
5.	Tender Published:	The Daily English "The Nation" Dated 26-04-2017, The Daily Urdu "Daily Duniya" Dated 26-04-2017, The Daily Sindhi "Daily Sobh" Dated 28-04-2017, vide NIT Advertisement No. INF/KRY-2269/2017 As well as same NIT was also hoisted on SPPRA official website.
6.	Total Bid documents Sold:	(11)
7.	Total Bids Received:	(06)
8.	Technical Bid Opening date:	18-05-2017
9.	No. of Bid technically qualified:	(05)
10.	Bid (s) Rejected:	Nil
11.	Financial Bid Opening date	03-06-2017
12.	Bid Evaluation Report:	<i>Details Attached as Annexure-I</i>

  
(Mr. Abdul Majid Shabbir)  
**ABDUL MAJID SHABBIR**  
Senior Engineer (Electrical)  
NESPAC (A&D) Karachi  
Co-Opted Member & Senior Engineer (Nespak), Karachi  
Representative from Nespak, Karachi

  
(Mr. Abdul Rasheed Shaikh)  
**Abdul Rasheed Shaikh**  
Executive Engineer  
Energy-I  
Member & Executive Engineer (Energy-I)  
Representative from Works & Services Department (E/M Division)

  
(Dr. Abdul Jabbar Memon)  
Member & Deputy Director (Dev)  
Representative from Health Department,  
Govt. of Sindh, Karachi

  
(Dr. Yahya Khan Tunio)  
**YAHYA KHAN TUNIO**  
Secretary/Member & Deputy Director  
Jinnah Postgraduate Medical Centre,  
Karachi

  
**MUHAMMAD NASIRULLAH**  
Assistant Accountant General  
Office of the Accountant General  
Sindh Karachi


  
(Prof. Tariq Mahmood)  
**PROF. DR. TARIQ MAHMOOD**  
Chairman & Head of Radiology, Cyberknife & Oncology Department  
Jinnah Postgraduate Medical Centre, Karachi  
Head Department of Radiology,  
Cyberknife Robotic Radiotherapy,  
Jinnah Postgraduate Medical Centre, Karachi

## BID EVALUATION REPORT


(1)


**TENDER FOR SUPPLY & INSTALLATION OF 1500 kVA GENERATING SETS (TWO UNITS) FOR SURGICAL COMPLEX AT JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI.**

Sr. No.	Name of Firm or Bidder	Cost 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 Allied Engineering & Services (Pvt.) Ltd.	PKR Rs.76,440,790/-	1 <sup>st</sup> lowest	Within Estimated cost	Meets the required technical specification.	Accepted
2.	M/s Greaves Pakistan (Pvt.) Ltd.	Rs 117,618,196/-	2 <sup>nd</sup> lowest	Above Estimated cost	Meets the required technical specification.	Not Accepted
3.	M/s R.A Engineering & Services (Pvt.) Ltd.	N/A	N/A	N/A	Does not meet the bid evaluation and required technical specification, hence not qualified technically.	Not Accepted


  
( Mr. Abdul Majid Shabbir )  
Co-Opted Member & Senior Engineer (Electrical)  
Representative from NESPAC, Karachi  
**ABDUL MAJID SHABBIR**  
Senior Engineer (Electrical)  
NESPAC (A&P Div), Karachi

  
( Mr. Abdul Rasheed Shaikh )  
Executive Engineer  
Member & Executive Engineer (Energy-I)  
Representative from Works & Services Department (E/M  
Division)

  
( Dr. Abdul Jabbar Memon )  
Member & Deputy Director (Dev)  
Representative from Health Department,  
Govt. of Sindh, Karachi

  
( Dr. Yahya Khan Tunio )  
Secretary/Member & Deputy Director  
Jinnah Postgraduate Medical Centre,  
Karachi  
**DR. YAHYA KHAN TUNIO**  
M.B.S, DCN, MPH.  
Deputy Director  
Jinnah Postgraduate Medical Centre  
Karachi

  
Member & Representative from  
Accountant General's Office, Karachi  
**MUHAMMAD MASIULLAH**  
Assistant Accountant General  
Office of the Accountant General  
Sindh Karachi


  
( Prof. Tariq Mahmood )  
Chairman & Head of Radiology, Cyberknife & Oncology Department  
Jinnah Postgraduate Medical Centre, Karachi  
**PROF. DR. TARIQ MAHMOOD**  
FCPS  
Head Department of Radiology,  
Cyberknife Robotic Radiotherapy, Oncology  
Jinnah Postgraduate Medical Centre, Karachi


**BID EVALUATION REPORT**


(2)


**TENDER FOR SUPPLY & INSTALLATION OF 1500 kVA TRANSFORMERS (TWO UNITS) FOR SURGICAL COMPLEX AT JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI.**


Sr. No.	Name of Firm or Bidder	Cost 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
No Bidder Participated						

  
**ABDUL MAJID SHABBIR**  
 ( Mr. Abdul Majid Shabbir )  
 Co-Opted Member & Senior Engineer (Nespak), Karachi  
 Representative from Nespak, Karachi  
**NESPAK (M&D), Karachi**

  
 ( Abdul Rasheed Shaikh )  
 Executive Engineer  
 Member & Executive Engineer (Energy-I)  
 Representative from Works & Services Department (E/M Division)  
 Karachi

  
 ( Dr. Abdul Jabbar Memon )  
 Member & Deputy Director (Dev)  
 Representative from Health Department,  
 Govt. of Sindh, Karachi

  
 ( Dr. Yahya Khan Tunio )  
 Secretary/Member & Deputy Director  
 Jinnah Postgraduate Medical Centre,  
 Karachi

  
**MUHAMMAD WASIULLAH**  
 Assistant Accounts Officer  
 office of the Accountant General  
 Sindh Karachi

  
 ( Prof. Tariq Mahmood )  
 Chairman & Head of Radiology, Cyberknife & Oncology Department  
 Jinnah Postgraduate Medical Centre, Karachi  
**PROF. TARIQ MAHMOOD**  
 MBBS, DMRD, FCPS  
 Head of Department of Radiology,  
 Cyberknife Robotic Radiotherapy & Surgery Oncology  
 Jinnah Postgraduate Medical Centre, Karachi


**BID EVALUATION REPORT**

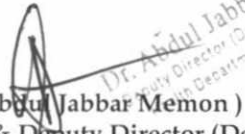
(3)


**TENDER FOR SUPPLY & INSTALLATION OF 625 kVA UPS  
FOR SURGICAL COMPLEX AT JINNAH POSTGRADUATE MEDICAL CENTRE,  
KARACHI.**

Sr. No.	Name of Firm or Bidder	Cost 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 Greaves Pakistan (Pvt.) Ltd.	PKR Rs.26,224,858/-	3 <sup>rd</sup> Lowest	Within Estimated cost	Meets the required technical specification.	Accepted as 3 <sup>rd</sup> lowest
2.	M/s Bios	PKR Rs.19,745,855/-	1 <sup>st</sup> lowest	Within Estimated cost	Meets the required technical specification.	Accepted as 1 <sup>st</sup> lowest
3.	M/s Net-Line (PK)	PKR Rs.21,977,949/-	2 <sup>nd</sup> lowest	Within Estimated cost	Meets the required technical specification.	Accepted as 2 <sup>nd</sup> lowest

  
**ABDUL MAJID SIDDIQUI**  
 (Mr. Abdul Majid Siddiqui)  
 Co-Opted Member & Senior Engineer (Electrical)  
 Representative from NESPAK, Karachi  
**NESPAK (AEP/DEV), Karachi**

  
**Abdul Rasheed Shaikh**  
 (Mr. Abdul Rasheed Shaikh)  
 Member & Executive Engineer (Energy-I)  
 Representative from Works & Services Department (E/M Division)

  
**Dr. Abdul Jabbar Memon**  
 (Dr. Abdul Jabbar Memon)  
 Member & Deputy Director (Dev)  
 Representative from Health Department,  
 Govt. of Sindh, Karachi

  
**DR. YAHYA KHAN TUNIO**  
 (Dr. Yahya Khan Tunio)  
 Secretary/Member & Deputy Director  
 Jinnah Postgraduate Medical Centre,  
 Karachi

  
**MUHAMMAD WASEEMULLAH**  
 Assistant Accountant General  
 Office of the Accountant General  
 Sindh Karachi

  
**PROF. DR. TARIQ MAHMOOD**  
 (Prof. Tariq Mahmood)  
 Chairman & Head of Radiology, Cyberknife & Oncology Department  
 Jinnah Postgraduate Medical Centre, Karachi  
 Head of Radiology, Cyberknife & Oncology Department  
 Jinnah Postgraduate Medical Centre, Karachi




GOVERNMENT OF SINDH  
JINNAH POSTGRADUATE MEDICAL CENTRE  
KARACHI-75510

FINANCIAL COMPARATIVE STATEMENT


(1)

TENDER FOR SUPPLY & INSTALLATION OF 1500 kVA GENERATING SETS (TWO UNITS)  
FOR SURGICAL COMPLEX AT JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI.


Financial C.S. Tender No.F.1-349/2016-17-(P&D)/JPMC	Financial Bid opened on 03-06-2017	
Status of the Bidder(s) as per the Rate Quoted	1 <sup>st</sup> Lowest	2 <sup>nd</sup> Lowest
Name of Firm	Allied Engineering & Services (Pvt.) Ltd.	Greaves Pakistan Services (Pvt.) Ltd.
Make	USA	France
Model	CAT 3512B, 1500 kVA/1200 eKW	KD 1650-F, 1500 kVA/1200 eKW
Sole Agent / Authorized Dealer of Manufacturer	Yes (Caterpillar)	Yes (Kohler SDMO)
Unit Price CFR US\$	US\$ 205,000/- Equivalent to Pak Rupees Rs. 21,463,500/-	US\$ 385,244/- Equivalent to Pak Rupees Rs. 40,450,680/-
Two Units Price CFR US\$	US\$ 410,000/- Equivalent to Pak Rupees Rs.42,927,000/-	US\$ 770,488/- Equivalent to Pak Rupees Rs.80,901,360/-
Schedule Work	Rs. 33,513,790/-	Rs.36, 716, 836/-
Two Units Price + Schedule Work	Rs. 76,440,790/-	Rs. 117,618,196/-


  
**ABDUL MAJID SHABBIR**  
Senior Engineer (Electrical)  
NESPAC (E&D) Div, Karachi


Co-Opted Member Engineer (Senior Engineer (Nespak), Karachi  
Representative from Nespak, Karachi

  
(Mr. Abdul Rasheed Shaikh)  
Executive Engineer  
Member & Executive Engineer (Energy)  
Representative from Works & Services Department (E/M  
Division)

  
**MUHAMMAD WASIF**  
Member & Executive Engineer  
Accountant  
Assessment & Accounts Officer  
Office of the Accountant General  
Sindh, Karachi

  
**Dr. Abdul Jabbar Memon**  
Deputy Director (Dev)  
Member & Deputy Director (Dev)  
Representative from Health Department,  
Govt. of Sindh, Karachi

  
**Dr. Yahya Khan Tunio**  
MBBS, DCN, MPH.  
Deputy Director  
Secretary/Member & Deputy Director  
Jinnah Postgraduate Medical Centre,  
Karachi

  
**PROF. DR. TARIQ MAHMOOD**  
MBBS, DMRD, FCPS  
Chairman & Head of Radiology, Cyberknife & Oncology Department  
Jinnah Postgraduate Medical Centre, Karachi

GOVERNMENT OF SINDH  
JINNAH POSTGRADUATE MEDICAL CENTRE  
KARACHI-75510

FINANCIAL COMPARATIVE STATEMENT


(2)


TENDER FOR SUPPLY & INSTALLATION OF 1500 kVA TRANSFORMERS (TWO UNITS)  
FOR SURGICAL COMPLEX AT JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI.


Financial C.S. Tender No.F.1-349/2016-17-(P&D)/JPMC

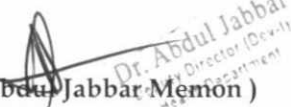
Financial Bid opened on 03-06-2017

No Bidder Participated

  
**ABDUL MAJID SHABBIR**  
(Abdul Majid Shabbir)  
Senior Engineer (Electrical)  
Co-Opted Member & Representative from Nespak, Karachi  
Senior Engineer (Nespak), Karachi  
Representative from Nespak, Karachi  
NESPAK (A&P) DIV, Karachi

  
**Abdul Rasheed Shaikh**  
(Mr. Abdul Rasheed Shaikh)  
Member & Executive Engineer (Energy-I)  
Representative from Works & Services Department (E/M  
Division)

  
**MUHAMMAD WASIFULLAH**  
Member & Executive from  
Accountant General (Sindh), Karachi  
Assistant Accountant General  
Office of the Accountant General  
Karachi

  
**Dr. Abdul Jabbar Memon**  
(Dr. Abdul Jabbar Memon)  
Member & Deputy Director (Dev)  
Representative from Health Department,  
Govt. of Sindh, Karachi

  
**DR. YAHYA KHAN TUNIO**  
(Dr. Yahya Khan Tunio)  
Secretary/Member & Deputy Director  
Jinnah Postgraduate Medical Centre,  
Karachi  
Dr. Yahya Khan Tunio  
Secretary/Member & Deputy Director  
Jinnah Postgraduate Medical Centre  
Karachi

  
**DR. TARIQ MAHMOOD**  
(Prof. Tariq Mahmood)  
Chairman & Head of Radiology, Cybersite & Oncology Department  
Jinnah Postgraduate Medical Centre, Karachi  
Head of Radiology, Cybersite & Oncology Department  
Jinnah Postgraduate Medical Centre, Karachi  
DR. TARIQ MAHMOOD  
Chairman & Head of Radiology, Cybersite & Oncology Department  
Jinnah Postgraduate Medical Centre, Karachi  
Head of Radiology, Cybersite & Oncology Department  
Jinnah Postgraduate Medical Centre, Karachi


GOVERNMENT OF SINDH  
JINNAH POSTGRADUATE MEDICAL CENTRE  
KARACHI-75510


FINANCIAL COMPARATIVE STATEMENT


(3)


TENDER FOR SUPPLY & INSTALLATION OF 625 kVA UPS  
FOR SURGICAL COMPLEX AT JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI.


Financial C.S. Tender No.F.1-349/2016-17-(P&D)/JPMC		Financial Bid opened on 03-06-2017	
Status of the Bidder(s) as per the Rate Quoted	1 <sup>st</sup> Lowest	2 <sup>nd</sup> Lowest	3 <sup>rd</sup> Lowest
Name of Firm	M/s Bios.	M/s Net-Line (PK)	M/s Greaves Pakistan Services (Pvt.) Ltd.
Make	Germany	Italy	Finland
Model	UPS-MAK Level Series	MASTERYS GP-Green Power 2.0	EATON 93 PS /EATON 93 PM
Sole Agent / Authorized Dealer of Manufacturer	Yes (MAK)	Yes (Socomec)	Yes (EATON)
Total Price CFR including schedule work	Euro 168,150/-	US\$ 209,913.55	US\$ 250,476.19
Equivalent to Pak Rupees	Rs. 19,745,855/-	Rs. 21,977,949	Rs.26,224,858/-


  
**ABDUL MAJID SHABBIR**  
(Electrical)  
Senior Engineer (Electrical)  
Co-Opted Member & Senior Engineer (Nespak), Karachi  
Representative from Nespak, Karachi  
NESPAK (A&P DIV), Karachi

  
**Abdul Rasheed Shaikh**  
Senior Engineer  
(Mr. Abdul Rasheed Shaikh)  
Member & Executive Engineer (Energy-I)  
Representative from Works & Services Department (E/M  
Division)

  
**MUHAMMAD WASIULLAH**  
Accounts Officer  
Member & Representative from  
Accountant General's Office  
Sindh, Karachi

  
**Dr. Abdul Jabbar Memon**  
Member & Deputy Director (Dev)  
Representative from Health Department,  
Govt. of Sindh, Karachi

  
**Dr. Yahya Khan Tunio**  
MBBS, DCN, MPH.  
Secretary, Member & Deputy Director  
Jinnah Postgraduate Medical Centre,  
Karachi

  
**Prof. Tariq Mahmood**  
MBBS, DMRD, FCPS  
Chairman & Head of Radiology, CyberKnife  
Jinnah Postgraduate Medical Centre, Karachi  
Head Department of Radiology,  
Cyberknife Radiotherapy Oncology  
Jinnah Postgraduate Medical Centre, Karachi

GOVERNMENT OF SINDH  
JINNAH POSTGRADUATE MEDICAL CENTRE  
KARACHI-75510

Dated 03-06-2017

SUBJECT:- MINUTES OF THE MEETING REGARDING THE OPENING OF FINANCIAL BIDS FOR THE TENDER FOR "SUPPLY & INSTALLATION OF 1500 kVA GENERATING SETS (TWO UNITS), 1500 kVA TRANSFORMERS (TWO UNITS) AND 625 kVA UPS FOR SURGICAL COMPLEX AT JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI FOR THE YEAR 2016-17.

A meeting of Procurement Committee was held on 03-06-2017 at 11:00 AM under the chairmanship of Chairman Procurement Committee at Hall-C, Najamuddin Auditorium, JPMC, in order to undertake the Financial Appraisal for 1500 kVA Genset (02 Units) of "M/s Allied Engineering & Services (Pvt.) Ltd. and "M/s Greaves Pakistan (Pvt.) Ltd." and for 625 kVA UPS of "M/s Greaves Pakistan (Pvt.) Ltd., M/s Bios and M/s Net-Line (PK)" who has qualified technically against the Government of Sindh, Jinnah Postgraduate Medical Centre's Tender regarding procurement of subject matter.

The following members were present at the time of opening Bids:

1. Prof. Tariq Mahmood, (Chairman)  
Head of Radiology, Cyberknife & Oncology Dept.,  
JPMC, Karachi.
2. Dr. Yahya Khan Tunio, (Secretary /Member)  
Deputy Director, JPMC, Karachi.
3. Dr. Abdul Jabbar Memon, (Member)  
Deputy Director (Dev), Representative from Health Department,  
Govt. of Sindh. Karachi.
4. Representative from Works & Services Dept. (E/M Division). (Member)
5. Representative from Accountant General (Sindh) Karachi. (Member)
6. Representative from NESPAK, Karachi. ( Co-opted Member)

The following Firm(s) representative were present at the time of opening Bids:

For 1500 kVA Genset (02 Units)

- M/s Allied Engineering & Services (Pvt.) Ltd.
- M/s Greaves Pakistan (Pvt.) Ltd
- M/s R.A. Engineering & Services (Pvt.) Ltd.

For 625 kVA UPS

- M/s Greaves Pakistan (Pvt.) Ltd.
- M/s Bios
- M/s Net-Line (PK)

ABDUL MAJID SHABBIR  
Senior Engineer (Electrical)  
NESPAK (A&P DIV), Karachi

PROF. Dr. TARIQ MAHMOOD  
MBBS, DMRD, FCPS  
Head Department of Radiology,  
Cyberknife Robotic Radiosurgery Oncology  
Jinnah Postgraduate Medical Centre Karachi

The Chairman Procurement Committee announced the technical evaluation report with the reasons for acceptance / rejection of bids and returned the sealed financial proposals to firms who disqualify technically.

(Abdul Rasheed Shaikh)  
Executive Engineer  
Electrical / Energy-1  
Karachi

Dr. YAHYA KHAN TUNIO  
MBBS, DCN, MPH,  
Deputy Director  
Jinnah Postgraduate Medical Centre  
Karachi


MUHAMMAD WASIULLAH  
Assistant Accounts Officer  
Office of the Accountant General  
Sindh Karachi


Dr. Abdul Jabbar  
Deputy Director (Dev-1)  
Health Department


The Bid(s) was opened in presence of the firm's participants and the rates quoted by the Bidder(s) was read aloud and encircled by the Chairman of the Procurement Committee. All the members of the Procurement Committee signed each & every page of Financial Proposals.


The comparative statement of the Bid(s) announced in the meeting attached as "Commercial C.S."


Meeting ended with the vote of thanks to the chair.

  
**ABDUL MAJID SHABBIR**  
Senior Engineer (Electrical)  
NESPAC (E/P/Div), Karachi  
Co-Opted Member & Senior Engineer (Nespak), Karachi  
Representative from Nespak, Karachi

  
( Mr. Abdul Rasheed Shaikh )  
Member & Executive Engineer (Energy-I)  
Representative from Works & Services Department (E/M Division)

  
( Dr. Abdul Jabbar Memon )  
Member & Deputy Director (Dev)  
Representative from Health Department,  
Govt. of Sindh, Karachi

  
( Dr. Yahya Khan Tunio )  
Secretary/Member & Deputy Director  
Jinnah Postgraduate Medical Centre,  
Karachi

  
Member & Representative from  
Accountant General's Office  
Karachi

**MUHAMMAD NISRULLAH**  
Assistant Accountant General  
Office of the Accountant General  
Sindh Karachi

  
( Prof. Tariq Mahmood )  
Chairman & Head of Radiology, Cyberknife & Oncology Department  
Jinnah Postgraduate Medical Centre, Karachi


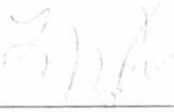

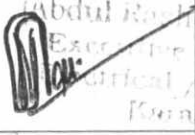

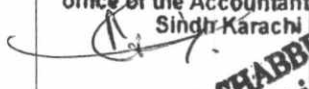
**PROF. DR. TARIQ MAHMOOD**  
Head Department of Radiology, FCP  
Cyberknife Robotic Radiology, Oncology,  
Jinnah Postgraduate Medical Centre, Karachi

GOVERNMENT OF SINDH  
JINNAH POSTGRADUATE MEDICAL CENTRE  
KARACHI-75510

PROCUREMENT COMMITTEE ATTENDANCE SHEET

Dated the 03<sup>rd</sup> June, 2017

SUBJECT:- OPENING OF FINANCIAL BIDS FOR THE TENDER "SUPPLY & INSTALLATION OF 1500 kVA GENERATING SETS (TWO UNITS), 1500 kVA TRANSFORMERS (TWO UNITS) 625 kVA UPS FOR SURGICAL COMPLEX THROUGH DEVELOPMENT SCHEME "PROVISION OF EQUIPMENT FOR SURGICAL COMPLEX AT JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI" FOR THE YEAR 2016-17.

S.No.	NAME & DESIGNATION	SIGNATURE
1.	Prof. Tariq Mahmood, Head of Radiology, Cyberknife & Oncology Dept., JPMC, Karachi. (Chairman)	
2.	Dr. Yahya Khan Deputy Director, JPMC, Karachi (Member/Secretary)	
3.	Dr. Abdul Jabbar Memon Deputy Director (Dev), Representative from Health Department, Govt. of Sindh, Karachi. (Member)	
4.	Mr. Abdul Rasheed Shaikh Executive Engineer (Energy-I) Representative from Works & Services Department (E/M Division) (Member)	 Abdul Rasheed Shaikh Executive Engineer Works & Services Department, Energy Karachi
5.	Representative from Accountant General (Sindh) (Member)	 <b>MUHAMMAD WASIULLAH</b> Assistant Accounts Officer office of the Accountant General Sindh Karachi
6.	Abdul Majid Shabbir Senior Engineer Representative from Nespak (E/M Division) (Co-Member)	 <b>ABDUL MAJID SHABBIR</b> Senior Engineer (Electrical) NesPAK (A&P DIV), Karachi

  
JINNAH POSTGRADUATE MEDICAL CENTRE  
KARACHI

  
**PROF. DR. TARIQ MAHMOOD**  
MBBS, DMRD, FCP(S)  
Head Department of Radiology  
Cyberknife Robotic Radiosurgery Oncology  
Jinnah Postgraduate Medical Centre, Karachi.





GOVERNMENT OF SINDH  
JINNAH POSTGRADUATE MEDICAL CENTRE  
KARACHI-75510

BIDDERS ATTENDANCE SHEET

Dated the 03<sup>rd</sup> June, 2017

SUBJECT:- OPENING OF FINANCIAL BIDS FOR THE TENDER "SUPPLY & INSTALLATION OF 1500 kVA GENERATING SETS (TWO UNITS), 1500 kVA TRANSFORMERS (TWO UNITS) 625 kVA UPS FOR SURGICAL COMPLEX THROUGH DEVELOPMENT SCHEME "PROVISION OF EQUIPMENT FOR SURGICAL COMPLEX AT JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI" FOR THE YEAR 2016-17.

S.No.	NAME OF FIRM(S)	FOCAL PERSON NAME	CONTACT NO.	SIGNATURE
1.	Allied Engineering & Services (Pvt.) Ltd.	Amir A. Khan	0342-2329304	[Signature]
2.	Greaves Pakistan (Pvt.) Ltd. (For Generating Sets)	Ahmed Raza	0322-2937016	[Signature]
3.	RA Engineering & Services Pvt. Ltd.	Imam M. Iqbal + Adnan	0334-3316320	[Signature]
4.	Greaves Pakistan (Pvt.) Ltd. (For 625 kVA UPS)	Ahmed Raza	0322-2937016	[Signature]
5.	M/s Bios	Ali Ahmad	0324-2589770	[Signature]
6.	Net-Line (Pvt.) Ltd.	Umair Zaway	0333-3096903	[Signature]

Sealed  
Paid  
Received  
[Signature]

(Mr. Abdul Majid Shah)  
Nominated Member & Senior Engineer (NESPAC), Karachi  
Representative from Works & Services Department, Karachi

**ABDUL MAJID SHABBIR**  
Senior Engineer (Electrical)  
NESPAC (Add. D/W), Karachi

(Mr. Abdul Rasheed Shaikh)  
Executive Engineer (Energy-I)  
Member & Executive Engineer (Energy-I)  
Representative from Works & Services Department (E/M Division)

**Abdul Rasheed Shaikh**  
Executive Engineer  
Energy-I

(Dr. Abdul Jabbar Memon)  
Member & Deputy Director (Dev)  
Representative from Health Department,  
Govt. of Sindh, Karachi

(Dr. Yahya Khan Tunio)  
Secretary/Member & Deputy Director  
Jinnah Postgraduate Medical Centre,  
Karachi

Member & Representative from  
Accountant General's Office,  
Sindh, Karachi

**MUHAMMAD WASIULLAH**  
Assistant Accountant General  
Office of the Accountant General  
Sindh, Karachi

(Prof. Tariq Mahmood)  
Chairman & Head of Radiology, CyberKnife & Oncology Department  
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**PROF. DR. TARIQ MAHMOOD**  
Head of Radiology, CyberKnife & Oncology  
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Karachi







**TECHNICAL EVALUATION REPORT**  
(As per details provided by the participants / bidders)

(1)

**TENDER FOR SUPPLY & INSTALLATION OF 1500 kVA GENERATING SETS (TWO UNITS)  
FOR SURGICAL COMPLEX AT JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI.**

Supply & Installation of 1500 kVA Generating Sets (Two Units) for Surgical Complex Jinnah Postgraduate Medical Centre, Karachi.					
Technical Comparative Statement of Tender No.F.1-349/2016-17-(P&D)/JPMC				Opened on 18-05-2017	
S. No.	Specifications / Requirements	M/s Allied Engineering & Services Works (Pvt.) Ltd.	M/s Greaves Pakistan (Pvt.) Ltd.	M/s R.A Engineering & Services (Pvt.) Ltd.	Remarks
1.	1500 kVA DG set Product Specifications	Model no. 3512B	Model no. KD1650-F	Model no. MTU 12V4000 DS1650	
1.1	<b>General Genset Requirements</b> The generator set shall be Prime Duty rated at 1200 ekW, 1500 kVA, 1500 RPM, 0.8 power factor, 415 V, 3-Phase, 50 hertz, including radiator fan and all parasitic loads. Generator set shall be sized to operate at the specified load at a maximum ambient of 122° F (50° C) and altitude of 328 feet (100 m) without de-rated. <b>Prime Power Rating:</b> <ul style="list-style-type: none"> <li>Average Power Output = 70% of prime power rating</li> <li>Load = Varying</li> <li>Typical Hours/Year = Unlimited</li> <li>Typical Peak Demand = 100% of prime rated ekW with 10% overload capability for emergency use for a maximum of one (1) hour in 12. Overload operation cannot exceed 25 hours per year.</li> <li>Typical Application = Industrial, Pumping, Construction, Rental or Co-Generation</li> </ul>	Complied  Project sizing report is submitted for compliance with 50 C ambient temperature.	Complied  De-rating chart is submitted for compliance with 50 C ambient temperature.	Complied  But no documentary evidence submitted in technical bid.	All bidders complied.   <b>MUHAMMAD WASIULLAH</b> Assistant Accounts Officer Office of the Accountant General Sindh Karachi
1.2	<b>Material and Parts</b> All materials and parts comprising the unit shall be new and unused.	Complied   <b>ABDUL KASHHEED SHAIKH</b> Executive Engineer Electrical / Energy Karachi	Complied	Complied	All bidders complied.
1.3	<b>Engine</b> The engine shall be diesel fueled, four (4) cycle,	Complied	Complied	Complied	All bidders complied.

	water-cooled, while operating with nominal speed 1500 RPM.				
<b>1.4</b>	<b>Engine Governing</b>				
	<ul style="list-style-type: none"> <li>The engine governor shall be electronic control module, with 24-volt DC electric Actuator.</li> <li>The module shall be enclosed in an environmentally sealed, die-cast aluminum housing which isolates and protects electronic components from moisture and dirt contamination.</li> <li>Speed droop shall be adjustable from 0 (isochronous) to 10%, from no load to full rated load.</li> <li>Steady state frequency regulation shall be +/- 5 RPM. Speed shall be sensed by a magnetic pickup off the engine flywheel ring gear.</li> <li>A provision for remote speed adjustment shall be included.</li> <li>The ECM shall adjust fuel delivery according to exhaust smoke, altitude and cold mode limits.</li> <li>In the event of a DC power loss, the forward acting actuator will move to the minimum fuel position.</li> </ul>	<p>Complied</p> <p>Engine governor ADEM III model is submitted in technical bid.</p> <p><i>(Signature)</i>  <b>ABDUL MAJID SHABBIR</b>  Senior Engineer (Electrical)  FSPAK (A&amp;P DIV), Karachi</p> <p><i>(Signature)</i>  (Abdul Rasheed Shaikh)  Executive Engineer  Electrical / Energy-1  Karachi</p>	<p>Complied</p> <p>Engine governor ECU2-HD model is submitted in technical bid.</p> <p><i>(Signature)</i>  <b>Dr. YAHYA KHAN TUNIO</b>  MBBS, DCN, MPH.  Deputy Director  Jinnah Postgraduate Medical Centre  Karachi</p>	<p>Complied</p> <p>Engine governor ADEC (ECU7) is submitted in technical bid.</p> <p><i>(Signature)</i>  <b>PROF. Dr. TARIQ MAHMOOD</b>  MBBS, DMRD, FCPS  Head Department of Radiology,  Cyberknife Robotic Radiosurgery Oncology  Jinnah Postgraduate Medical Centre, Karachi</p> <p><i>(Signature)</i>  <b>Dr. Abdul Jabbar</b>  Deputy Director, District  Health Department</p>	All bidders complied.
<b>2.</b>	<b>Generator</b>				
<b>2.1</b>	<b>Digital Voltage Regulator</b>				
	<ul style="list-style-type: none"> <li>The digital voltage regulator shall be microprocessor based with fully programmable operating and protection characteristics.</li> <li>The regulator shall maintain generator output voltage within +/- 0.5% for any constant load between no load and full load.</li> <li>The regulator shall be capable of sensing true RMS in three phases of alternator output voltage, or operating in single phase sensing mode.</li> <li>The voltage regulator shall include a VAR/Pf control feature as standard.</li> </ul>	<p>Complied</p> <p>DVR CAT model is submitted in technical bid.</p>	<p>Complied</p> <p>Digital Regulator DIRCI 04 is submitted in technical bid.</p>	<p>Complied</p> <p>Digital voltage regulator D510C is submitted in technical bid.</p> <p><i>(Signature)</i>  <b>MUHAMMAD WASIULLAH</b>  Assistant Accountant Officer  office of the Accountant General  Sindh Karachi</p>	All bidders complied.

	<ul style="list-style-type: none"> <li>The regulator shall provide an adjustable dual slope regulation characteristic in order to optimize voltage and frequency response for site conditions.</li> <li>The voltage regulator shall include standard the capability to provide generator paralleling with reactive droop compensation and reactive differential compensation.</li> <li>Additionally, the controller shall allow system parameter setup and monitoring, and provide fault alarm and shutdown information through the controller.</li> <li>A PC-based user interface shall be available to allow viewing and modifying operating parameters in a windows compatible environment.</li> </ul>	 <b>ABDUL MAJID SHABBIR</b> Senior Engineer (Electrical) NESPAK (A&P DIV), Karachi	 <b>Dr. YAHYA KHAN TUNIO</b> MBBS, DCN, MPH, Deputy Director Jinnah Postgraduate Medical Centre Karachi		 <b>PROF. DR. TARIQ MAHMOOD</b> MBBS, DMRD, FCPS Head Department of Radiology, CyberKnife Robotic Radiosurgery Oncology, Jinnah Postgraduate Medical Centre Karachi	
<b>2.2</b>	<b>Motor Starting</b>					
	<ul style="list-style-type: none"> <li>Provided locked rotor motor starting capability must not be less than 4282 skVA at 0.4 pf at 30% instantaneous voltage dip as defined per NEMA MG 1. Sustained voltage dip data is not acceptable.</li> </ul>	Complied (Abdul Rasheed Shaikh) Executive Engineer Electrical / Energy-1 Karachi Showing capability more than 4282 skVA at 30% instantaneous voltage drop at PF 0.4.	Complied Showing capability more than 4282 skVA at 30% instantaneous voltage drop at PF 0.4.	Complied	But motor starting capability details at 30% voltage dip and PF 0.4 is not submitted in technical bid.	All bidders complied.   <b>MUHAMMAD WASIULLAH</b> Assistant Accounts Officer Singh Karachi
<b>2.3</b>	<b>Alternator Data</b>					
	<ul style="list-style-type: none"> <li>The alternator provided will be 1500 kVA prime duty with Internal Excitation.</li> <li>The insulation provided will be Class H, The alternator pitch must be 2/3.</li> <li>The Efficiency of generator shall be approximately nearer to 95%.</li> <li>Excitation type must be PMG (Permanent Magnet Generator)</li> </ul>	Complied  Project sizing report for Alternator Type SR5/1468 showing rating and efficiency at 415V for continuous rating & 50 deg centigrade is 1500 kVA, 1200 kW & 95.8. PMG Excitation is submitted in technical bid.	Complied  Datasheet for Alternator KH04920T showing rating & efficiency at 415V for continuous rating & 40 deg centigrade is 1800 kVA, 1440 kW & 96.5%. PMG Excitation is submitted in technical bid.	Not complied	Datasheet for Alternator LSA 52.3 not showing rating & efficiency at 415V for continuous rating. AREP Excitation is submitted in technical bid.	M/s R.A. Engineering and M/s leaves Pakistan have complied, whereas M/s R.A. Engineering is not complied.
<b>2.4</b>	<b>Controls - Generator Set Mounted</b>					
	Provide a fully solid-state, microprocessor based,	Complied	Complied	Not complied	M/s Allied Engineering and	

generator set control. The control panel shall be designed and built by the Genset Manufacturer. The control shall provide all operating, monitoring, and control functions for the generator set. The control panel shall provide real time digital communications to all engine and regulator controls via SAE J1939.

▪ **Environmental**

The generator set control shall be tested and certified to the following environmental conditions:


1. -40°C to +70°C Operating Range
2. 100% condensing humidity, 30°C to 60°C
3. IP22 protection for rear of controller; IP55 when installed in control panel
4. Sinusoidal vibration 4.3 G's RMS, 24-1000Hz
5. Electromagnetic Capability (89/336/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC, BS EN 50081-2, 50082-2)
6. Shock: withstand 15 G

▪ **Functional Requirements**


The following functionality shall be integral to the control panel.

1. The control shall include a LCD/LED display with text based alarm/event descriptions.
2. The control shall include a minimum of 3-line data display.
3. Audible horn for alarm and shutdown with horn silence switch Standard ISO labeling.
4. Multiple language capability.
5. Remote start/stop control.
6. Local run/off/auto control integral to system microprocessor


EMCP 4.2 generator controller is submitted in technical bid.

  
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 NESPAK (A&P DIV), Karachi

  
 Dr. Abdul Jabbar  
 Deputy Director (Gen. Hlth)  
 Health Department

  
 (Abdusheheed Shaikh)  
 Executive Engineer  
 Electrical / Energy-1  
 Karachi


Telys2 (IP55) generator controller is submitted in technical bid.







  
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 Deputy Director  
 Jinnah Postgraduate Medical Centre  
 Karachi







  
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 MBBS, DMRD, FCPs  
 Head Department of Radiology,  
 Cyberknife Robotic Radiosurgery Oncology  
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Model for generator controller is not submitted in technical bid, hence cannot evaluate further.







M/s Greaves Pakistan have complied, whereas M/s R.A. Engineering is not complied.

  
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	<ol style="list-style-type: none"> <li>7. Cool down timer</li> <li>8. Speed adjust</li> <li>9. Emergency stop push button</li> <li>10. Voltage adjust</li> <li>11. Voltage regulator V/Hz slope - adjustable</li> <li>14. Password protected system programming</li> </ol>				
2.5	<p><b>Digital Monitoring Capability</b></p> <p>The controls shall provide the following digital readouts for the engine and generator. All readings shall be indicated in either metric or English units.</p> <ul style="list-style-type: none"> <li>▪ <b>Engine</b> <ol style="list-style-type: none"> <li>1. Engine oil pressure</li> <li>2. Engine oil temperature</li> <li>3. Engine coolant temperature</li> <li>4. Engine RPM</li> <li>5. Battery volts</li> <li>6. Engine hours</li> <li>7. Engine crank attempt counter</li> <li>8. Engine successful start counter</li> <li>9. Service maintenance interval</li> <li>10. Real time clock</li> </ol> </li> <li>▪ <b>Generator</b> <ol style="list-style-type: none"> <li>1. Generator AC volts (Line to Line, Line to Neutral and Average)</li> <li>2. Generator AC current (Avg and Per Phase)</li> <li>3. Generator AC Frequency</li> <li>4. Generator kW (Total and Per Phase)</li> <li>5. Generator kVA (Total and Per Phase)</li> <li>6. Generator kVAR (Total and Per Phase)</li> <li>7. Power Factor (Avg and Per Phase)</li> <li>8. Total kWh</li> <li>9. Total kVARh</li> </ol> </li> </ul>	<p>Complied</p> <p>Remarks as per clause 2.4.</p> <p>  <b>ABDUL MAJID SHABBIR</b>  Senior Engineer (Electrical)  PAK (A&amp;P DIV), Karachi</p> <p>  Dr. Abdul Jabbar  Faculty Director (Devt)  Jinnah Postgraduate Medical Centre</p>	<p>Complied</p> <p>Remarks as per clause 2.4.</p> <p>  <b>Dr. YAHYA KHAN TUNIO</b>  MBBS, DCN, MPH.  Deputy Director  Jinnah Postgraduate Medical Centre  Karachi</p> <p>  (Abdul Rasheed Shaikh)  Executive Engineer  Electrical / Energy-I  Karachi</p>	<p>Not complied</p> <p>Remarks as per clause 2.4.</p> <p>  <b>PROF. Dr. TARIQ MAHMOOD</b>  MBBS, DMRD, FCP  Head Department of Radiology,  Cyberknife, Robotic Radiosurgery Oncology  Jinnah Postgraduate Medical Centre Karachi</p> <p>  <b>MUHAMMAD WASIULLAH</b>  Assistant Accounts Officer  Office of the Accountant General  Sindh Karachi</p>	<p>Remarks as per clause 2.4</p>

	10. % kW 11. % kVA 12. % kVAR				
2.6	<b>Alarms and Shutdowns</b>				
	<ul style="list-style-type: none"> <li>▪ <b>Engine Alarm/Shutdown</b> <ol style="list-style-type: none"> <li>1. Low oil pressure alarm/shutdown</li> <li>2. High coolant temperature alarm/shutdown</li> <li>3. Loss of coolant shutdown</li> <li>4. Over speed shutdown</li> <li>5. Over crank shutdown</li> <li>6. Emergency stop shutdown</li> <li>7. Low coolant temperature alarm</li> <li>8. Low battery voltage alarm</li> <li>9. High battery voltage alarm</li> <li>10. Control switch not in auto position alarm</li> <li>11. Battery charger failure alarm</li> </ol> </li> <li>▪ <b>Generator Alarm/Shutdown</b> <ol style="list-style-type: none"> <li>1. Generator phase sequence</li> <li>2. Generator over voltage</li> <li>3. Generator under voltage</li> <li>4. Generator over frequency</li> <li>5. Generator under frequency</li> <li>6. Generator reverse power (real and reactive)</li> <li>7. Generator overcurrent</li> </ol> </li> <li>▪ <b>Voltage Regulator Alarm/Shutdown</b> <ol style="list-style-type: none"> <li>1. Loss of excitation alarm/shutdown</li> <li>2. Instantaneous over excitation alarm/shutdown</li> <li>3. Time over excitation alarm/shutdown</li> <li>4. Loss of sensing</li> <li>5. Loss of PMG</li> </ol> </li> </ul>	<p>Complied</p> <p>Remarks as per clause 2.4.</p> <p>  <b>ABDUL MAJID SHABBIR</b>  Senior Engineer (Electrical)  NESPAC (A&amp;P DIV), Karachi</p> <p>  Dr. Abdul Jabbar  Senior Director (Daily)  Main Department</p> <p>  (Abdul Rasheed Shaikh)  Executive Engineer  Electrical / Energy-I  Karachi</p>	<p>Complied</p> <p>Remarks as per clause 2.4.</p> <p>  <b>Dr. YAHYA KHAN TUNIO</b>  MBBS, DCH, MPH,  Deputy Director  Jinnah Postgraduate Medical Centre  Karachi</p>	<p>Not complied</p> <p>Remarks as per clause 2.4.</p> <p>  <b>PROF. DR. TARIQ MAHMOOD</b>  MBBS, DMRD, FCPS  Head Department of Radiology,  Cyberknife Robotic Radiosurgery Oncology  Jinnah Postgraduate Medical Centre, Karachi</p> <p>  <b>MUHAMMAD WASIFULLAH</b>  Assistant Accounts Officer  Office of the Accountant General  Sindh, Karachi</p>	<p>Remarks as per clause 2.4</p>
2.7	<b>Inputs and Outputs</b>				
	<ul style="list-style-type: none"> <li>▪ <b>Programmable Digital Inputs</b> The Controller shall include the ability to accept programmable digital input</li> </ul>	<p>Complied</p> <p>Remarks as per clause</p>	<p>Complied</p> <p>Remarks as per clause</p>	<p>Not complied</p> <p>Remarks as per clause</p>	<p>Remarks as per clause 2.4</p>







	<p>signals. The signals may be programmed for either high or low activation using programmable Normally Open or Normally Closed contacts.</p> <ul style="list-style-type: none"> <li>▪ <b>Programmable Relay Outputs</b> The control shall include the ability to operate programmable relay output signals, integral to the controller. The output relays shall be rated for 2 A @ 30 V DC.</li> <li>▪ <b>Programmable Discrete Outputs</b> The control shall include the ability to operate discrete outputs, integral to the controller, which are capable of sinking up to 300 mA.</li> </ul>	2.4.	2.4.	2.4.	
<b>2.8</b>	<b>Maintenance</b>				
	<p>All engine, voltage regulator, control panel and accessory units shall be accessible through a single OEM Certified tool. The following maintenance functionality shall be integral to the generator set control</p> <ol style="list-style-type: none"> <li>1. Engine running hours display</li> <li>2. Service maintenance interval (running hours or calendar days)</li> <li>3. Engine crank attempt counter</li> <li>4. Engine successful starts counter</li> <li>5. 40 events are stored in control panel memory</li> <li>6. Programmable cycle timer that starts and runs the generator for a predetermined time. The timer shall use 7 user-programmable sequences that are repeated in a 7-day cycle. Each sequence shall have the following programmable set points: <ol style="list-style-type: none"> <li>a) Day of week</li> <li>b) Time of day to start</li> <li>c) Duration of cycle</li> </ol> </li> </ol>	<p>Complied</p> <p>Remarks as per clause 2.4.</p> <p> <b>ABDUL MAJID SHABBIR</b> Senior Engineer (Electrical) NESPAK (A&amp;P DIV), Karachi</p> <p> Dr. Abdul Jabbar Senior Director (Dev) Health Department</p>	<p>Complied</p> <p>Remarks as per clause 2.4.</p> <p> <b>Dr. YAHYA KHAN TUNIO</b> MBBS, DCN, MPH. Deputy Director Jinnah Postgraduate Medical Centre Karachi</p> <p> (Abdul Rasheed Shaikh) Executive Engineer Electrical / Energy-I Karachi</p>	<p>Not complied</p> <p>Remarks as per clause 2.4.</p> <p> <b>PROF. Dr. TAHIR MAHMOOD</b> MBBS, DMRD, FCPS Head Department of Radiology, Cyberknife Robotic Radiosurgery, Oncology Jinnah Postgraduate Medical Centre, Karachi</p>	<p>Remarks as per clause 2.4</p> <p> <b>MUHAMMAD WASIFULLAH</b> Assistant Accounts Officer Office of the Accountant General Sindh Karachi</p>
<b>2.9</b>	<b>Remote Communications</b>				
	<ul style="list-style-type: none"> <li>▪ The control shall include Modbus RTU communications as standard via RS-485 half duplex with configurable baud rates</li> </ul>	<p>Complied</p> <p>Remarks as per clause</p>	<p>Complied</p> <p>Remarks as per clause</p>	<p>Not complied</p> <p>Remarks as per clause</p>	<p>Remarks as per clause 2.4</p>













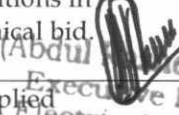

	from 2.4 k to 57.6 k.	2.4.	2.4.	2.4.	
3.	<b>Cooling System</b> <ul style="list-style-type: none"> <li>The generator set shall be equipped with a rail-mounted, engine-driven radiator with blower fan and all accessories.</li> <li>The cooling system shall be sized to operate at full load conditions and 122° F (50° C) ambient air entering the room or enclosure (If an enclosure is specified).</li> <li>The generator set supplier is responsible for providing a properly sized cooling system based on the enclosure static pressure restriction.</li> </ul>	<p>Complied</p> <p>50 C ambient temperature performance data is submitted in technical bid.</p>	<p>Complied</p> <p>Radiator design ambient temperature is at 50 C.</p>	<p>Complied</p> <p>But no documentary evidence submitted in technical bid.</p>	All bidders complied.
3.1	<b>Fuel System</b> <ul style="list-style-type: none"> <li>The fuel system shall be integral with the engine. In addition to the standard fuel filters provided by the engine manufacturer, there shall also be installed a primary fuel filter/ water separator in the fuel inlet line to the engine.</li> <li>All fuel piping shall be black iron or flexible fuel hose rated for this service. No galvanized piping will be permitted.</li> <li>Flexible fuel lines shall be minimally rated for 300 degrees F and 100 psi.</li> </ul>	<p>Complied</p> <p><i>ABDUL MAJID SHABBIR</i> Senior Engineer (Electrical) NESPAK (A&amp;P DIV), Karachi</p>	<p>Complied</p> <p><i>Dr. YAHYA KHAN TUNJO</i> MBBS, D.M.PH. Deputy Director Jinnah Postgraduate Medical Centre Karachi</p>	<p>Not complied</p> <p>Required primary fuel with water separator is not offered in technical bid.</p> <p><i>Prof. Dr. Tariq Mahmood</i> MBBS, D.M.RD, FCPS Head Department of Radiology, Cyberlife Institute Radio-surgery Oncology Jinnah Postgraduate Medical Centre Karachi</p>	M/s Allied Engineering and M/s Greaves Pakistan have complied, whereas M/s R.A. Engineering not complied.
3.2	<b>Exhaust System</b> <p><b>Silencer</b></p> <ul style="list-style-type: none"> <li>A residential grade silencer, companion flanges, and flexible stainless steel exhaust fitting properly sized shall be furnished and installed according to the manufacturer's recommendation.</li> <li>Mounting shall be provided by the contractor as shown on the drawings.</li> <li>The silencer shall be mounted so that its weight is not supported by the engine nor will exhaust system growth due to thermal expansion be imposed on the engine.</li> <li>Exhaust pipe size shall be sufficient to</li> </ul>	<p>Complied</p> <p>Residential grade silencer of 35 db is submitted in technical bid.</p> <p><i>Dr. Abdul Jabbar</i> Deputy Director (Dev't) Jinnah Postgraduate Medical Centre Karachi</p>	<p>Complied</p> <p>Residential grade silencer of 29 db is submitted in technical bid.</p> <p><i>(Abdul Rasheed Shaikh)</i> Executive Engineer Electrical / Energy-I Karachi</p>	<p>Not complied</p> <p>Industrial silencer is submitted in technical bid.</p> <p><i>MUHAMMAD WASIULLAH</i> Assistant Accountant General office of the Accountant General Sindh Karachi</p>	M/s Allied Engineering and M/s Greaves Pakistan have complied, whereas M/s R.A. Engineering not complied.

	ensure that exhaust back-pressure does not exceed the maximum limitations specified by the engine manufacturer.				
3.3	<b>Starting System</b>				
	<ul style="list-style-type: none"> <li>▪ <b>Starting Motor</b> A DC electric starting system with positive engagement shall be furnished. The motor voltage shall be as recommended by the engine manufacturer.</li> <li>▪ <b>Jacket Water Heater</b> Jacket water heater shall be provided and shall be sized to insure that Genset will start within the specified time period and ambient conditions.</li> <li>▪ <b>Batteries</b> Batteries - Maintenance free battery set (Dry Cell) of the heavy-duty diesel starting type shall be provided. Battery voltage shall be compatible with the starting system.</li> <li>▪ <b>Battery Charger</b> Battery Charger - A current limiting battery charger shall be furnished to automatically recharge batteries. The charger shall be dual charge rate with automatic switching to the boost rate when required. The battery charger shall be mounted on the genset package or inside the genset enclosure/room.</li> </ul>	<p>Complied</p> <p>Starting motor, Jacket water heater, dry batteries &amp; battery charger is submitted in technical bid.</p> <p><b>ABDUL MAJID SHABBIR</b> Senior Engineer (Electrical) NESPAK (A&amp;P DIV), Karachi</p>	<p>Complied</p> <p>Starting motor, Jacket water heater, dry batteries &amp; battery charger is submitted in technical bid.</p> <p><b>Dr. YAHYA KHAN TUNIO</b> MBBS, DCN.MPH. Deputy Director Jinnah Postgraduate Medical Centre Karachi</p>	<p>Not complied</p> <p>Starting motor is submitted, whereas Jacket water heater, dry batteries and battery charger is not submitted in technical bid.</p> <p><b>Prof. Dr. TARIQ MAHMOOD</b> MBBS, FMRD, FCPS Head Department of Radiology, Cyberknife Robotic Radiosurgery Oncology Jinnah Postgraduate Medical Centre Karachi</p>	<p>M/s Allied Engineering and M/s Greaves Pakistan have complied, whereas M/s R.A. Engineering not complied.</p>
4.	<b>General</b>				
4.1	<b>References and Standards</b>				
	<p>The generator set covered by these specifications shall be designed, tested, rated, assembled and installed in strict accordance with all applicable standards below:</p> <ul style="list-style-type: none"> <li>• CSA C22.2 No14</li> <li>• CSA 282</li> <li>• CSA 100</li> <li>• EN61000-6</li> <li>• EN55011</li> </ul>	<p>Complied</p>	<p>Complied</p> <p><b>(Abdul Jabbar)</b> Executive Engineer Electrical / Energy Karachi</p>	<p>Complied</p>	<p>All bidders complied.</p> <p><b>MUHAMMAD WASIULLAH</b> Assistant Accounts Officer Sindh Karachi</p>

	<ul style="list-style-type: none"> <li>FCC Part 15 Subpart B</li> <li>ISO8528</li> <li>ISO3046</li> <li>IEC61000</li> <li>UL508</li> <li>UL2200</li> <li>UL142</li> <li>NEMA MG 1-22, 1-33</li> <li>Designed to allow for installed compliance to NFPA 70, NFPA99 and NFPA 110</li> </ul>				
<b>4.2</b>	<b>Work Included</b>				
	<ul style="list-style-type: none"> <li><b>Fuel System</b> The CONTRACTOR shall provide a fuel tank of diesel fuel for the completion of all testing.</li> <li><b>System Test</b> A complete system load test shall be performed after all equipment is installed. Guidelines in the Start-up Section.</li> <li><b>Requirements, Codes and Regulations</b> The equipment supplied and installed shall meet the requirements of above standards. All equipment shall be of new and current production by OEM who has 25 years of experience building this type of equipment. Manufacturer shall be ISO9001 certified.</li> </ul>	<p>Complied</p> <p>No deviation against clause 4.2 in technical bid submitted.</p> <p><b>ABDUL MAJID SHABBIR</b> Senior Engineer (Electrical) NESPAK (A&amp;P DIV), Karachi</p>	<p>Complied</p> <p>No deviation against clause 4.2 in technical bid submitted.</p> <p><b>Dr. YAHYA KHAN TUNIO</b> MBBS, DCN, MPH. Deputy Director Jinnah Postgraduate Medical Centre Karachi</p>	<p>Complied</p> <p>No deviation against clause 4.2 in technical bid submitted.</p> <p><b>PROF. DR. TARIQ MAHMOOD</b> MBBS, DMRD, FCPs Head Department of Radiology, Cyberknife Robotic Radiosurgery Oncology Jinnah Postgraduate Medical Centre Karachi</p>	<p>All bidders complied.</p>
<b>4.3</b>	<b>Submittals</b>				
	<ul style="list-style-type: none"> <li><b>Engine-generator submittals shall include the following information:</b> <ol style="list-style-type: none"> <li>Factory published specification sheet.</li> <li>Manufacturer's catalog cut sheets of all auxiliary components such as battery charger, control panel, enclosure, etc.</li> <li>Dimensional elevation and layout drawings of the generator set and related accessories.</li> </ol> </li> </ul>	<p>Complied</p> <p>No deviation against clause 4.3 in technical bid submitted.</p> <p><b>(Abdul Majid Shaikh)</b> Executive Engineer Electrical / Energy-1 Karachi</p>	<p>Complied</p> <p>No deviation against clause 4.3 in technical bid submitted.</p>	<p>Complied</p> <p>No deviation against clause 4.3 in technical bid submitted.</p>	<p>All bidders complied.</p> <p><b>MUHAMMAD WASIULLAH</b> Assistant Accounts Officer office of the Accountant General Sindh Karachi</p>


	<ol style="list-style-type: none"> <li>4. Weights of all equipment.</li> <li>5. Interconnect wiring diagram of complete emergency system, including generator battery charger, control panel.</li> <li>6. Engine mechanical data, including heat rejection, exhaust gas flows, combustion air and ventilation air flows, fuel consumption, etc.</li> <li>7. Generator electrical data including temperature and insulation data, cooling requirements, excitation ratings, voltage regulation, voltage regulator, efficiencies.</li> <li>8. Generator resistances, reactance's and time constants.</li> <li>9. Generator Locked Rotor Motor starting curves.</li> <li>10. Manufacturer's documentation showing maximum expected transient voltage and frequency dips, and recovery time during operation of the generator set at the specified site conditions with the specified loads.</li> <li>11. OEM's written warranty.</li> </ol>	 <b>ABDUL MAJID SHABBIR</b> Senior Engineer (Electrical) NESPAK (A&P DIV), Karachi	 <b>Dr. YAHYA KHAN TUNIO</b> M.B.S., D.C.N., MPH. Deputy Director Jinnah Postgraduate Medical Centre Karachi		 <b>PROF. Dr. TARIQ MAHMOOD</b> M.B.S., D.M.R.D., FCPS Head Department of Radiology, Cyberknife Robotic Radiosurgery Oncology Jinnah Postgraduate Medical Centre Karachi	
4.4	<b>System Responsibility</b>	(Abdul Rasheed Shaikh) Executive Engineer Electrical / Energy-1 Karachi	Complied	Complied	Complied	All bidders complied.
	<ul style="list-style-type: none"> <li>▪ <b>Generator Set Dealer</b> The completed engine generator set shall be supplied by the OEM's authorized dealer only.</li> </ul>	Complied Authorized Dealer Certificate from Manufacturer "Caterpillar" submitted in technical bid.	Complied Sale Authorization Certificate from manufacturer "Kohler SDMO" submitted in technical bid.	Complied Authorized Dealer Certificate from Manufacturer "MTU" submitted in technical bid.	 <b>MUHAMMAD WASIULLAH</b> Assistant Accounts Officer Office of the Accountant General South Karachi	
4.5	<b>Warranty</b>					
	<b>Prime (ISO 8528-1: PRP) Rated Generator Set Warranty</b> <ul style="list-style-type: none"> <li>▪ The OEM's standard warranty shall include complete replacement against</li> </ul>	Complied	Complied	Not complied No documentary evidence found in	M/s Ahmed Engineering and M/s Greaves Pakistan have complied, whereas M/s R.A.	


	<p>manufacturing defects and in no event be for a period of less than <b>five (5) years</b> from date of initial start-up of the system including with service contract; shall include consumables, overhauling works, repair or replace original parts, labor, and reasonable travel expense necessary for repairs at the job site.</p> <ul style="list-style-type: none"> <li>Running hours shall not be a limiting factor for the system warranty by either the manufacturer or servicing Dealer.</li> <li>Submittals received without written warranties as specified will be rejected in their entirety.</li> </ul>	 <b>ABDUL MAJID SHABBIR</b> Senior Engineer (Electrical) NESPAK (A&P DIV), Karachi	 <b>Dr. YAHYAKHAN TUNIO</b> MBBS, DCN, MPH. Deputy Director Postgraduate Medical Centre Karachi	technical bid.	Engineering not complied.
<b>4.6</b>	<b>Parts and Service Qualifications</b>				
	<ul style="list-style-type: none"> <li><b>Service Facility</b> The engine-generator supplier shall maintain 24-hour parts and service capability within 100 miles of the project site. The Dealer shall stock parts as needed to support the generator set package for this specific project. The supplier must carry sufficient inventory to cover no less than 80% parts service within 24 hrs and 95% within 48 hours.</li> <li><b>Service Personnel</b> The dealer shall maintain qualified factory trained service personnel.</li> </ul>	<p>Complied</p> <p>Affidavit on judicial stamp paper for 24 hour service and 10 years spare parts submitted in technical bid.</p>  (Abdul Sheed Shaikh) Executive Engineer Electrical / Energy-I Karachi	<p>Complied</p> <p>Affidavit on judicial stamp paper for 24 hour service and 10 years spare parts submitted in technical bid.</p>  Dr. Abdul Jabbar Jinnah Postgraduate Medical Centre Karachi	<p>Not Complied</p> <p>No documentary evidence submitted in technical bid.</p>	<p>M/s Allied Engineering and M/s Greaves Pakistan have complied, whereas M/s R.A. Engineering not complied.</p>  <b>PROF. Dr. TARIQ MAHMOOD</b> MBBS, DMRD, FCPS Head Department of Radiology, Cyberknife Robotic Radiosurgery Oncology Jinnah Postgraduate Medical Centre, Karachi
<b>5</b>	<b>Execution</b>				
	<ul style="list-style-type: none"> <li><b>Start-Up and Testing</b> Coordinate all start-up and testing activities with the Engineer and Owner. After installation is complete and normal power is available, the manufacturer's local dealer shall perform the following:           <ol style="list-style-type: none"> <li>Perform the load bank test at 1.0 PF at full name plate rating as per latest revision of applicable International</li> </ol> </li> </ul>	<p>Complied</p> <p>No deviation against clause 5 in technical bid.</p>	<p>Complied</p> <p>No deviation against clause 5 in technical bid.</p>	<p>Complied</p> <p>No deviation against clause 5 in technical bid.</p>	<p>All bidders complied.</p>  <b>MUHAMMAD WASIULLAH</b> Assistant Accounts Officer office of the Accountant General Sindh Karachi


	<p>standard. Load Bank, Cables and other equipment required for this test to be supplied to the customer.</p> <ul style="list-style-type: none"> <li>▪ <b>Operation and Maintenance Manuals</b> Provide two (2) sets of operation and maintenance manuals covering the generator, and auxiliary components. Include final as-built wiring interconnect diagrams and recommended preventative maintenance schedules.</li> <li>▪ <b>Training</b> <b>On-Site Training</b> Provide on-site training to instruct the owner's personnel during commissioning in the proper operation and maintenance of the equipment. Review operation and maintenance manuals, parts manuals, and emergency service procedures.</li> </ul>	 <b>ABDUL MAJID SHABBIR</b> Senior Engineer (Electrical) NESPAC (A&P DIV), Karachi	 <b>Dr. YAHYA KHAN TUNIO</b> MBBS, DCN, MPH. Deputy Director Jinnah Postgraduate Medical Centre Karachi		 <b>Dr. Abdul Jabbar</b> Deputy Director (Dev't) Health Department
	<b>Other terms and conditions</b>				 <b>PROF. Dr. TARIQ MAHMOOD</b> MBBS, DMRD, F.C.P.S. Head Department of Radiology CyberKnife Institute, Radiotherapy & Oncology Jinnah Postgraduate Medical Centre
	<b>Site planning</b> <ul style="list-style-type: none"> <li>▪ The Contracting firm shall visit the site before submission of tender and ensure that cost of all necessary electrical boards/cables/earthling needed to install and commissioning the complete system is included in the tender cost for the two units 1500 kVA Generating Sets.</li> </ul>	Complied  No deviation against clause 5 Other terms and conditions in technical bid.	Complied  No deviation against clause 5 Other terms and conditions in technical bid.	Complied  No deviation against clause 5 Other terms and conditions in technical bid.	All bidders complied.
	For technical bid each vendor is requested to fill up the above mentioned Performa with the desired information in the last column, on the same MS word format in yes or no form with verifiable references (along with proper pagination, paragraph & line description)	Complied  <b>Abdul Majid Shabbir</b> Executive Engineer Electrical / Energy-I Karachi	Complied	Complied	All bidders complied.
	Vendor must also enclose a soft copy on CD/USB in addition to hard copy for technical evaluation committee	Submitted	Submitted	Not submitted	M/s  <b>MUHAMMAD WASIULLAH</b> Accounting and Accounts Officer Office of the Accountant General Sindh Karachi Pakistan have whereas M/s R.A. Engineering not complied.
	Only OEM Dealers in Pakistan or manufacturer are eligible to participate	Complied	Complied	Complied	All bidders complied.
	Pricing of optional configuration and post	No optional	No optional	No optional	All bidders have not




warranty terms should be quoted separately.	configuration and post warranty terms mentioned in technical bid.	configuration and post warranty terms mentioned in technical bid.	configuration and post warranty terms mentioned in technical bid.	submitted optional configuration and post warranty terms in technical bid.
Technical evaluation will be based on the standard configuration with accessories of the whole unit.	Complied	Complied	Not complied	M/s Allied Engineering and M/s Greaves Pakistan have complied, whereas M/s R.A. Engineering not complied.
The bidder must indicate the number of 1500 kVA Generating Sets installed within Pakistan especially in health sector and letter of satisfaction from the end user.	Sufficient experience	Limited experience	No experience	M/s Allied Engineering and M/s Greaves Pakistan have complied, whereas M/s R.A. Engineering not complied.
Required Financial capability as per bidding documents.	Complied	Complied	Not Complied	M/s Allied Engineering and M/s Greaves Pakistan have complied, whereas M/s R.A. Engineering not complied.
<b>Quality Safety Standards:</b>				
Country of Manufacture and origin should be USA/UK/Europe/Japan and equipment approval of their respective quality standards is mandatory.	Complied Country of manufacturing and origin is Caterpillar, USA.	Complied Country of manufacturing and origin is Kohler SDMO - France.	Complied Country of manufacturing and origin of Engine is Germany and Alternator is Europe.	All bidders complied.
<b>Conclusion</b>				
M/s Allied Engineering & Services (Pvt.) Ltd and M/s Greaves Pakistan (Pvt.) Ltd meets the required bid evaluation criteria and technical specifications, hence technically qualified. Whereas M/s R.A Engineering & Services (Pvt.) Ltd. does not meet the bid evaluation and required technical specifications hence not qualified technically.				


  
**ABDUL MAJID SHABBIR**  
 (Mr. Abdul Majid Shabbir)  
 Senior Engineer (Electrical)  
 Co-Opted Member & Executive Engineer (Nespak), Karachi  
 Representative from Nespak, Karachi  
 NESPAK (A&P) Dept Karachi


  
 (Abdul Rasheed Shaikh)  
 Executive Engineer  
 Member & Executive Engineer (Energy-I)  
 Representative from Works & Services Department (E/M  
 Division) Karachi

  
**MUZAMMIL WASIULLAH**  
 Member & Executive from  
 Accountant General's Office (Sindh), Karachi  
 Office of the Accountant General  
 Sindh Karachi

  
 (Dr. Abdul Jabbar Memon)  
 Member & Deputy Director (Dev)  
 Representative from Health Department,  
 Govt. of Sindh, Karachi

  
 (Dr. Yahya Khan Tunio)  
 Secretary/Member & Deputy Director  
 Jinnah Postgraduate Medical Centre,  
 Karachi

  
 (Prof. Tariq Mahmood)  
 Chairman & Head of Radiology, Cyberknife & Oncology Department  
 Jinnah Postgraduate Medical Centre, Karachi

  
**PROF. DR. TARIQ MAHMOOD**  
 Head Department of Radiology,  
 Cyberknife & Oncology  
 Jinnah Postgraduate Medical Centre, Karachi  
 FICS, FRCR, FRCR (S), FRCR (R), FRCR (N), FRCR (C), FRCR (A), FRCR (P), FRCR (S), FRCR (M), FRCR (D), FRCR (O), FRCR (U), FRCR (I), FRCR (E), FRCR (G), FRCR (H), FRCR (J), FRCR (K), FRCR (L), FRCR (N), FRCR (O), FRCR (P), FRCR (Q), FRCR (R), FRCR (S), FRCR (T), FRCR (U), FRCR (V), FRCR (W), FRCR (X), FRCR (Y), FRCR (Z)



**TECHNICAL EVALUATION REPORT**  
(As per details provided by the participants / bidders)


(2)

**TENDER FOR SUPPLY & INSTALLATION OF 1500 kVA TRANSFORMERS (TWO UNITS)  
FOR SURGICAL COMPLEX AT JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI.**


Supply & Installation of 1500 kVA Transformers (Two Units) for Surgical Complex Jinnah Postgraduate Medical Centre, Karachi.	
Technical Comparative Statement of Tender No.F.1-349/2016-17-(P&D)/JPMC	Opened on 18-05-2017


NO BIDDER PARTICIPATED


  
**(M. MAJID SHABBIR)**  
**Senior Engineer (Electrical)**  
Co-Opted Member & Senior Engineer (Nespak), Karachi  
Representative from Nespak, Karachi  
**NESPAK (A&P Div), Karachi**

  
**(Mr. Abdul Rasheed Shaikh)**  
**Executive Engineer (Energy-I)**  
Member & Executive Engineer (Energy-I)  
Representative from Works & Services Department (E/M  
Division)

  
**MUHAMMAD WASILLAH**  
**Assistant Accountant General**  
Member & Representative from  
Accountant General (Sindh), Karachi

  
**(Dr. Abdul Jabbar Memon)**  
Member & Deputy Director (Dev)  
Representative from Health Department,  
Govt. of Sindh, Karachi

  
**(Dr. Yahya Khan Tunio)**  
Secretary/Member & Deputy Director  
Jinnah Postgraduate Medical Centre,  
Karachi

  
**(Prof. Tariq Mahmood)**  
Chairman & Head of Radiology, Cyberknife & Oncology Department  
Jinnah Postgraduate Medical Centre, Karachi

  
**PROF. TARIQ MAHMOOD**  
**FCPS**  
Head of Radiology, Cyberknife & Oncology Department  
Jinnah Postgraduate Medical Centre, Karachi

**TECHNICAL EVALUATION REPORT**  
(As per details provided by the participants / bidders)

(3)

**TENDER FOR SUPPLY & INSTALLATION OF 625 kVA UPS  
FOR SURGICAL COMPLEX AT JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI.**

Supply & Installation of 625 kVA UPS for Surgical Complex Jinnah Postgraduate Medical Centre, Karachi.					
Technical Comparative Statement of Tender No.F.1-349/2016-17-(P&D)/JPMC					Opened on 18-05-2017
SR #	DESCRIPTION	Greaves Pakistan Ltd	M/s BIOS	M/s NETLINE	Remarks
1	80 kVA THREE PHASE TO THREE PHASE ONLINE UPS WITH BATTERIES	Eaton 93PM UPS	UPS-MAK Level Series	MASTERYS GP - Green Power 2.0	
1.1	Must be true online double conversion IGBT technology	Complied	Complied	Complied	All bidders complied.
1.2	Should be completely digitally controlled	Complied	Complied	Complied	All bidders complied.
1.3	Should have remote communication and monitoring options	Complied	Complied	Complied	All bidders complied.
1.4	Should have emergency power off switch	Complied	Complied	Complied	All bidders complied.
1.5	Should have auto restarting capabilities	Complied	Complied	Complied	All bidders complied.
1.6	Operating temperature: 15°C - 30°C or better	Complied	Complied	Complied	All bidders complied.
1.7	Storage temperature: 15°C - 40°C or better	Complied	Complied	Complied	All bidders complied.
1.8	Should have advanced battery management for optimum charging and discharging	Complied	Complied	Complied	All bidders complied.
1.9	Should have 400 real time event logs with detailed parameters or more	Complied	Complied	Complied	All bidders complied.
1.10	Dual input supply (optional)	Complied	Complied	Complied	All bidders complied.
1.11	Should have a small footprint to save space and easy maintenance	Complied	Complied	Complied	All bidders complied.
1.12	Should be compatible with standby generator	Complied	Complied	Complied	All bidders complied.
1.13	Static Bypass Switch	Complied	Complied	Complied	All bidders complied.
1.14	Manual Operated Bypass Switch with Enclosure. (ABB, Schneider)	Complied	Complied	Complied	All bidders complied.
2	INPUT				All bidders complied.
2.1	Voltage range: 380VAC ± 15% three phase + Neutral + Earth or better.	Complied	Complied	Complied	All bidders complied.
2.2	Input frequency range: 50Hz-60Hz (selectable) or better	Complied	Complied	Complied	All bidders complied.
2.3	Harmonic distortion: <4% or better	Complied	Complied	Complied	All bidders complied.
	OUTPUT				All bidders complied.

*(Abdul Rasheed Shaikh)*  
Executive Engineer  
Electrical Energy-1  
Karachi

*ABDUL MAJID SHABBAR*  
Senior Engineer (Electrical)  
NESPAK (A&P DIV), Karachi

*Dr. YAHYA KHAN JUNIO*  
MEBS, DCN, MPH.  
Deputy Director  
Jinnah Postgraduate Medical Centre  
Karachi

*MUHAMMAD WASIULLAH*  
Assistant Accounts Officer  
Office of the Accounts Officer  
Sindh Karachi

*PROF. DR. FARID ULLAH*  
Head Department of Pathology  
Cyberkette Road, Jinnah Postgraduate Medical Centre, Karachi

*Dr. Abdul Rasheed Shaikh*  
Executive Engineer  
Electrical Energy-1  
Karachi

3.1	Voltage: 380vac $\pm$ 2% three phase + Neutral or better	Complied	Complied	Complied	All bidders complied.
3.2	Power factor: 1.0	Complied	Complied	Complied	All bidders complied.
3.3	Output frequency range: 50Hz $\pm$ 1% synchronous with utility or generator / 50Hz $\pm$ 0.5% battery mode or better	Complied	Complied	Complied	All bidders complied.
3.4	Normal mode efficiency: 90% or better	Complied	Complied	Complied	All bidders complied.
3.5	Economy mode efficiency: 95% or better	Complied	Complied	Complied	All bidders complied.
3.6	Overload operation: at 125% load 10min, at 150% load 1min or better	Complied	Complied	Complied	All bidders complied.
3.6	Harmonic distortion: <3% (linear load), < 6% (non-linear load) or better	Complied	Complied	Complied	All bidders complied.
4	<b>PROTECTIONS</b>				All bidders complied.
4.1	IP20 protection class or better	Complied	Complied	Complied	All bidders complied.
4.2	Input voltage out of tolerance safety	Complied	Complied	Complied	All bidders complied.
4.3	Input phase failure protection	Complied	Complied	Complied	All bidders complied.
4.4	Output voltage out of tolerance protection	Complied	Complied	Complied	All bidders complied.
4.5	Output phase failure protection	Complied	Complied	Complied	All bidders complied.
4.6	Output overload protection	Complied	Complied	Complied	All bidders complied.
4.7	Failure due to overheating protection	Complied	Complied	Complied	All bidders complied.
4.8	Output short circuit protection	Complied	Complied	Complied	All bidders complied.
5	<b>BATTERIES</b>				All bidders complied.
5.1	External 12Volts sealed lead acid maintenance free batteries must be from the same manufacturer	Complied	Complied	Complied	All bidders complied.
5.2	Should have variable charger current	Complied	Complied	Complied	All bidders complied.
5.3	Should have 0ms transfer time to battery	Complied	Complied	Complied	All bidders complied.
5.4	Should have 0ms transfer time to bypass	Complied	Complied	Complied	All bidders complied.
5.5	5minutes to 8minutes backup or better	Complied	Complied	Complied	All bidders complied.
5.6	Battery Cabinet must be provided	Complied	Complied	Complied	All bidders complied.
6	<b>PARALLEL / REDUNDANT OPERATION</b>				All bidders complied.
6.1	Must have autosensing for disconnection of parallel cable	Complied	Complied	Complied	All bidders complied.
6.2	Must have equal current share between parallel units via DSP (Digital Signal Processor)	Complied	Complied	Complied	All bidders complied.
6.3	All parallel systems should be able to be controlled from one control panel of a ups	Complied	Complied	Complied	All bidders complied.
6.4	Must have isolated parallel cards	Complied	Complied	Complied	All bidders complied.
6.5	Complete paralleling kits should be included	Complied	Complied	Complied	All bidders complied.
	<b>CERTIFICATIONS</b>				All bidders complied.

Dr. Abdul Jaleel  
Senior Director (Development)  
Health Department

ABDUL MAJID SHABBIR  
Senior Engineer (Electrical)  
NESPAK (A&P DIV), Karachi

Dr. YAKHIA KHAN JUNIO  
M.B.S.DCN.MPH.  
Deputy Director  
Jinnah Postgraduate Medical Centre  
Karachi

MUHAMMAD WASIULLAH  
Assistant Account Officer  
Office of the Accountant General  
Sindh Karachi

PROF. Dr. TARIQ M. AHMED  
MESUR, FCGP  
Head Department of Cyber Security  
Cyber Centre  
Jinnah Postgraduate Medical Centre  
Karachi

7.1	ISO 9001, ISO 14001 and ISO 18001	Complied	Complied	Complied	All bidders complied.
7.2	EN 62040-3	Complied	Complied	Complied	All bidders complied.
7.3	EN 62040-2, EN 62040-1 & EN 60950	Complied	Complied	Complied	All bidders complied.
7.4	CE marked	Complied	Complied	Complied	All bidders complied.
8	<b>WARRANTY</b>				All bidders complied.
8.1	5 years for UPS	Complied	Complied	Complied	All bidders complied.
8.2	2 years for Batteries	Complied	Complied	Complied	All bidders complied.
8.3	Warranty will start after installation, commissioning and handover of UPS Systems	Complied No deviation against clause 8.3 in technical bid submitted.	Complied No deviation against clause 8.3 in technical bid submitted.	Complied No deviation against clause 8.3 in technical bid submitted.	All bidders complied.
9	<b>COUNTRY OF MANUFACTURING &amp; ORIGIN</b>				
9.1	USA/UK/EUROPE/JAPAN	Finland	Germany	Italy	All bidders complied.
9.2	Bidder will be responsible of complete installation and demonstration	Complied No deviation against clause 9.2 in technical bid submitted.	Complied No deviation against clause 9.2 in technical bid submitted.	Complied No deviation against clause 9.2 in technical bid submitted.	All bidders complied.
10	<b>60kVA THREE PHASE TO THREE PHASE ONLINE UPS WITH BATTERIES</b>	Eaton 93PM UPS	UPS-MAK Level Series	MASTERYS GP - Green Power 2.0	All bidders complied.
10.1	Must be true online double conversion IGBT technology	Complied	Complied	Complied	All bidders complied.
10.2	Should be completely digitally controlled	Complied	Complied	Complied	All bidders complied.
10.3	Should have remote communication and monitoring options	Complied	Complied	Complied	All bidders complied.
10.4	Should have emergency power off switch	Complied	Complied	Complied	All bidders complied.
10.5	Should have auto restarting capabilities	Complied	Complied	Complied	All bidders complied.
10.6	Operating temperature: 15°C - 40°C or better	Complied	Complied	Complied	All bidders complied.
10.7	Storage temperature: 15°C - 40°C or better	Complied	Complied	Complied	All bidders complied.
10.8	Should have advanced battery management for optimum charging and discharging	Complied	Complied	Complied	All bidders complied.
10.9	Should have 400 real time event logs with detailed parameters or more	Complied	Complied	Complied	All bidders complied.
10.10	Dual input supply (optional)	Complied	Complied	Complied	All bidders complied.
10.11	Should have a small footprint to save space and easy maintenance	Complied	Complied	Complied	All bidders complied.

**MUHAMMAD WASULLAH**  
Assistant Accounts Officer  
Office of the Accountant General  
Sindh Karachi

**PROF. DR. TARIQ AHMAD**  
FCPS  
Head of the Department  
Jinnah Postgraduate Medical Centre  
Karachi

**Dr. YAHYA KHAN JUNIO**  
D.Phil., M.B.S., D.C.N., M.P.H.  
Postgraduate Medical Centre  
Karachi

**ABDUL MAJID SHABIB**  
Senior Engineer (Electrical)  
NESPAK (A&P DIV), Karachi

**Dr. Abdul Jalil**  
Senior Engineer (Electrical)  
NESPAK (A&P DIV), Karachi



10.12	Should be compatible with standby generator	Complied	Complied	Complied	All bidders complied.
10.13	Static Bypass Switch	Complied	Complied	Complied	All bidders complied.
10.14	Manual Operated Bypass Switch with Enclosure (ABB, Schneider)	Complied	Complied	Complied	All bidders complied.
<b>11</b>	<b>INPUT</b>				All bidders complied.
11.1	Voltage range: 380VAC $\pm$ 15% three phase + Neutral + Earth or better.	Complied	Complied	Complied	All bidders complied.
11.2	Input frequency range: 50Hz-60Hz (selectable) or better	Complied	Complied	Complied	All bidders complied.
11.3	Harmonic distortion: <4% or better	Complied	Complied	Complied	All bidders complied.
<b>12</b>	<b>OUTPUT</b>				All bidders complied.
12.1	Voltage: 380vac $\pm$ 2% three phase + Neutral or better	Complied	Complied	Complied	All bidders complied.
12.2	Power factor: 1.0	Complied	Complied	Complied	All bidders complied.
12.3	Output frequency range: 50Hz $\pm$ 1% synchronous with utility or generator / 50Hz $\pm$ 0.5% battery mode or better	Complied	Complied	Complied	All bidders complied.
12.4	Normal mode efficiency: 90% or better	Complied	Complied	Complied	All bidders complied.
12.5	Economy mode efficiency: 95% or better	Complied	Complied	Complied	All bidders complied.
12.6	Overload operation: at 125% load 10min, at 150% load 1min or better	Complied	Complied	Complied	All bidders complied.
12.7	Harmonic distortion: <3% (linear load), < 6% (non-linear load) or better	Complied	Complied	Complied	All bidders complied.
<b>13</b>	<b>PROTECTIONS</b>				All bidders complied.
13.1	IP20 protection class or better	Complied	Complied	Complied	All bidders complied.
13.2	Input voltage out of tolerance safety	Complied	Complied	Complied	All bidders complied.
13.3	Input phase failure protection	Complied	Complied	Complied	All bidders complied.
13.4	Output voltage out of tolerance protection	Complied	Complied	Complied	All bidders complied.
13.5	Output phase failure protection	Complied	Complied	Complied	All bidders complied.
13.6	Output overload protection	Complied	Complied	Complied	All bidders complied.
13.7	Failure due to overheating protection	Complied	Complied	Complied	All bidders complied.
13.8	Output short circuit protection	Complied	Complied	Complied	All bidders complied.
<b>14</b>	<b>BATTERIES</b>				All bidders complied.
14.1	External 12V volts sealed lead acid maintenance free batteries must be from the same manufacturer	Complied	Complied	Complied	All bidders complied.
14.2	Should have variable charger current	Complied	Complied	Complied	All bidders complied.
14.3	Should have 0ms transfer time to battery	Complied	Complied	Complied	All bidders complied.
14.4	Should have 0ms transfer time to bypass	Complied	Complied	Complied	All bidders complied.
14.5	5minutes to 8minutes backup or better	Complied	Complied	Complied	All bidders complied.

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 Deputy Director  
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Dr. Abdul Wahid  
 Deputy Director  
 Health Directorate

14.6	Battery Cabinet must be included	Complied	Complied	Complied	All bidders complied.
15	<b>PARALLEL / REDUNDANT OPERATION</b>				All bidders complied.
15.1	Must have autosensing for disconnection of parallel cable	Complied	Complied	Complied	All bidders complied.
15.2	Must have equal current share between parallel units via DSP (Digital Signal Processor)	Complied	Complied	Complied	All bidders complied.
15.3	All parallel systems should be able to be controlled from one control panel of a ups	Complied	Complied	Complied	All bidders complied.
15.4	Must have isolated parallel cards	Complied	Complied	Complied	All bidders complied.
15.5	Complete paralleling kits should be included Or equivalent	Complied	Complied	Complied	All bidders complied.
16	<b>CERTIFICATIONS</b>				All bidders complied.
16.1	ISO 9001, ISO 14001 and ISO 18001	Complied	Complied	Complied	All bidders complied.
16.2	EN 62040-3	Complied	Complied	Complied	All bidders complied.
16.3	EN 62040-2, EN 62040-1 & EN 60950	Complied	Complied	Complied	All bidders complied.
16.4	CE marked	Complied	Complied	Complied	All bidders complied.
17	<b>WARRANTY</b>				All bidders complied.
17.1	5 years for UPS	Complied	Complied	Complied	All bidders complied.
17.2	2 years for Batteries	Complied	Complied	Complied	All bidders complied.
17.3	Warranty will start after installation, commissioning and handover of UPS Systems	Complied	Complied	Complied	All bidders complied.
		No deviation against clause 17.3 in technical bid submitted.	No deviation against clause 17.3 in technical bid submitted.	No deviation against clause 17.3 in technical bid submitted.	
18	<b>COUNTRY OF MANUFACTURING &amp; ORIGIN</b>				All bidders complied.
18.1	USA/UK/EUROPE/JAPAN	Finland	Germany	Italy	All bidders complied.
18.2	Bidder will be responsible of complete installation and demonstration	Complied	Complied	Complied	All bidders complied.
		No deviation against clause 18.2 in technical bid submitted.	No deviation against clause 18.2 in technical bid submitted.	No deviation against clause 18.2 in technical bid submitted.	
19	<b>50kVA THREE PHASE TO THREE PHASE ONLINE UPS WITH BATTERIES</b>	Eaton 93PM UPS	UPS-MAK Level Series	MASTERYS GP - Green Power 2.0	All bidders complied.
19.1	Must be true online double conversion IGBT technology	Complied	Complied	Complied	All bidders complied.
19.2	Should be completely digitally controlled	Complied	Complied	Complied	All bidders complied.
19.3	Should have remote communication	Complied	Complied	Complied	All bidders complied.

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Dep. Director  
Jinnah Postgraduate Medical Centre  
Karachi

	monitoring options				
19.4	Should have emergency power off switch	Complied	Complied	Complied	All bidders complied.
19.5	Should have auto restarting capabilities	Complied	Complied	Complied	All bidders complied.
19.6	Operating temperature: 15°C - 30°C or better	Complied	Complied	Complied	All bidders complied.
19.7	Storage temperature: 15°C - 40°C or better	Complied	Complied	Complied	All bidders complied.
19.8	Should have advanced battery management for optimum charging and discharging	Complied	Complied	Complied	All bidders complied.
19.9	Should have 400 real time event logs with detailed parameters or more	Complied	Complied	Complied	All bidders complied.
19.10	Dual input supply (optional)	Complied	Complied	Complied	All bidders complied.
19.11	Should have a small footprint to save space and easy maintenance	Complied	Complied	Complied	All bidders complied.
19.12	Should be compatible with standby generator	Complied	Complied	Complied	All bidders complied.
19.13	Static Bypass Switch	Complied	Complied	Complied	All bidders complied.
19.14	Manual Operated Bypass Switch with Enclosure (ABB, Schneider)	Complied	Complied	Complied	All bidders complied.
20	INPUT				
20.1	Voltage range: 380VAC $\pm$ 15% three phase + Neutral + Earth or better.	Complied	Complied	Complied	All bidders complied.
20.2	Input frequency range: 50Hz-60Hz (selectable) or better	Complied	Complied	Complied	All bidders complied.
20.3	Harmonic distortion: <4% or better	Complied	Complied	Complied	All bidders complied.
21	OUTPUT				
21.1	Voltage: 380vac $\pm$ 2% three phase + Neutral or better	Complied	Complied	Complied	All bidders complied.
21.2	Power factor: 1.0	Complied	Complied	Complied	All bidders complied.
21.3	Output frequency range: 50Hz $\pm$ 1% synchronous with utility or generator / 50Hz $\pm$ 0.5% battery mode or better	Complied	Complied	Complied	All bidders complied.
21.4	Normal mode efficiency: 90% or better	Complied	Complied	Complied	All bidders complied.
21.5	Economy mode efficiency: 95% or better	Complied	Complied	Complied	All bidders complied.
21.6	Overload operation: at 125% load 10min, at 150% load 1min or better	Complied	Complied	Complied	All bidders complied.
21.7	Harmonic distortion: <3% (linear load), < 6% (non-linear load) or better	Complied	Complied	Complied	All bidders complied.
22	PROTECTIONS				
22.1	IP20 protection class or better	Complied	Complied	Complied	All bidders complied.
22.2	Input voltage out of tolerance safety	Complied	Complied	Complied	All bidders complied.
22.3	Input phase failure protection	Complied	Complied	Complied	All bidders complied.
22.4	Output voltage out of tolerance safety	Complied	Complied	Complied	All bidders complied.

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Dr. Abdul Wahid  
 Senior Engineer (Electrical)  
 NESPAK (A&P DIV), Karachi



22.5	Output phase failure protection	Complied	Complied	Complied	All bidders complied.
22.6	Output overload protection	Complied	Complied	Complied	All bidders complied.
22.7	Failure due to overheating protection	Complied	Complied	Complied	All bidders complied.
22.8	Output short circuit protection	Complied	Complied	Complied	All bidders complied.
<b>23</b>	<b>BATTERIES</b>				All bidders complied.
23.1	Internal/External 12Volts sealed lead acid maintenance free batteries must be from the same manufacturer	Complied	Complied	Complied	All bidders complied.
23.2	Should have variable charger current	Complied	Complied	Complied	All bidders complied.
23.3	Should have 0ms transfer time to battery	Complied	Complied	Complied	All bidders complied.
23.4	Should have 0ms transfer time to bypass	Complied	Complied	Complied	All bidders complied.
23.5	5minutes to 8minutes backup or more	Complied	Complied	Complied	All bidders complied.
23.6	Battery Cabinet must be included	Complied	Complied	Complied	All bidders complied.
<b>24</b>	<b>PARALLEL / REDUNDANT OPERATION</b>				All bidders complied.
24.1	Must have autosensing for disconnection of parallel cable	Complied	Complied	Complied	All bidders complied.
24.2	Must have equal current share between parallel units via DSP (Digital Signal Processor)	Complied	Complied	Complied	All bidders complied.
24.3	All parallel systems should be able to be controlled from one control panel of a ups	Complied	Complied	Complied	All bidders complied.
24.4	Must have isolated parallel cards	Complied	Complied	Complied	All bidders complied.
24.5	Complete paralleling kits should be included	Complied	Complied	Complied	All bidders complied.
<b>25</b>	<b>CERTIFICATIONS</b>				All bidders complied.
25.1	ISO 9001, ISO 14001 and ISO 18001	Complied	Complied	Complied	All bidders complied.
25.2	EN 62040-3	Complied	Complied	Complied	All bidders complied.
25.3	EN 62040-2, EN 62040-1 & EN 60950	Complied	Complied	Complied	All bidders complied.
25.4	CE marked	Complied	Complied	Complied	All bidders complied.
<b>26</b>	<b>WARRANTY</b>				All bidders complied.
26.1	5 years for UPS	Complied	Complied	Complied	All bidders complied.
26.2	2 years for Batteries	Complied	Complied	Complied	All bidders complied.
26.3	Warranty will start after installation, commissioning and handover of UPS systems / Energy	Complied	Complied	Complied	All bidders complied.
27	<b>COUNTRY OF MANUFACTURING &amp; ORIGIN</b>				All bidders complied.
27.1	USA/UK/EUROPE/JAPAN	Finland	Germany	Italy	All bidders complied.
27.2	Bidder will be responsible of complete installation and demonstration	Complied	Complied	Complied	All bidders complied.

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Dr. Abdul Jabbar  
Senior Director  
NFSPAK

		No deviation against clause 27.2 in technical bid submitted.	No deviation against clause 27.2 in technical bid submitted.	No deviation against clause 27.2 in technical bid submitted.	
28	40 kVA THREE PHASE TO THREE PHASE ONLINE UPS WITH BATTERIES	Eaton 93PS UPS	UPS-MAK Level Series	MASTERYS GP - Green Power 2.0	All bidders complied.
28.1	Must be true online double conversion IGBT technology	Complied	Complied	Complied	All bidders complied.
28.2	Should be completely digitally controlled	Complied	Complied	Complied	All bidders complied.
28.3	Should have remote communication and monitoring options	Complied	Complied	Complied	All bidders complied.
28.4	Should have emergency power off switch	Complied	Complied	Complied	All bidders complied.
28.5	Should have auto restarting capabilities	Complied	Complied	Complied	All bidders complied.
28.6	Operating temperature: 15°C - 30°C or better	Complied	Complied	Complied	All bidders complied.
28.7	Storage temperature: 15°C - 40°C or better	Complied	Complied	Complied	All bidders complied.
28.8	Should have advanced battery management for optimum charging and discharging	Complied	Complied	Complied	All bidders complied.
28.9	Should have 400 real time event logs with detailed parameters or more	Complied	Complied	Complied	All bidders complied.
28.10	Dual input supply (optional)	Complied	Complied	Complied	All bidders complied.
28.11	Should have a small footprint to save space and easy maintenance	Complied	Complied	Complied	All bidders complied.
28.12	Should be compatible with standby generator	Complied	Complied	Complied	All bidders complied.
28.13	Static Bypass Switch	Complied	Complied	Complied	All bidders complied.
28.14	Manual Operated Bypass Switch with Enclosure (ABB, Schneider)	Complied	Complied	Complied	All bidders complied.
29	INPUT				All bidders complied.
29.1	Voltage range: 380VAC $\pm$ 15% three phase Neutral + Earth or better.	Complied	Complied	Complied	All bidders complied.
29.2	Input frequency range: 50Hz-60Hz (selectable) or better	Complied	Complied	Complied	All bidders complied.
29.3	Harmonic distortion: <4% or better	Complied	Complied	Complied	All bidders complied.
30	OUTPUT				All bidders complied.
30.1	Voltage: 380vac $\pm$ 2% three phase + Neutral or better	Complied	Complied	Complied	All bidders complied.
30.2	Power factor: 1.0	Complied	Complied	Complied	All bidders complied.
30.3	Output frequency range: 50Hz $\pm$ 1% synchronous with utility or generator / 50Hz $\pm$ 0.5% battery mode or better	Complied	Complied	Complied	All bidders complied.
30.4	Normal mode efficiency: 90% or better	Complied	Complied	Complied	All bidders complied.

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Dr. YAHYA KHAN TANIQ  
MBBS, DCN, MPH.  
Director  
Medical Centre  
Jinnah Postgraduate  
University  
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30.5	Economy mode efficiency: 95% or better	Complied	Complied	Complied	All bidders complied.
30.6	Overload operation: at 125% load 10min, at 150% load 1min or better	Complied	Complied	Complied	All bidders complied.
30.7	Harmonic distortion: <3% (linear load), < 6% (non-linear load) or better	Complied	Complied	Complied	All bidders complied.
31	<b>PROTECTIONS</b>				All bidders complied.
31.1	IP20 protection class or better	Complied	Complied	Complied	All bidders complied.
31.2	Input voltage out of tolerance safety	Complied	Complied	Complied	All bidders complied.
31.3	Input phase failure protection	Complied	Complied	Complied	All bidders complied.
31.4	Output voltage out of tolerance protection	Complied	Complied	Complied	All bidders complied.
31.5	Output phase failure protection	Complied	Complied	Complied	All bidders complied.
31.6	Output overload protection	Complied	Complied	Complied	All bidders complied.
31.7	Failure due to overheating protection	Complied	Complied	Complied	All bidders complied.
31.8	Output short circuit protection	Complied	Complied	Complied	All bidders complied.
32	<b>BATTERIES</b>				All bidders complied.
32.2	Internal/External 12Volts sealed lead acid maintenance free batteries must be from the same manufacturer	Complied	Complied	Complied	All bidders complied.
32.3	Should have variable charger current	Complied	Complied	Complied	All bidders complied.
32.4	Should have 0ms transfer time to battery	Complied	Complied	Complied	All bidders complied.
32.5	Should have 0ms transfer time to bypass	Complied	Complied	Complied	All bidders complied.
32.6	5minutes to 8minutes backup or more	Complied	Complied	Complied	All bidders complied.
32.7	Battery Cabinet must be included	Complied	Complied	Complied	All bidders complied.
33	<b>PARALLEL / REDUNDANT OPERATION</b>				All bidders complied.
33.1	Must have autosensing for disconnection of parallel cable	Complied	Complied	Complied	All bidders complied.
33.2	Must have equal current share between parallel units via DSP (Digital Signal Processor)	Complied	Complied	Complied	All bidders complied.
33.3	All parallel systems should be able to be controlled from one control panel of a up	Complied	Complied	Complied	All bidders complied.
33.4	Must have isolated parallel cards	Complied	Complied	Complied	All bidders complied.
33.5	Complete paralleling kits should be included	Complied	Complied	Complied	All bidders complied.
34	<b>CERTIFICATIONS</b>				All bidders complied.
34.1	ISO 9001, ISO 14001 and ISO 18001	Complied	Complied	Complied	All bidders complied.
34.2	EN 62040-3	Complied	Complied	Complied	All bidders complied.
34.3	EN 62040-2, EN 62040-1 & EN 60950	Complied	Complied	Complied	All bidders complied.
34.4	CE marked	Complied	Complied	Complied	All bidders complied.
35	<b>WARRANTY</b>				All bidders complied.
35.1	5 years for UPS	Complied	Complied	Complied	All bidders complied.
35.2	2 years for Batteries	Complied	Complied	Complied	All bidders complied.

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 Deputy Director  
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Dr. Abdul Wahid  
 Family Director  
 NESPAC (A&P DIV), Karachi

35.3	Warranty will start after installation, commissioning and handover of UPS Systems	Complied  No deviation against clause 35.3 in technical bid submitted.	Complied  No deviation against clause 35.3 in technical bid submitted.	Complied  No deviation against clause 35.3 in technical bid submitted.	All bidders complied.
36	<b>COUNTRY OF MANUFACTURING &amp; ORIGIN</b>				All bidders complied.
36.1	USA/UK/EUROPE/JAPAN	Finland	Germany	Italy	All bidders complied.
36.1	Bidder will be responsible of complete installation and demonstration	Complied  No deviation against clause 36.1 in technical bid submitted.	Complied  No deviation against clause 36.1 in technical bid submitted.	Complied  No deviation against clause 36.1 in technical bid submitted.	All bidders complied.
37	<b>30 kVA THREE PHASE TO THREE PHASE ONLINE UPS WITH BATTERIES</b>	Eaton 93PS UPS	UPS-MAK Level Series	MASTERYS GP - Green Power 2.0	All bidders complied.
37.1	Must be true online double conversion IGBT technology	Complied	Complied	Complied	All bidders complied.
37.2	Should be completely digitally controlled	Complied	Complied	Complied	All bidders complied.
37.3	Should have remote communication and monitoring options	Complied	Complied	Complied	All bidders complied.
37.4	Should have emergency power off switch	Complied	Complied	Complied	All bidders complied.
37.5	Should have auto restarting capabilities	Complied	Complied	Complied	All bidders complied.
37.6	Operating temperature: 15°C - 30°C or better	Complied	Complied	Complied	All bidders complied.
37.7	Storage temperature: 15°C - 40°C or better	Complied	Complied	Complied	All bidders complied.
37.8	Should have advanced battery management for optimum charging and discharging	Complied	Complied	Complied	All bidders complied.
37.9	Should have 400 real time event logs with detailed parameters or more	Complied	Complied	Complied	All bidders complied.
37.10	Dual input supply (optional)	Complied	Complied	Complied	All bidders complied.
37.11	Should have a small footprint to save space and easy maintenance	Complied	Complied	Complied	All bidders complied.
37.12	Should be compatible with standby generator	Complied	Complied	Complied	All bidders complied.
37.13	Static Bypass Switch	Complied	Complied	Complied	All bidders complied.
37.14	Manual Operated Bypass Switch with Enclosure (ABB, Schneider)	Complied	Complied	Complied	All bidders complied.
38	<b>INPUT</b>				All bidders complied.
38.1	Voltage range: 380VAC $\pm$ 15% three phase + Neutral + Earth or better.	Complied	Complied	Complied	All bidders complied.

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38.2	Input frequency range: 50Hz-60Hz (selectable) or better	Complied	Complied	Complied	All bidders complied.
38.3	Harmonic distortion: <4% or better	Complied	Complied	Complied	All bidders complied.
<b>39</b>	<b>OUTPUT</b>				All bidders complied.
39.1	Voltage: 380vac $\pm$ 2% three phase + Neutral or better	Complied	Complied	Complied	All bidders complied.
39.2	Power factor: 1.0	Complied	Complied	Complied	All bidders complied.
39.3	Output frequency range: 50Hz $\pm$ 1% synchronous with utility or generator / 50Hz $\pm$ 0.5% battery mode or better	Complied	Complied	Complied	All bidders complied.
39.4	Normal mode efficiency: 90% or better	Complied	Complied	Complied	All bidders complied.
39.5	Economy mode efficiency: 95% or better	Complied	Complied	Complied	All bidders complied.
39.6	Overload operation: at 125% load 10min, at 150% load 1min or better	Complied	Complied	Complied	All bidders complied.
39.7	Harmonic distortion: <3% (linear load), < 6% (non-linear load) or better	Complied	Complied	Complied	All bidders complied.
<b>40</b>	<b>PROTECTIONS</b>				All bidders complied.
40.1	IP20 protection class or better	Complied	Complied	Complied	All bidders complied.
40.2	Input voltage out of tolerance safety	Complied	Complied	Complied	All bidders complied.
40.3	Input phase failure protection	Complied	Complied	Complied	All bidders complied.
40.4	Output voltage out of tolerance protection	Complied	Complied	Complied	All bidders complied.
40.5	Output phase failure protection	Complied	Complied	Complied	All bidders complied.
40.6	Output overload protection	Complied	Complied	Complied	All bidders complied.
40.7	Failure due to overheating protection	Complied	Complied	Complied	All bidders complied.
40.8	Output short circuit protection	Complied	Complied	Complied	All bidders complied.
<b>41</b>	<b>BATTERIES</b>				All bidders complied.
41.1	Internal/External 12Volts sealed lead acid maintenance free batteries must be from the same manufacturer	Complied	Complied	Complied	All bidders complied.
41.2	Should have variable charger current	Complied	Complied	Complied	All bidders complied.
41.3	Should have 0ms transfer time to battery	Complied	Complied	Complied	All bidders complied.
41.4	Should have 0ms transfer time to bypass	Complied	Complied	Complied	All bidders complied.
41.5	5minutes to 8minutes backup or more	Complied	Complied	Complied	All bidders complied.
41.6	Battery Cabinet must be included	Complied	Complied	Complied	All bidders complied.
<b>42</b>	<b>PARALLEL / REDUNDANT OPERATION</b>				All bidders complied.
42.1	Must have autosensing for disconnection of parallel cable	Complied	Complied	Complied	All bidders complied.
42.2	Must have equal current share between parallel units via DSP (Digital Signal Processor)	Complied	Complied	Complied	All bidders complied.
42.3	All parallel systems should be able to	Complied	Complied	Complied	All bidders complied.

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Senior Engineer (Electrical)  
NESPAK (A&P DIV), Karachi

	controlled from one control panel of a ups				
42.4	Must have isolated parallel cards	Complied	Complied	Complied	All bidders complied.
42.5	Complete paralleling kits should be included	Complied	Complied	Complied	All bidders complied.
43	<b>CERTIFICATIONS</b>				All bidders complied.
43.1	ISO 9001, ISO 14001 and ISO 18001	Complied	Complied	Complied	All bidders complied.
43.2	EN 62040-3	Complied	Complied	Complied	All bidders complied.
43.3	EN 62040-2, EN 62040-1 & EN 60950	Complied	Complied	Complied	All bidders complied.
43.4	CE marked	Complied	Complied	Complied	All bidders complied.
44	<b>WARRANTY</b>				All bidders complied.
44.1	5 years for UPS	Complied	Complied	Complied	All bidders complied.
44.2	2 years for Batteries	Complied	Complied	Complied	All bidders complied.
44.3	Warranty will start after installation, commissioning and handover of UPS Systems	No deviation against clause 44.3 in technical bid submitted.	No deviation against clause 44.3 in technical bid submitted.	No deviation against clause 44.3 in technical bid submitted.	All bidders complied.
45	<b>COUNTRY OF MANUFACTURING &amp; ORIGIN</b>				All bidders complied.
45.1	USA/UK/EUROPE/JAPAN	Finland	Germany	Italy	All bidders complied.
45.2	Bidder will be responsible of complete installation and demonstration	Complied No deviation against clause 45.2 in technical bid submitted.	Complied No deviation against clause 45.2 in technical bid submitted.	Complied No deviation against clause 45.2 in technical bid submitted.	All bidders complied.
46	<b>20kVA THREE PHASE TO THREE PHASE ONLINE UPS WITH BATTERIES</b>	Eaton 93PS UPS	UPS-MAK Level Series	MASTERYS GP - Green Power 2.0	All bidders complied.
46.1	Must be true online double conversion IGBT technology	Complied	Complied	Complied	All bidders complied.
46.2	Should be completely digitally controlled	Complied	Complied	Complied	All bidders complied.
46.3	Should have remote communication and monitoring options	Complied	Complied	Complied	All bidders complied.
46.4	Should have emergency power off switch	Complied	Complied	Complied	All bidders complied.
46.5	Should have auto restarting capabilities	Complied	Complied	Complied	All bidders complied.
46.6	Operating temperature: 15°C - 30°C or better	Complied	Complied	Complied	All bidders complied.
46.7	Storage temperature: 15°C - 40°C or better	Complied	Complied	Complied	All bidders complied.
46.8	Should have advanced battery management for optimum charging and discharging	Complied	Complied	Complied	All bidders complied.
46.9	Should have 400 real time event	Complied	Complied	Complied	All bidders complied.

**MUHAMMAD WASIULLAH**  
Assistant Account Officer  
Office of the Accounts General  
Sindh Karachi

**Abdul Rashid Shaikh**  
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**PROF. DR. TARIQ MAHMOOD**  
MBBS, FRCR, FRCR  
Head Department of Technology  
Cybernetics Research Institute  
Jinnah Postgraduate Medical Centre

**Dr. Abdul Jabbar**  
Deputy Director  
MBSPAK (A&P DIV), Karachi

**Dr. YAHYA KIANI**  
MBBS, FRCR, FRCR  
Director  
Jinnah Postgraduate Medical Centre  
Karachi



	detailed parameters or more				
46.10	Dual input supply (optional)	Complied	Complied	Complied	All bidders complied.
46.11	Should have a small footprint to save space and easy maintenance	Complied	Complied	Complied	All bidders complied.
46.12	Should be compatible with standby generator	Complied	Complied	Complied	All bidders complied.
46.13	Static Bypass Switch	Complied	Complied	Complied	All bidders complied.
46.14	Manual Operated Bypass Switch with Enclosure (ABB, Schneider)	Complied	Complied	Complied	All bidders complied.
47	<b>INPUT</b>				All bidders complied.
47.1	Voltage range: 380VAC $\pm$ 15% three phase + Neutral + Earth or better.	Complied	Complied	Complied	All bidders complied.
47.2	Input frequency range: 50Hz-60Hz (selectable) or better	Complied	Complied	Complied	All bidders complied.
47.3	Harmonic distortion: <4% or better	Complied	Complied	Complied	All bidders complied.
48	<b>OUTPUT</b>				All bidders complied.
48.1	Voltage: 380vac $\pm$ 2% three phase + Neutral or better	Complied	Complied	Complied	All bidders complied.
48.2	Power factor: 1.0	Complied	Complied	Complied	All bidders complied.
48.3	Output frequency range: 50Hz $\pm$ 1% synchronous with utility or generator / 50Hz $\pm$ 0.5% battery mode or better	Complied	Complied	Complied	All bidders complied.
48.4	Normal mode efficiency: 90% or better	Complied	Complied	Complied	All bidders complied.
48.5	Economy mode efficiency: 95% or better	Complied	Complied	Complied	All bidders complied.
48.6	Overload operation: at 125% load 10min, at 150% load 1min or better	Complied	Complied	Complied	All bidders complied.
48.7	Harmonic distortion: <3% (linear load), < 6% (non-linear load) or better	Complied	Complied	Complied	All bidders complied.
49	<b>PROTECTIONS</b>				All bidders complied.
49.1	IP20 protection class or better	Complied	Complied	Complied	All bidders complied.
49.2	Input voltage out of tolerance safety	Complied	Complied	Complied	All bidders complied.
49.3	Input phase failure protection (Abdul Rasheed Sheikh)	Complied	Complied	Complied	All bidders complied.
49.4	Output voltage out of tolerance protection (Executive Electrical / Karachi)	Complied	Complied	Complied	All bidders complied.
49.5	Output phase failure protection	Complied	Complied	Complied	All bidders complied.
49.6	Output overload protection	Complied	Complied	Complied	All bidders complied.
49.7	Failure due to overheating protection	Complied	Complied	Complied	All bidders complied.
49.8	Output short circuit protection	Complied	Complied	Complied	All bidders complied.
50	<b>BATTERIES</b>				All bidders complied.
50.1	Internal/External 12Volts sealed lead acid maintenance free batteries must be from the same manufacturer	Complied	Complied	Complied	All bidders complied.

MUHAMMAD WASIULLAH  
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Office of the Accounts General  
Sindh Karachi

PROF. Dr. Tahir  
Head of the Department  
Cybernetics, Institute of Technology  
Jinnah Postgraduate Medical Centre, Karachi

Dr. Abdul  
Senior Engineer (Electrical)  
NESPAK (A&P DIV), Karachi

Dr. YAHYA KHAN JUNIO  
MBBS, DCN, MCH  
Deputy Director  
Jinnah Postgraduate Medical Centre  
Karachi

50.2	Should have variable charger current	Complied	Complied	Complied	All bidders complied.
50.3	Should have 0ms transfer time to battery	Complied	Complied	Complied	All bidders complied.
50.4	Should have 0ms transfer time to bypass	Complied	Complied	Complied	All bidders complied.
50.5	5minutes to 8minutes backup or more	Complied	Complied	Complied	All bidders complied.
50.6	Battery Cabinet must be included	Complied	Complied	Complied	All bidders complied.
51	<b>PARALLEL / REDUNDANT OPERATION</b>				All bidders complied.
51.1	Must have autosensing for disconnection of parallel cable	Complied	Complied	Complied	All bidders complied.
51.2	Must have equal current share between parallel units via DSP (Digital Signal Processor)	Complied	Complied	Complied	All bidders complied.
51.3	All parallel systems should be able to be controlled from one control panel of a ups	Complied	Complied	Complied	All bidders complied.
51.4	Must have isolated parallel cards	Complied	Complied	Complied	All bidders complied.
51.5	Complete paralleling kits should be included	Complied	Complied	Complied	All bidders complied.
52	<b>CERTIFICATIONS</b>				All bidders complied.
52.1	ISO 9001, ISO 14001 and ISO 18001	Complied	Complied	Complied	All bidders complied.
52.2	EN 62040-3	Complied	Complied	Complied	All bidders complied.
52.3	EN 62040-2, EN 62040-1 & EN 60950	Complied	Complied	Complied	All bidders complied.
52.4	CE marked	Complied	Complied	Complied	All bidders complied.
53	<b>WARRANTY</b>				All bidders complied.
53.1	5 years for UPS	Complied	Complied	Complied	All bidders complied.
53.2	2 years for Batteries	Complied	Complied	Complied	All bidders complied.
53.3	Warranty will start after installation, commissioning and handover of UPS Systems	Complied	Complied	Complied	All bidders complied.
		No deviation against clause 53.3 in technical bid submitted.	No deviation against clause 53.3 in technical bid submitted.	No deviation against clause 53.3 in technical bid submitted.	
54	<b>COUNTRY OF MANUFACTURING &amp; ORIGIN</b>				All bidders complied.
54.1	USA/UK/EUROPE/JAPAN	(Abdul Rasheed Shaikh)	Germany	Italy	All bidders complied.
54.2	Bidder will be responsible of complete installation and demonstration	Complied No deviation against clause 54.2 in technical bid submitted.	Complied No deviation against clause 54.2 in technical bid submitted.	Complied No deviation against clause 54.2 in technical bid submitted.	All bidders complied.
55	<b>15 kVA THREE PHASE TO THREE PHASE ONLINE UPS WITH BATTERIES</b>	Eaton 93PS UPS	UPS-MAKO level Series	MASTERYS Green Power 2.0	All bidders complied.
55.1	Must be true online double conversion IGBT	Complied	Complied	Complied	All bidders complied.

MUHAMMAD WAJID UL HAQ  
Assistant & Accounts Officer  
office of the Deputy Commandant  
Signal, Karachi

(Abdul Rasheed Shaikh)  
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Electrical / Energy-1  
Karachi

PROF. DR. TARIQ MAHMOOD  
MBBS, DMRD, FCPS  
Head, Department of Radiology,  
Cybernetics Radiotherapy Centre, Karachi  
Injunct Postgraduate Medical Centre, Karachi

ABDUL MAJID SHABBAR  
Senior Engineer (Electrical)  
TESPAK (A&P DIV), Karachi

DR. YAHYA KHAN  
MBBS, DCN, MPH.  
Deputy Director  
Injunct Postgraduate Medical Centre  
Karachi

	technology				
55.2	Should be completely digitally controlled	Complied	Complied	Complied	All bidders complied.
55.3	Should have remote communication and monitoring options	Complied	Complied	Complied	All bidders complied.
55.4	Should have emergency power off switch	Complied	Complied	Complied	All bidders complied.
55.5	Should have auto restarting capabilities	Complied	Complied	Complied	All bidders complied.
55.6	Operating temperature: 15°C - 30°C or better	Complied	Complied	Complied	All bidders complied.
55.7	Storage temperature: 15°C - 40°C or better	Complied	Complied	Complied	All bidders complied.
55.8	Should have advanced battery management for optimum charging and discharging	Complied	Complied	Complied	All bidders complied.
55.9	Should have 400 real time event logs with detailed parameters or more	Complied	Complied	Complied	All bidders complied.
55.10	Dual input supply (optional)	Complied	Complied	Complied	All bidders complied.
55.11	Should have a small footprint to save space and easy maintenance	Complied	Complied	Complied	All bidders complied.
55.12	Should be compatible with standby generator	Complied	Complied	Complied	All bidders complied.
55.13	Static Bypass Switch	Complied	Complied	Complied	All bidders complied.
55.14	Manual Operated Bypass Switch with Enclosure (ABB, Schneider)	Complied	Complied	Complied	All bidders complied.
56	<b>INPUT</b>				
56.1	Voltage range: 380VAC $\pm$ 15% three phase + Neutral + Earth or better.	Complied	Complied	Complied	All bidders complied.
56.2	Input frequency range: 50Hz-60Hz (selectable) or better	Complied	Complied	Complied	All bidders complied.
56.3	Harmonic distortion: <4% or better	Complied	Complied	Complied	All bidders complied.
57	<b>OUTPUT</b>				
57.1	Voltage: 380vac $\pm$ 2% three phase + Neutral or better	Complied	Complied	Complied	All bidders complied.
57.2	Power factor: 1.0	Complied	Complied	Complied	All bidders complied.
57.3	Output frequency range: 50Hz $\pm$ 1% synchronous with utility or generator / 50Hz $\pm$ 0.5% battery mode or better	Complied	Complied	Complied	All bidders complied.
57.4	Normal mode efficiency: 90% or better	Complied	Complied	Complied	All bidders complied.
57.5	Economy mode efficiency: 95% or better	Complied	Complied	Complied	All bidders complied.
57.6	Overload operation: at 125% load 10min, at 150% load 1min or better	Complied	Complied	Complied	All bidders complied.
57.7	Harmonic distortion: <3% (linear load), < 6% (non-linear load) or better	Complied	Complied	Complied	All bidders complied.
58	<b>PROTECTIONS</b>				
58.1	IP20 protection class or better	Complied	Complied	Complied	All bidders complied.

**MUHAMMAD WASIULLAH**  
 Assistant Accounts Officer  
 office of the Accountant General  
 Sindh Karachi

**Abdul Majid Shaikh**  
 Executive Engineer  
 Electrical / Energy-I  
 Karachi

**PROF. DR. TARIQ MAHMUD**  
 Head Department of Technology  
 Cybernetics Robotics and Technology  
 Innova Postgraduate Institute of Technology  
 Islamabad

**Dr. Abdul Wahid**  
 Deputy Director  
 Health Care

**ABDUL MAJID SHABBIR**  
 Senior Engineer (Electrical)  
 NESPAK (A&P DIV), Karachi

**YAHYA KHAN TUNIO**  
 MBES, BSN, MPH.  
 Deputy Director  
 Health Postgraduate Medical College  
 Karachi

58.2	Input voltage out of tolerance safety	Complied	Complied	Complied	All bidders complied.
58.3	Input phase failure protection	Complied	Complied	Complied	All bidders complied.
58.4	Output voltage out of tolerance protection	Complied	Complied	Complied	All bidders complied.
58.5	Output phase failure protection	Complied	Complied	Complied	All bidders complied.
58.6	Output overload protection	Complied	Complied	Complied	All bidders complied.
58.7	Failure due to overheating protection	Complied	Complied	Complied	All bidders complied.
58.8	Output short circuit protection	Complied	Complied	Complied	All bidders complied.
59	<b>BATTERIES</b>				All bidders complied.
59.1	Internal/External 12Volts sealed lead acid maintenance free batteries must be from the same manufacturer	Complied	Complied	Complied	All bidders complied.
59.2	Should have variable charger current	Complied	Complied	Complied	All bidders complied.
59.3	Should have 0ms transfer time to battery	Complied	Complied	Complied	All bidders complied.
59.4	Should have 0ms transfer time to bypass	Complied	Complied	Complied	All bidders complied.
59.5	5minutes to 8minutes backup or more	Complied	Complied	Complied	All bidders complied.
59.6	Battery Cabinet must be included	Complied	Complied	Complied	All bidders complied.
60	<b>PARALLEL / REDUNDANT OPERATION</b>				All bidders complied.
60.1	Must have autosensing for disconnection of parallel cable	Complied	Complied	Complied	All bidders complied.
60.2	Must have equal current share between parallel units via DSP (Digital Signal Processor)	Complied	Complied	Complied	All bidders complied.
60.3	All parallel systems should be able to be controlled from one control panel of a ups	Complied	Complied	Complied	All bidders complied.
60.4	Must have isolated parallel cards	Complied	Complied	Complied	All bidders complied.
60.5	Complete paralleling kits should be included	Complied	Complied	Complied	All bidders complied.
61	<b>CERTIFICATIONS</b>				All bidders complied.
61.1	ISO 9001, ISO 14001 and ISO 18001	Complied	Complied	Complied	All bidders complied.
61.2	EN 62040-3	Complied	Complied	Complied	All bidders complied.
61.3	EN 62040-2, EN 62040-1 & EN 60950	Complied	Complied	Complied	All bidders complied.
61.4	CE marked	Complied	Complied	Complied	All bidders complied.
62	<b>WARRANTY</b>				All bidders complied.
62.1	5 years for UPS	Complied	Complied	Complied	All bidders complied.
62.2	2 years for Batteries	Complied	Complied	Complied	All bidders complied.
62.3	Warranty will start after installation, commissioning and handover of UPS Systems The	Complied	Complied	Complied	All bidders complied.
63	<b>COUNTRY OF MANUFACTURE / ORIGIN</b>	No deviation against clause 62.3 in technical bid submitted.	No deviation against clause 62.3 in technical bid submitted.	No deviation against clause 62.3 in technical bid submitted.	All bidders complied.

MUHAMMAD WASIUJLAH  
Asst. Account Officer  
Office of the Accountant General  
Sindh, Karachi

(Abdul Rashid Sheikh)  
Executive Engineer  
Electrical  
Karachi





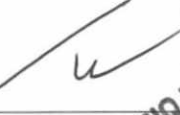
PROF. DR. TARIQ AHMED  
Head Department  
Karachi

ABDUL MAJID SHABIR  
Senior Engineer (Electrical)  
NESPAK (A&P DIV), Karachi


Dr. YAHYA KHAN TUNJO  
Deputy Director  
Jinnah Postgraduate Medical Centre  
Karachi

Mr. Ahsan Ali  
Senior Engineer  
Karachi




63.1	USA/UK/EUROPE/JAPAN	Finland	Germany	Italy	All bidders complied.
63.2	Bidder will be responsible of complete installation and demonstration	Complied  No deviation against clause 63.2 in technical bid submitted.	Complied  No deviation against clause 63.2 in technical bid submitted.	Complied  No deviation against clause 63.2 in technical bid submitted.	All bidders complied.
64	<b>SYSTEM RESPONSIBILITY (APPLICABLE TO ALL UPS UNITS)</b>				All bidders complied.
64.1	The complete UPS units shall be supplied by the OEM's authorized dealer only.	Complied  Manufacturer's authorization letter submitted in technical bid	Complied  Manufacturer's authorization letter submitted in technical bid	Complied  Manufacturer's authorization letter submitted in technical bid	All bidders complied.
65	<b>WARRANTY (APPLICABLE TO ALL UPS UNITS)</b>				All bidders complied.
65.1	<ul style="list-style-type: none"> <li>The OEM's standard warranty shall include complete replacement against manufacturing defects and in no event be for a period of less than five (5) years from date of initial start-up of the system including with service contract; shall include consumables, overhauling works, repair or replace original parts, labor, and reasonable travel expense necessary for repairs at the job site.</li> <li>Running hours shall not be a limiting factor for the system warranty by either the manufacturer or servicing Dealer.</li> <li>Submittals received without written warranties as specified will be rejected in their entirety.</li> </ul>	Complied    (Abdul Rasheed Shaikh) Executive Engineer Electrical / Energy-I Karachi	Complied	Complied    MUHAMMAD WASIULLAH Assistant Accounts Officer office of the Accountant General Sindh Karachi	All bidders complied.
66	<b>PARTS AND SERVICE QUALIFICATION (APPLICABLE TO ALL UPS UNITS)</b>				All bidders complied.
66.1	<ul style="list-style-type: none"> <li><b>Service Facility</b> The UPS supplier shall maintain 24-hour parts and service capability within 100 miles of the project site. The Dealer shall stock parts as needed to support the set package for this project.</li> </ul>	Complied    Dr. ABDUL JABBAR Senior Engineer (Electrical) NESPAC (A&P DIV), Karachi	Complied    Dr. YAHYA KHAN TUNIO MBBS, DCN, MPH, Deputy Director Jinnah Postgraduate Medical Centre Karachi	Complied    Prof. Dr. TARIQ MAHMOOD MBBS, DMRD, FCPS Head Department of Technology, Cyberknife Robotics Jinnah Postgraduate Medical Centre Karachi	All bidders complied.


	<p>supplier must carry sufficient inventory to cover no less than 80% parts service within 24 hrs and 95% within 48 hours.</p> <ul style="list-style-type: none"> <li><b>Service Personnel</b> The dealer shall maintain qualified factory trained service personnel.</li> </ul>				
67	<b>PARTS AND SERVICE QUALIFICATION (APPLICABLE TO ALL UPS UNITS)</b>				
67.1	<ul style="list-style-type: none"> <li><b>Start-Up and Testing</b> Coordinate all start-up and testing activities with the Engineer and Owner. After installation is complete and normal power is available, the manufacturer's local dealer shall perform the following: 2. Perform the test at full name plate rating as per latest revision of applicable International standard. Load Bank, Cables and other equipment required for this test to be supplied to the customer.</li> <li><b>Operation and Maintenance Manuals</b> Provide two (2) sets of operation and maintenance manuals covering the UPS, and auxiliary components. Include final as-built wiring interconnect diagrams and recommended preventative maintenance schedules.</li> <li><b>Training</b> <b>On-Site Training</b> Provide on-site training to instruct the owner's personnel during commissioning in the proper operation and maintenance of the equipment. Review operation maintenance manuals, parts manuals, and emergency service manuals.</li> </ul>	<p>Complied</p> <p>No deviation against clause 67.1 in technical bid submitted.</p>	<p>Complied</p> <p>No deviation against clause 67.1 in technical bid submitted.</p>	<p>Complied</p> <p>No deviation against clause 67.1 in technical bid submitted.</p>	<p>All bidders complied.</p>

  
(Abdul Rasheed Shaikh)  
Executive Engineer  
Electrical / Energy-I  
Karachi

  
**MUHAMMAD WASIULLAH**  
Assistant Accounts Officer  
Office of the Accountant General  
Sindh, Karachi

  
**Dr. YAHYA KHAN TUNIO**  
MBBS, DCN, MPH,  
Deputy Director  
Jinnah Postgraduate Medical Centre  
Karachi

  
**PROF. Dr. TARIQ MAHMOOD**  
MBBS, DMRD, FCR  
Head Department of Radiology,  
Cyberknife Robotic Radiosurgery Centre,  
Innash Postgraduate Medical Centre, Karachi

  
**ABDUL MAJID SHABBIR**  
Senior Engineer (Electrical)  
NESPAK (A&P DIV), Karachi



procedures.				
<b>Other terms and conditions</b>				All bidders complied.
<b>Site planning</b> <ul style="list-style-type: none"> <li>The Contracting firm shall visit the site before submission of tender and ensure that cost of all necessary electrical boards/cables/earthing needed to install and commissioning the complete system is included in the tender cost for the UPS.</li> </ul>	Complied  No deviation against clause 67.1 Other terms and conditions in technical bid submitted.	Complied  No deviation against clause 67.1 Other terms and conditions in technical bid submitted.	Complied  No deviation against clause 67.1 Other terms and conditions in technical bid submitted.	All bidders complied.
For technical bid each vendor is requested to fill up the above mentioned Performa with the desired information in the last column, on the same MS word format in yes or no form with verifiable references (along with proper pagination, paragraph & line description)	Complied	Complied	Complied	All bidders complied.
Vendor must also enclose a soft copy on CD/USB in addition to hard copy for technical evaluation committee	Submitted	Submitted	Submitted	All bidders complied.
Only OEM Dealers in Pakistan or manufacturer are eligible to participate	Complied  Remarks as per clause 64.1.	Complied  Remarks as per clause 64.1..	Complied  Remarks as per clause 64.1.	All bidders complied.
Pricing of optional configuration and post warranty terms should be quoted separately.	Not mentioned any optional configuration in technical bid.	Not mentioned any optional configuration in technical bid.	Not mentioned any optional configuration in technical bid.	All bidders not submitted optional configuration and post warranty terms in technical bid.
Technical evaluation will be based on the standard configuration with accessories of the whole unit.	Complied	Complied	Complied	
The bidder must indicate the number of UPS Rating installed within Pakistan especially in health sector and letter of satisfaction from the end user.	Sufficient Experience  (Abdul Rasheed Shaikh) Executive Engineer Electrical Energy-I Karachi	Sufficient Experience  Experience in Energy-I	Sufficient Experience	All bidders complied.
Required Financial capability as per bidding documents.	Complied	Complied	Complied	All bidders complied.
<b>Quality Safety Standards:</b>				
Country of Manufacture and origin should be USA/UK/Europe/Japan and equipment approval of their respective quality standards is mandatory.	Eaton, Finland	MAK, Germany	Socomec	All bidders complied.


**MUHAMMAD WASIULAH**  
 Assistant Accounts Officer  
 office of the Accounts General  
 Sindh Karachi


**PROF. Dr. TARIQ MAHMOOD**  
 MBBS, D.M.T.  
 Department of  
 Cybernetics, Robotics and  
 Innah Postgraduate


**Dr. Abdul Majid Shabbir**  
 Deputy Director  
 Health Department  
**ABDUL MAJID SHABBIR**  
 Senior Engineer (Electrical)  
 NESPAK (A&P DIV), Karachi


**Dr. YAHYA KHAN TUNIO**  
 MBBS, DCN, MPH.  
 Deputy Director  
 Innah Postgraduate Medical Centre  
 Karachi


Conclusion				
M/s Greaves Pakistan (Pvt.) Ltd., M/s BIOS., and M/s NETLINE(PK) meet the required bid evaluation and technical specifications, hence technically qualified.				

  
**ABDUL MAJID SHABBIR**  
 (Mr. Abdul Majid Shaikh)  
 Senior Engineer (Electrical)  
 o-Opted Member & Senior Engineer (Nespak), Karachi  
 Representative from Nespak, Karachi  
**NESPAK (A&E DIV), Karachi**

  
 (Mr. Abdul Rasheed Shaikh)  
 Member & Executive Engineer (Energy-I)  
 Representative from Works & Services Department (E/M  
 Division) Karachi  
**Executive Engineer (Energy-I)**  
**Works & Services Department (E/M Division)**  
**Karachi**

  
 (Mr. Muhammad Wasiullah)  
 Member & Assistant Accounts Officer  
 Representative from Accounts General (Sindh), Karachi  
**Assistant Accounts Officer**  
**Office of the Accounts General**  
**Sindh, Karachi**

  
 (Dr. Abdul Jabbar Memon)  
 Member & Deputy Director (Dev)  
 Representative from Health Department,  
 Govt. of Sindh, Karachi  
**Abdul Jabbar Memon**  
**Director (Dev)**  
**Health Department**  
**Govt. of Sindh, Karachi**

  
 (Dr. Yahya Khan Tunio)  
 Secretary/Member & Deputy Director  
 Jinnah Postgraduate Medical Centre,  
 Karachi  
**YAHYA KHAN TUNIO**  
**Secretary/Member & Deputy Director**  
**Jinnah Postgraduate Medical Centre**  
**Karachi**

  
 (Prof. Tariq Mahmood)  
 Chairman & Head of Radiology, Cyberknife & Oncology Department  
 Jinnah Postgraduate Medical Centre, Karachi  
**PROF. TARIQ MAHMOOD**  
**Chairman & Head of Radiology, Cyberknife & Oncology Department**  
**Jinnah Postgraduate Medical Centre, Karachi**

BIDDERS ELIGIBILITY / QUALIFICATION REPORT

( 1 )

TENDER FOR "SUPPLY & INSTALLATION OF 1500 KVA GENERATING SETS (TWO UNITS) FOR SURGICAL COMPLEX AT JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI FOR THE YEAR 2016-17.

S.No.	Particulars	M/s Allied Engineering & Services (Pvt.) Ltd.	M/s Greaves Pakistan (Pvt.) Ltd.	M/s RA Engineering & Services (Pvt.) Ltd.
1.	Original Tender purchased receipt	Yes	Yes	Yes
2.	Earnest money submission (Original attach with financial proposal and copy attach with technical proposal).	Yes	Yes	Yes
3.	Compliance of terms and conditions in original duly signed & Stamped.	Yes	Yes	Yes
4.	Copy of active sales tax registration certificate	Yes	Yes	Yes
5.	Copy of income tax certificate	Yes	Yes	Yes
6.	Copy of Pakistan Engineering Council Certificate	Yes	Yes	No
7.	Sole Agent / Authorized Distribution Certificate	Yes	Yes	Yes
8.	The bidder should have own in-house facility of minor and major overhauling works simultaneously for fuel pump injector calibration.	Yes (Abdul Washeed Shaikh) Executive Engineer Electrical / Energy-I Karachi	Yes	Yes
9.	The bidder must indicate the number of 1500 KVA Generating Sets installed within Pakistan especially in health sector	Yes	Yes	Yes
10.	Submission of original Catalogue with complete mailing address of the company, telephone / Fax Nos. and Web site for each quoted item.	Yes	Yes	Yes
11.	Remarks	Qualified	Qualified	Provisionally Qualified

**MUHAMMAD WASIULLAH**  
Assistant Accountant General  
Office of the Accountant General  
Sindh Karachi

**(Abdul Washeed Shaikh)**  
Executive Engineer  
Electrical / Energy-I  
Karachi

**PROF. DR. TARIQ MAHMOOD**  
MBBS, DMRD, FCS  
Head Department of Radiology,  
Jinnah Postgraduate Medical Centre, Karachi

**Dr. Abdul Jabbar**  
Deputy Director  
Health Department

**ABDUL MAJID SHABBIR**  
Senior Engineer (Electrical)  
NESPAK (A&P DIV), Karachi

**Dr. YAHYAKHAN TUNIO**  
MBBS, DCN, MPH.  
Deputy Director  
Jinnah Postgraduate Medical Centre  
Karachi


BIDDERS ELIGIBILITY / QUALIFICATION REPORT

( 2 )

TENDER FOR "SUPPLY & INSTALLATION OF 1500 KVA TRANSFORMERS (TWO UNITS) FOR SURGICAL COMPLEX AT JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI FOR THE YEAR 2016-17.

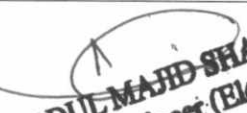
S.No.	Particulars	
1.	Original Tender purchased receipt	<p align="center">No Bidder Participated.</p>
2.	Earnest money submission (Original attach with financial proposal and copy attach with technical proposal).	
3.	Compliance of terms and conditions in original duly signed & Stamped.	
4.	Copy of active sales tax registration certificate	
5.	Copy of income tax certificate	
6.	Copy of Pakistan Engineering Council Certificate	
7.	Sole Agent / Authorized Distribution Certificate	
8.	The bidder should have own in-house facility of minor and major overhauling works simultaneously for fuel pump injector calibration.	
9.	The bidder must indicate the number of 1500 KVA Generating Sets installed within Pakistan especially in health sector	
10.	Submission of original Catalogue with complete mailing address of the company, telephone / Fax Nos. and Web site for each quoted item.	
11.	Remarks	


  
**MUHAMMAD WASIULLAH**  
 Assistant Accounts Officer  
 office of the Accountant General  
 Sindh Karachi

  
 (Abdul Rasheed Shaikh)  
 Executive Engineer  
 Electrical / Energy-I  
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**PROF. DR. TARIQ MAHMOOD**  
 MBBS, DMRD, FC  
 Head Department of Radiology  
 Cyberknife Robotic Radiosurgery  
 Jinnah Postgraduate Medical Centre

  
 Dr. Abdul Jabbar  
 Deputy Director (Health)  
 Health Department

  
**ABDUL MAJID SHABBIR**  
 Senior Engineer (Electrical)  
 NESPAK (A&P DIV), Karachi

  
**Dr. YAHYA KHAN TUNIO**  
 MBBS, DCN  
 Deputy Director  
 Jinnah Postgraduate Medical Centre  
 Karachi

BIDDERS ELIGIBILITY / QUALIFICATION REPORT

( 3 )

TENDER FOR "SUPPLY & INSTALLATION OF 625 kVA UPS FOR SURGICAL COMPLEX AT JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI FOR THE YEAR 2016-17.

S.No.	Particulars	M/s Greaves Pakistan (Pvt.) Ltd.	M/s Bios	M/s Net-Line (PK)
1.	Original Tender purchased receipt	Yes	Yes	Yes
2.	Earnest money submission (Original attach with financial proposal and copy attach with technical proposal).	Yes	Yes	Yes
3.	Compliance of terms and conditions in original duly signed & Stamped.	Yes	Yes	Yes
4.	Copy of active sales tax registration certificate	Yes	Yes	Yes
5.	Copy of income tax certificate	Yes	Yes	Yes
6.	Copy of Pakistan Engineering Council Certificate	Yes	Yes	Yes
7.	Sole Agent / Authorized Distribution Certificate	Yes	Yes	Yes
8.	The bidder should have own in-house facility of minor and major overhauling works simultaneously for fuel pump injector calibration.	Yes	Yes	Yes
9.	The bidder must indicate the number of 1500 KVA Generating Sets installed within Pakistan especially in health sector	Yes	Yes	Yes
10.	Submission of original Catalogue with complete mailing address of the company, telephone / Fax Nos. and Web site for each quoted item.	Yes	Yes	Yes
11.	Remarks	Qualified	Qualified	Qualified

**MUHAMMAD WASIULLAH**  
Assistant Accounts Officer  
Office of the Accountant General  
Sindh Karachi

**PROF. Dr. TARIQ MAHMOOD**  
MBBS, DMRD, FRCR  
Head Department of Radiology,  
Cytology & Robotic Radiosurgery Centre,  
Jinnah Postgraduate Medical Centre

**Abdul Rasheed Shaikh**  
Executive Engineer  
Electrical / Energy  
Karachi

**Mr. Abdul Jabbar**  
Deputy Director (Health)  
Health Department

**ABDUL MAJID SHABBIR**  
Senior Engineer (Electrical)  
NESPAC (A&P DIV), Karachi






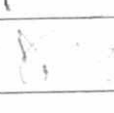
**Dr. YAHYA KHAN TUNIO**  
MBBS, DCN, MPH,  
Deputy Director  
Postgraduate Medical Centre  
Karachi

GOVERNMENT OF SINDH  
JINNAH POSTGRADUATE MEDICAL CENTRE  
KARACHI-75510

PROCUREMENT COMMITTEE ATTENDANCE SHEET

Dated the 18<sup>th</sup> May, 2017

SUBJECT:- OPENING OF TECHNICAL BIDS FOR THE TENDER "SUPPLY & INSTALLATION OF 1500 kVA GENERATING SETS (TWO UNITS), 1500 kVA TRANSFORMERS (TWO UNITS) 625 kVA UPS FOR SURGICAL COMPLEX THROUGH DEVELOPMENT SCHEME "PROVISION OF EQUIPMENT FOR SURGICAL COMPLEX AT JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI" FOR THE YEAR 2016-17.

S.No.	NAME & DESIGNATION	SIGNATURE
1.	Prof. Tariq Mahmood, Head of Radiology, Cyberknife & Oncology Dept., JPMC, Karachi. (Chairman)	
2.	Dr. Yahya Khan Deputy Director, JPMC, Karachi (Member/Secretary)	
3.	Dr. Abdul Jabbar Memon Deputy Director (Dev), Representative from Health Department, Govt. of Sindh. Karachi. (Member)	
4.	Mr. Abdul Rasheed Shaikh Executive Engineer (Energy-I) Representative from Works & Services Department (E/M Division) (Member)	
5.	Representative from Accountant General (Sindh) (Member)	
6.	Representative from Nespak (E/M Division) (Co-Member) <b>ABDUL MAJID SHABBIR</b> GENERAL MANAGER NESPAC	

**ABDUL MAJID SHABBIR**  
Senior Engineer (Electrical)  
NESPAC (A&P DIV), Karachi

**PROF. Dr. TARIQ MAHMOOD**  
MBBS, DMRD, FCPS  
Head Department of Radiology,  
Cyberknife Robotic Radiosurgery Oncology  
Jinnah Postgraduate Medical Centre Karachi

**(Abdul Rasheed Shaikh)**  
Executive Engineer  
Electrical / Energy-I  
Karachi

**MUHAMMAD WASIULLAH**  
Assistant Accounts Officer  
Office of the Accountant General  
Sindh Karachi



GOVERNMENT OF SINDH  
JINNAH POSTGRADUATE MEDICAL CENTRE  
KARACHI-75510

LIST OF FIRMS WHO ATTENDED THE TENDER MEETING

Dated the 18<sup>th</sup> May, 2017

SUBJECT:- OPENING OF TECHNICAL BIDS FOR THE TENDER "SUPPLY & INSTALLATION OF 1500 kVA GENERATING SETS (TWO UNITS), 1500 kVA TRANSFORMERS (TWO UNITS) 625 kVA UPS FOR SURGICAL COMPLEX THROUGH DEVELOPMENT SCHEME "PROVISION OF EQUIPMENT FOR SURGICAL COMPLEX AT JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI" FOR THE YEAR 2016-17.

S.No.	NAME OF FIRM	NAME & SIGNATURE	MOBILE NO.
1.	RA Engr & Services (GenSet)	FARAZ/ADEEL	0341-3316720
2.	ALLIED ENGR & SERVICES (GenSet)	TABEEN A. KHAN	0342-2329309
3.	Greaves Pakistan (GenSet)	Nisar Ahmed	0322-2397861
4.	BIDS (UPS)	Ali Ahmed	0324-2058479
5.	NETLINE (PK) (UPS)	IRFAN ALI	0300-2716827
6.	Greaves Pakistan (UPS)	Cabir / Ali	0300-2716827
7.			
8.			
9.			
10.			
11.			

**PROF. DR. TAREQ N. A. P.S.**  
Head Development  
CyberKnife Research, Jinnah Postgraduate

**ABDUL MAJID SHABBIR**  
Senior Engineer (Electrical)  
NESPAK (A&P DIV), Karachi

**MUHAMMAD WASIFULLAH**  
Assistant Accounts Officer  
Office of the Accountant General  
Sindh Karachi

**(Abdul Rashid Shaikh)**  
Executive Engineer  
Electrical / Energy  
Karachi

GOVERNMENT OF SINDH  
JINNAH POSTGRADUATE MEDICAL CENTRE  
KARACHI-75510

LIST OF FIRMS WHO DROP THE TENDER IN THE BOX

Dated the 18<sup>th</sup> May, 2017

Tender No. F.1-349/2016-17-(P&D)/JPMC

(1)  
Tender for Supply and Installation of 1500 kVA Generating Sets (Two Units) for Surgical Complex at Jinnah Postgraduate Medical Centre Karachi.

S.No.	NAME OF FIRM	NAME & SIGNATURE	MOBILE NO.
1.	ALLIED ENG & SERVICES (PVT) LTD	SABREEN A. KHATRI	0342-2324304
2.	Greaves Pakistan	Nisar Ahmad	0333-2377861
3.	R A Eng & Services	Faraz	0334-5316920
4.			
5.			
6.			

Dr. YAHYA TUNIO  
Deputy Director  
Jinnah Postgraduate Medical Centre  
Karachi

PROF. DR. TARIQ MAHMOOD  
MBBS, DMRD, FCPS  
Head Department of Radiology,  
CyberKnife Robotic Radiosurgery Oncology  
Jinnah Postgraduate Medical Centre Karachi

MR. MAJID SHABBIR  
Senior Engineer (Electrical)  
NESPAK (A&P DIV), Karachi

(Abdul Rasheed Shaikh)  
Executive Engineer  
Electrical & Energy  
Karachi

MUHAMMAD WASIULLAH  
Assistant Accounts Officer  
Office of the Accountant General  
Sindh Karachi

GOVERNMENT OF SINDH  
JINNAH POSTGRADUATE MEDICAL CENTRE  
KARACHI-75510

LIST OF FIRMS WHO DROP THE TENDER IN THE BOX

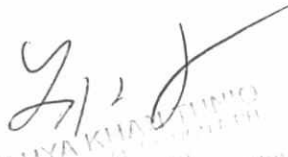
Dated the 18<sup>th</sup> May, 2017

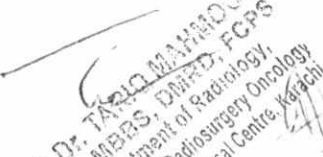
Tender No. F.1-349/2016-17-(P&D)/JPMC


(2)

Tender for Supply and Installation of 1500 kVA Transformers (Two Units) for Surgical Complex at Jinnah Postgraduate Medical Centre Karachi.


S.No.	NAME OF FIRM	NAME & SIGNATURE	MOBILE NO.
1.			
2.			
3.			
4.			
5.			

  
Dr. YAHYA KHAN  
Director  
Jinnah Postgraduate Medical Centre  
Karachi

  
PROF. DR. TAHIR MAHMOOD  
MBBS, DMED, FCPS  
Head Department of Radiology,  
CyberKnife, Robotic Radiosurgery Oncology  
Jinnah Postgraduate Medical Centre, Karachi

  
ABDUL MAJID SHABBIR  
Senior Engineer (Electrical)  
NESPAK (A&P DIV), Karachi

  
Abdul Raheed Shaikh  
Executive Engineer  
Electrical / Energy-I  
Karachi

  
MUHAMMAD WASIULLAH  
Assistant Accounts Officer  
office of the Accountant General  
Sindh Karachi

GOVERNMENT OF SINDH  
 JINNAH POSTGRADUATE MEDICAL CENTRE  
 KARACHI-75510

LIST OF FIRMS WHO DROP THE TENDER IN THE BOX

Tender No. F.1-349/2016-17-(P&D)/JPMC

Dated the 18<sup>th</sup> May, 2017


(3)


Tender for Supply and Installation of 625 kVA UPS for Surgical Complex at Jinnah Postgraduate Medical Centre Karachi.

S.No.	NAME OF FIRM	NAME & SIGNATURE	MOBILE NO.
1.	M/S BIOS		
2.	<del>Company Name</del>	Abdul Wahed Akbar	03122914587
3.	M/S NET-LINE	<del>Company Name</del>	0300-2716829
4.			
5.			

PROF. Dr. TARIQ MAHMOOD  
 MBBS, DMRD, FCPS  
 Head Department of Radiology,  
 Cyberknife Robotic Radiosurgery Oncology  
 Jinnah Postgraduate Medical Centre, Karachi

ABDUL MAJID SHABBIR  
 Senior Engineer (Electrical)  
 NESPAK (A&P DIV), Karachi

  
 Abdul Majid Shabbir  
 Executive Engineer  
 Electrical / Energy  
 Karachi

  
 DR. YASSER  
 Jinnah Postgraduate Medical Centre  
 Karachi

  
 MUHAMMAD WASIULLAH  
 Joint Accounts Officer  
 Joint Accountant General  
 Sindh, Karachi