BID EVALUATION REPORT

TENDER FOR SUPPLY & INSTALLATION OF 1000 KVA GENERATING SETS (TWO UNITS) FOR JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI

1.	Name of Procuring Agency:	Jinnah Postgraduate Medical Centre, Karachi.	
2.	Tender Reference No.	Tender No.F.1-1/2016-17-(M&R-SNE)/JPMC	
3.	Tender description / Name of work / item.	f work / Supply & Installation of 1000 KVA Generating Sets (Two Units) for Jinnah Postgraduate Medical Centre, Karachi.	
4.	Method of Procurement:	Single Stage – Two Envelope Procedure.	
5.	Tender Published:	The Daily English "The Frontier Post" Dated 28-10-2016, The Daily Urdu "Daily Ummat" Dated 28-10-2016, The Daily Sindhi "Awami Awaz" Dated 28-10-2016, vide NIT Advertisement No. INF/KRY-4055/2016 As well as same NIT was also hoisted on SPPRA official website with the SPPRA S.No. 30306.	
6.	Total Bid documents Sold:	(10)	
7.	Total Bids Received:	(04)	
8.	Technical Bid Opening date:	28-11-2016	
9.	No. of Bid technically qualified:	(01)	
10.	Bid (s) Rejected:	Nil	
11.	Financial Bid Opening date	06-03-2017	
12.	Bid Evaluation Report:	Details Attached as Annexure-I	

(Mr. Abdul Rosherd Shaikh)

Member & Executive Engineer (Energy-I)

Representative of Works & Services Department (E/M Division)

(Mr. Manzou Al Sial) Member & Assistant Commissioner (South), Karachi Representative of Deputy Commissioner (South), Karachi

e of Deputy Commissioner & SPECIAL MAGISTRATE SADDAR CARACHI SOUTH

(Dr. Behram Khan Khoso)

Member & Assistant Professor of Dermatology Jinnah Postgraduate Medical Centre, Karachi

(Dr. Abdal Jabbar Memon) Member & Deputy Director (Dev)

Representative of Health Department, Govt. of Sindh, Karachi

(Prof. Parid Mathing of Mathing o

BID EVALUATION REPORT

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.	Greaves Pakistan (Pvt.) Ltd.				Does not meet the required specification hence not qualified technically.	They offered 5 years warranty (3000 hours only) whereas, Greaves Pakistan is not manufacturer.
2.	M/s Allied Engineering & Services (Pvt.) Ltd.	PKR Rs.49,016,699	1 st lowest	Within Estimated cost	Meets the required technical specification and provided 5 years manufacturer warranty (Caterpillar) including all, as per bidding documents.	Accepted
3.	S.M.JAFFER & CO.				Does not meet the required specification hence not qualified technically.	They offered 5 years warranty shall be provided against any manufacturing defective parts whereas warranty is required from manufacturer including all.
4.	Energy Solutions (Pvt.) Ltd.		e Kalikini e r		Does not meet the required specification hence not qualified technically.	They offered 5 years warranty and for consumable (5000 running hours only) by ESL/ Aqsa Turkey, whereas warranty is required from manufacturer including all.

(Mr. Abdul Rasheed Shaike) Member & Executive Engineer (Intergy-I) Representative of Works & Services Department (E/M Division)

(Dr. Behram Khan Khoso) Member & Assistant Professor of Dermatology Jinnah Postgraduate Medical Centre, Karachi

USSIONER & (Mr. Mandool Ali Sial) SADDAR (Dr. Abdel) bbar Memon (South), Karach Member & Deputy Director (Dev)

Representative of Health Department, Govt. of Sindh, Karachi

(Prof. Tariq Mahmadako Okologiachi

Chairman & Head of Radiology Case Kanisas Centre, Karachi

Head of Radiology Case Kanisas Centre, Karachi

Ganting Control of Centre, Karachi

Ganting Control of Centre, Karachi

Ganting Control of Centre, Karachi Member & Assistant Commissioner (South), Karachi Representative of Deputy Commissioner (South), Karachi

COMMERCIAL COMPARATIVE STATEMENT

TENDER FOR SUPPLY & INSTALLATION OF 1000 KVA GENERATING SETS (TWO UNITS) FOR JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI.

-	Supply & Installation of 1000 KVA Generating Sets (Two Units) for Jinnah Postgra	
	ommercial C.S. Tender No.F.1-1/2016-17-(M&R-SNE)/JPMC	Financial Bid opened on 06-03-2017
S. No.	Name of Firm	Allied Engineering & Services (Pvt.) Ltd
	Make	USA
	Model	CAT C-32, 1000 KVA/800 eKW
	Sole Agent / Authorized Dealer of Manufacturer	Yes (Caterpillar)
la.	Unit Price CFR US\$	US\$ 138,170/-
haikhi		Equivalent to Pak Rupees Rs. 14,452,582/-
Haller Breef	Two Units Price CFR US\$	US\$ 276,340/- Equivalent to Pak Rupees Rs.28,905,164/-
City	Schedule Work (Site A + Site B)	20,111,535/-
	Two Units Price + Schedule Work (Site A + Site B)	49,016,699/-
1.	1000 KVA Genset Product Specifications/Requirement/Parameters	
1.1	General Genset Requirements	
	The generator set shall be Prime Duty rated at 800 ekW, 1,000 kVA Prime rating / 880 ekW, 1,102 kVA Standby rating, 1500 RPM, 0.8 power factors, 400 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 122.0F (50C) and altitude of 328 feet (100.0 m).	
	Prime Power Rating:	
W. Jane	* Average Power Output = 70% of prime power rating	
Tracion!	Load = Varying	
Sachi.		
	 Typical Hours/Year = Unlimited 	
	 Typical Peak Demand = 100% of prime rated as W with 10% overload capability for emergency use for a maximum of one (1) hour in 12. Overload operation cannot exceed 25 hours per year. 	
	Typical Application = Industrial, Purpoling Construction, Rental or Co-Ceneration	
1.2	Material and Parts	MISSIONER &
	SPECIAL MAGIST	RATE SADDAR

DISTRICT KARACHI SQUTH

	All materials and parts comprising the unit shall be new and unused.
1.3	Engine
	The engine shall be diesel fueled, four (4) cycles, water-cooled, while operating with
	nominal speed not exceeding 1500 RPM.
1.4	Engine Governing
	 The engine governor shall be electronic module with 24-volt DC Electric Actuator.
	The module shall be enclosed in an environmentally sealed, die-cast aluminum
	housing which isolates and protects electronic components from moisture and dirt contamination.
	 Speed droop shall be adjustable from 0 (isochronous) to 10%, from no load to full rated load.
chaikh	 Steady state frequency regulation shall be +/- 6 RPM. Speed shall be sensed by a magnetic pickup off the engine flywheel ring gear.
Thee	A provision for remote speed adjustment shall be included.
Shaikh Engheer Energy	The ECM shall adjust fuel delivery according to exhaust smoke, altitude and cold mode limits.
28CT	In the event of a DC power loss, the forward acting actuator will move to the
	minimum fuel position.
	The Module should be owned by engine manufacturer and be company fitted.
2.	Generator
2.1	Digital Voltage Regulator
10.00	The digital voltage regulator shall be microprocessor based with fully
Total wa	programmable operating and protection characteristics.
Caut Caut	The regulator shall maintain generator output voltage within +/- 0.25% for any
-	constant load between no load and full load.
	The regulator shall be capable of sensing true RMS in three phases of alternator
	output voltage, or operating in single phase sensing mode.
	 The voltage regulator shall include a VAR/Pf control feature as standard.
	The regulator shall provide an adjustable dual slope regulation characteristic in
	order to optimize voltage and frequency response for site conditions.
	The voltage regulator shall include standard the capability to provide generator
	paralleling with reactive droop compensation and reactive differential
	compensation.
	The voltage regulator shall communicate with the Carrierator Control Panel via a
	controller keypad.
	In Jacob Communication network with generator voltage adjustments made/via the controller keypad. Additionally, the controller shall allow system parameter setup and montoring MISSIONER & Additionally, the controller shall allow system parameter setup and montoring MISSIONER & ASSISTANT AGISTRACHI SQUITH SPECIAL MARACHI SPE
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Dr. About Jabbar Peputy Director (Dav-I) Health Department

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		and provide fault alarm and shutdown information through the controller. A PC-based user interface shall be available to allow viewing and modifying operating parameters in a windows compatible environment.
:	2.2	Motor Starting
		 Provide locked rotor motor starting capability of 2,291.8 skVA at 30% instantaneous voltage dip as defined per NEMA MG 1. Sustained voltage dip data is not acceptable.
	2.3	Alternator Data
		 The alternator provided will be 1000KVA prime duty with Internal Excitation. The insulation provided will be Class H, The alternator pitch must be 0.6667. The Efficiency of generator shall be approximately nearer to 95%.
-	2.4	Controls - Generator Set Mounted
. /	di	Provide a fully solid-state, microprocessor based, generator set control. The control panel
(M) .i.	Shaikh	shall be designed and built by the Genset manufacturer. The control shall provide all
mee nee	- OTHER	
Abdul Rasive F	Energy	provide real time digital communications to all engine and regulator controls. • Environmental
Abduecuical	RECOM	The generator set control shall be tested and certified to the following
Elech We		environmental conditions:
~		140°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
	121.00	4. 5% salt spray, 48 hours, +38°C, 36.8V system voltage
2 M AM	ASSESSED OF THE	5. Sinusoidal vibration 4.3G's RMS, 24-1000Hz
Y'	Court Court	6. Electromagnetic Capability (89/336/EEC, 91/368/EEC, 93/44/EEC,
- Karaci		93/68/EEC, BS EN 50081-2, 50082-2)
712		7. Shock: withstand 15G
		 Functional Requirements
Λ		The following functionality shall be integral to the control panel.
QA)		The control shall include a readable pixel, positive image, transflective LCD
Dr. About Jable	or.	display with text based alarm/event descriptions.
Deputy Director (Days Vicent Department	H.	 The control shall include a minimum of 3-line data display. Audible horn for alarm and shutdown with horn sitence switch
Avenue a spartwent		Standard ISO labeling.
		4. Multiple language capability.
		5. Remote start/stop control.
		6. Local run/off/auto control integral to system misroprocessor
		6. Local run/off/auto control integral to system microprocessor 7. Cool down timer
3		 4. Multiple language capability. 5. Remote start/stop control. 6. Local run/off/auto control integral to system microprocessor 7. Cool down timer
		Postul Parier SPECIERO
		Cilium. Dia

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	2.5	8. Speed adjust 9. Lamp test 10. Emergency stop push button 11. Voltage adjust 12. Voltage regulator V/Hz slope - adjustable 14. Password protected system programming Digital Monitoring Capability		
		The controls shall provide the following digital readouts for the engine and generator. All		
		readings shall be indicated in either metric or English units.		
		 Engine 		
		1. Engine oil pressure		
	la.	2. Engine oil temperature		
/	Shaikh	3. Engine coolant temperature		
/ need	- Onec	4. Engine RPM		
Rasher	Shalkh neneer Energy	5. Battery volts6. Engine hours		
CUTTON	400	7. Engine crank attempt counter		
CULT		8. Engine successful start counter		
		9. Service maintenance interval		
		10. Real time clock		
		 Generator 		
		 Generator AC volts (Line to Line, Line to Neutral and Average) 		
d	CHA	Generator AC Erroquency Generator AC Erroquency		
2	20	 Generator AC Frequency Generator kW (Total and Per Phase) 		
	Vagian.	5. Generator kVA (Total and Per Phase)		
1-24		6. Generator kVAR (Total and Per Phase)		
		7. Power Factor (Avg and Per Phase)		
1		8. Total kW-hr		
T		9. Total kVAR-hr		
Satura es		10. % kW		
ini Jabba	7	11. % kVA		
Hillar Lingson		12. % kVAR		
	2.6	Alarms and Shutdowns	(A)	
		Alarms and Shutdown • Engine Alarm/Shutdown 1. Low oil pressure alarm/shutdown 2. High coolant temperature alarm/shutdown	a JUSSIONER AR	
		1. Low oil pressure alarm/shutdown	OMMATESAUTH	
		2. High coolant temperature alarm/shutdown	SSISTING GISTINGHI SUU	
		Engine Alarm/Shutdown Low oil pressure alarm/shutdown High coolant temperature alarm/shutdown High coolant temperature alarm/shutdown Head of the first and the first all the first	SPECIALICTION	
		* Engine Alarm/Shutdown 1. Low oil pressure alarm/shutdown 2. High coolant temperature alarm/shutdown * Engine Alarm/Shutdown Cylerton and Shutdown Cylerton and Shutdown * Engine Alarm/Shutdown * Cylerton and Shutdown * Engine Alarm/Shutdown * Engine Alarm/Shutd	ASSISTATION ER & OMMISSIONER & OMMISSIONER & OMMISSIONER & SADDAR SPECIAL COMMISSIONER & SPECIAL	
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Dr. Abdul Jabl Caputy Orector (Des Heilm Department

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	3. Loss of coolant shutdown
	4. Over speed shutdown
	5. Over crank shutdown
	6. Emergency stop shutdown
	7. Low coolant temperature alarm
	8. Low battery voltage alarm
	9. High battery voltage alarm
	10. Control switch not in auto position alarm
	11. Battery charger failure alarm
_ /	# Generator Alarm/Shutdown
Shi	1. Generator phase sequence
Rasheed Sh	2. Generator over voltage
Rative En	3. Generator under voltage
Abdul Rashee Engli	4. Generator over frequency
Electr Me	5. Generator under frequency
	or sentence to read power (real and readers)
	7. Generator overcurrent
	■ Voltage Regulator Alarm/Shutdown
of and	Loss of excitation alarm/shutdown
VCR	2. Instantaneous over excitation alarm/shutdown
D	3. Time over excitation alarm/shutdown
Kma	4. Loss of sensing
7//	5. Loss of PMG
2.	
	and the second s
	The Controller shall include the ability to accept programmable digital input
A	signals. The signals may be programmed for either high or low activation using
- VI	programmable Normally Open or Normally Closed contacts.
CHARACTER IN	■ Programmable Relay Outputs
	The control shall include the ability to operate programmable relay output signals,
	integral to the controller. The output relays shall be rated for 2A @ 30VDC and
	consist of six (6) Form A (Normally Open) contacts and two (2) Form C (Normally
	integral to the controller. The output relays shall be rated for 2A @ 30VDC and consist of six (6) Form A (Normally Open) contacts and two (2) Form C (Normally Open & Normally Closed) contacts. Programmable Discrete Outputs The control shall include the ability to operate two (2) discrete outputs, integral to the controller, which are capable of sinking up to 300mA. **Read Department of the controller
	Programmable Discrete Outputs
	The control shall include the ability to operate two (2) discrete outputs, integral to
	consist of six (6) Form A (Normally Open) contacts and two (2) Form C (Normally Open & Normally Closed) contacts. Programmable Discrete Outputs The control shall include the ability to operate two (2) discrete outputs, integral to the controller, which are capable of sinking up to 300mA. ASSISTANT SOUTH The control operate two (2) discrete outputs, integral to the controller, which are capable of sinking up to 300mA. The control operate two (2) discrete outputs, integral to the controller, which are capable of sinking up to 300mA. The control operate two (3) discrete outputs, integral to the controller, which are capable of sinking up to 300mA. The control operate two (3) discrete outputs, integral to the controller, which are capable of sinking up to 300mA.
	Open & Normally Closed) contacts. Programmable Discrete Outputs The control shall include the ability to operate two (2) discrete outputs, integral to the controller, which are capable of sinking up to 300mA. ASSISTANT SOUTH ASSISTANT SOUTH Imput position of the product
	The control shall include the ability to operate two (2) discrete outputs, integral to the controller, which are capable of sinking up to 300mA. ASSISTANT SOUTH SPECIAL MARKACHI SOUTH DISTRICT MARKACHI SOUTH ORDINATE RADIANTE RADIANT
	Diana

, [2.8	Maintenance	
	dy.	All engine, voltage regulator, control panel and accessory units shall be accessible through a single electronic service tool. The following maintenance functionality shall be integral to the generator set control 1. Engine running hours display 2. Service maintenance interval (running hours or calendar days) 3. Engine crank attempt counter 4. Engine successful starts counter 5. 40 events are stored in control panel memory 6. Programmable cycle timer that starts and runs the generator for a predetermined	
	Shall Energy Energy	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: a) Day of week b) Time of day to start	
Elect R		c) Duration of cycle	
Ý	2.9	Remote Communications ■ The control shall include Modbus RTU communications as standard via RS-485 half duplex with configurable baud rates from 2.4k to 57.6k.	
	3.	Cooling System	
and and	CHAN Control	 The generator set shall be equipped with a rail-mounted, engine-driven radiator with blower fan and all accessories. The cooling system shall be sized to operate at full load conditions and 110 F*(50C) ambient air entering the room or enclosure (If an enclosure is specified). The generator set supplier is responsible for providing a properly sized cooling system based on the enclosure static pressure restriction. 	
	3.1	Fuel System	
A		 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. All fuel piping shall be black iron or flexible fuel hose rated for this service. No galvanized piping will be permitted. Flexible fuel lines shall be minimally rated for 300 degrees F and 100 psi. 	· Hulogo
	3.2	Exhaust System	10 MRC INIT OF
		Silencer A industrial grade silencer, companion flanges, and flexible stainless steel exhaust fitting properly sized shall be furnished and installed according to the	SIONE DE LA CONTRACTION PROPERTY OF THE PROPER
		ASSISTAN CONTRACTION OF DISTRICT CARACH	SIONE BERNING MARINE CO. SIONE BERNING REPORT OF THE SHAPE OF THE STATE OF THE STATE OF THE SHAPE OF THE SHAPE OF THE STATE OF THE SHAPE OF THE SHA

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		 manufacturer's recommendation. Mounting shall be provided by the contractor as shown on the drawings. 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. Exhaust pipe size shall be sufficient to ensure that exhaust back-pressure does not exceed the maximum limitations specified by the engine manufacturer. 	
	3.3	Starting System	
Abdill Rasheed Recutive E	Shaikhi Shaikhi Energy Energy	 Starting Motor A DC electric starting system with positive engagement shall be furnished. The motor voltage shall be as recommended by the engine manufacturer. Jacket Water Heater Jacket water heater shall be provided and shall be sized to insure that Genset will start within the specified time period and ambient conditions. Batteries 	
Elo		Batteries - A lead-acid storage battery set of the heavy-duty diesel starting type	
		shall be provided. Battery voltage shall be compatible with the starting system.	
		 Battery Charger 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	
27		be mounted on the Genset package or inside the Genset enclosure/room.	
M	4,0	General	
V	4.1	References and Standards	
Junior State of Lands		The generator set covered by these specifications shall be designed, tested, rated, assembled and installed in strict accordance with all applicable standards below: CSA C22.2 No14 CSA 282 CSA 100 EN61000-6 EN55011 FCC Part 15 Subpart B ISO8528 IEC61000 UL508 UL2200 UL142 Designed to allow for installed compliance to NFPA 70, NFPA99 and the part of the	Color March Commissioner &
	4.2	Work Included Cybern Posto	SPECIAL MAGISTRATE SADDAR
		Mr.	DISTRICT KARACHI SOUTH

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	 Fuel System The CONTRACTOR shall provide a full tank of diesel fuel for the completion of all testing. System Test
	A complete system load test shall be performed after all equipment is installed. Guidelines in the Start-up Section.
	 Requirements, Codes and Regulations The equipment supplied and installed shall meet the requirements of above
chaikh	standards. All equipment shall be of new and current production by a MANUFACTURER who has 25 years of experience building this type of
ashee Singer	equipment. Manufacturer shall be ISO9001 certified. Submittals
Executive First	 Engine-generator submittals shall include the following information: Factory published specification sheet.
Elle	Manufacturer's catalog cut sheets of all auxiliary components such as battery charger, control panel, enclosure, etc.
	3. Dimensional elevation and layout drawings of the generator set and related accessories. 4. Weights of all agricultures.
	 Weights of all equipment. Interconnect wiring diagram of complete emergency system, including generator battery charger, control panel.
	6. Engine mechanical data, including heat rejection, exhaust gas flows, combustion air and ventilation air flows, fuel consumption, etc.
M COLON	7. Generator electrical data including temperature and insulation data, cooling requirements, excitation ratings, voltage regulation, voltage regulator,
ANTI E SANTA CO	efficiencies. 8. Generator resistances, reactance's and time constants. 9. Generator Locked Rotor Motor starting curves.
1	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.
	11. Manufacturers and dealers written warranty.
4.4	System Responsibility Generator Set Distributor Generator Set Distributor
	11. Manufacturers and dealers written warranty. System Responsibility Generator Set Distributor The completed engine generator set shall be manufactured in USA/Europe/ Japane to Berthing and supplied by the Manufacturer's Sole Agency/Authorized Dealer only. Warranty Prime (ISO 8528-1: PRP) Rated Generator Set Warranty SPECIAL WALISTRATE SADDAR
4.5	Warranty
2.0	Prime (ISO 8528-1: PRP) Rated Generator Set Warranty
	Prime (ISO 8528-1: PRP) Rated Generator Set Warranty SPECIAL MADISTRATE SADDAR DISTRICT KARACHI SQUTH

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	 The manufacturer's standard warranty shall 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 parts, labor, and reasonable travel expense necessary for repairs at the job site. Running hours shall not be a limiting factor for the system warranty by either the manufacturer or servicing distributor. Submittals received without written warranties as specified will be rejected in their entirety. 	
4	.6 Parts and Service Qualifications	
Rasheed S	Service Facility The engine-generator supplier shall maintain 24-hour parts and service capability within 100 miles of the project site. The distributor 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	
Elect	 within 24hrs and 95% within 48 hours. Service Personnel The dealer shall maintain qualified factory trained service personnel. 	
	5 Execution	
Abdul Jabber	 Start-Up and Testing 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: 1. Perform a 4 hour load bank test at 1.0 PF at full name plate rating. Load Bank, Cables and other equipment required for this test to be supplied to the customer. Operation and Maintenance Manuals 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. Training On-Site Training 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. Other terms and conditions 	OF OF A PART OF READ OF THE PROPERTY OF THE PR
	Other terms and conditions Site planning	CRO. Derender No. ASSISTANT COMMISSIONE
	 The bidder shall visit the site before submission of tender and ensure that cost of all necessary civil/electrical boards/cables/earthling needed to install and 	Head De tologo SPECIAL MAGISTRATE SADI Citethile Politician SPECIAL MAGISTRATE SADI DISTRICT KARACHI SOUT

commissioning the complete system is included in the tender cost for the two units 1000 KVA Diesel Generating Sets. Necessary civil/electrical boards/cables/earthling etc. needed to install and commissioning the complete system as per standard shall be responsibility of successful firm/vender. The successful firm/bidder shall provide Genset for backup at onsite till new unit 1000 KVA Genset installation, testing & commissioning. Their rent expenses will be included in tender cost. Quality Safety Standards: The bidder should have own in-house facility of minor and major overhauling works simultaneously for fuel pump injector calibration. Country of manufacture and origin should be USA/Europe/Japan and equipment approval of their respective quality standards is mandatory.

> (Mr. Abdul Rasheed Shaikh) Member & Executive Engineer (Energy-I)

Representative of Works & Services Department (E/M Division)

(Mr. Manzon Ali Sial)

Member & Assistant Commissioner (South), Karachi Representative of Deputy Commissioner (South), Karachi

SPECIAL MAGISTRATE SADDAR DISTRIPAT ICARACHI SQUTH

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

(Dr. Behram Khan Khoso)

Member & Assistant Professor of Dermatology Jinnah Postgraduate Medical Centre, Karachi

(Prof. Tarig Mahanood)

Chairman & Head of Radiology, Cyberkmife & Oncology Department Jinnah Postgraduate Medical Centre, Karachi

Dated 06-03-2017

SUBJECT:-

MINUTES OF THE MEETING REGARDING THE OPENING OF FINANCIAL BIDS FOR THE TENDER FOR "SUPPLY & INSTALLATION OF 1000 KVA GENERATING SETS (TWO UNITS) FOR JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI" (C.M. DIRECTIVE) THROUGH SNE FOR THE YEAR 2016-17.

A meeting of Procurement Committee was held on 06-03-2017 at 11:00 AM under the chairmanship of Chairman Procurement Committee at Committee Room, Administration Block, in order to undertake the Financial Appraisal of "M/s Allied Engineering & Services (Pvt.) Ltd." 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:

 Prof. Tariq Mahmood, Head of Radiology, Cyberknife & Oncology Dept., JPMC, Karachi. (Chairman)

 Dr. Behram Khan Khoso, Assistant Professor of Dermatology, JPMC, Karachi. (Member)

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

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

 Mr. Manzool Sial Assistant Commissioner (South) Karachi (Member)

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

- Greaves Pakistan (Pvt.) Ltd
- Allied Engineering & Services (Pvt.) Ltd.
- S.M. Jaffer & CO.
- Energy Solutions (Pvt.) Ltd.

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.

The Bid was opened in presence of the firm's participants and the rates quoted by the Bidder 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.

Abdul Rasheed Shaikhi

(Abdul Rasheed Engineer

Executive Energy)

Dr. Abdai Judiar Deputy Director (Dev-II Health Department PROF. DE TARIC MAHINE CPS

Head Delas the Radio Surgery Orthogy

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The comparative statement of the Bid announced in the meeting attached as "Commercial C.S.", whereas the Earnest Money in shape of pay orders equivalent to the 2.5% of the total Bid value submitted by "M/s Allied Engineering & Services (Pvt.) Ltd." is as under:

- . M/s. "M/s Allied Engineering & Services (Pvt.) Ltd." submitted Earnest Money pay orders
- amounting to Rs. 1,450,000/- vide Cheque No: 01993418 dated 28-11-2016 of Soneri Bank.

Meeting ended with the vote of thanks to the chair.

(Mr. Abdul Rasheed Shauen)

Member & Executive Engineer (Energy-I) Representative of Works & Services Department (E/M Division) tzool Ali Sial)

Member & Assistant Commissioner (South), Karachi Representative of Deputy Commissioner (South), Karachi

SPECIAL MAGISTRATE DISTRICT KARACHI SOUTH

(Dr. Behram Khan Khoso) Member & Assistant Professor of Dermatology Jinnah Postgraduate Medical Centre, Karachi

Dr. Abdul Jabbar (Dr. Abdul Jabbar Memon)

Member & Deputy Director (Dev) Representative of Health Department, Govt. of Sindh, Karachi

(Prof. Tarte Mahmood)

Chairman & Head of Radiology, Cyberkstife & Oncology Department Jinnah Postgraduate Brodical Centre, Karachi

PROCUREMENT COMMITTEE ATTENDANCE SHEET

Dated the 06th March, 2017

SUBJECT:-

OPENING OF FIANCIAL PROPOSALS REGARDING THE TENDER FOR "SUPPLY & INSTALLATION OF 1000 KVA GENERATING SETS (TWO UNITS) FOR JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI" (C.M. DIRECTIVE) THROUGH SNE FOR THE YEAR 2016-17.

		CP CP
S.No.	NAME & DESIGNATION	SIGNATURE NEW CONTROL
	Prof. Tariq Mahmood,	ON SHIP SHOWOF
1.	Head of Radiology, Cyberknife & Oncology Dept.,	TABS HOT LINGE WIT
	JPMC, Karachi.	Qr Wishthe Radions
	(Chairman)	CEOF A Dedoubling to Me
	Dr. Behram Khan Khoso	SIGNATORE STORY OF THE STORY OF
2.	Assistant Professor of Dermatology,	9 Spenistro
	JPMC, Karachi	- Millians
	(Member)	This was a way of the same
	Dr. Abdul Jabbar Memon	A
3.	Deputy Director (Dev),	
	Representative from Health Department, Govt. of Sindh.	CT
	Karachi.	or min best abband
	(Member)	Heat a separtment
	Mr. Abdul Rasheed Shaikh	Rasheed Shakh Rasheed Shakh Executive Engineer Executive Energy
4.	Executive Engineer (Energy-I)	Rash Engling
	Representative of Works & Services Department (E/M	Executive Energy
	Division	KINCLE MATRICEL
	(Member)	
P	Mr. Manzool Sial	/-
5.	Assistant Commissioner (South), Karachi	/ W
	Representative of Deputy Commissioner (South), Karachi	
	(Member)	9

ASSISTANT COMMISSIONER &
SPECIAL MAGISTRATE SADDAR
DISTRICT KARACHI SOUTH

BIDDERS ATTENDANCE SHEET

Dated the 06th March, 2017

SUBJECT:-

OPENING OF FIANCIAL PROPOSALS REGARDING THE TENDER FOR "SUPPLY & INSTALLATION OF 1000 KVA GENERATING SETS (TWO UNITS) FOR JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI" (C.M. DIRECTIVE) THROUGH SNE FOR THE YEAR 2016-17.

NAME OF FIRM(S)	FOCAL PERSON NAME	CONTACT NO.	SIGNATURE
Greaves Pakistan (Pvt.) Ltd.	Ahmed Raga	03342224092	of eventually control
Allied Engineering & Services (Pvt.) Ltd.	TASKEEN A. KHATRI	0342-232934	Taras II
S.M.JAFFER & CO.	SYED HASSAN	0335-1200399	Recived Commerced Open Open
Energy Solutions (Pvt.) Ltd.	ADNAN MADBOOL	0301-8254754	Alman Received
	Greaves Pakistan (Pvt.) Ltd. Allied Engineering & Services (Pvt.) Ltd. S.M.JAFFER & CO.	Greaves Pakistan (Pvt.) Ltd. Allied Engineering & Services (Pvt.) Ltd. S.M.JAFFER & CO. SYED HASSAN	Greaves Pakistan (Pvt.) Ltd. Allied Engineering & Services (Pvt.) Ltd. Allied Engineering & Services (Pvt.) Ltd. S.M.JAFFER & CO. SYED HASSAN 0335-1200399

(Mr. Abdul Rashged Shakko)

Member & Executive fine incer (Energy-I)

Representative of Works & Services Department (E/M Division)

(Mr. Manzoor Sial) SIONER Member & Assistant Compassioner (South), Karachi Representative of Deputy Commissioner (South), Karachi

(Dr. Behram Khan Khoso) Member & Assistant Professor of Dermatology Jinnah Postgraduate Medical Centre, Karachi

(Dr. Abdul Jabbar Memon) Member & Deputy Director (Dev)

Representative of Health Department, Govt. of Sindh, Karachi

(Prof. Tarigo Mahmood

Chairman & Head of Radiology Cyber nire & Oncology Department Jinnah Postgraduate Medical Centre, Karachi

TECHNICAL EVALUATION REPORT

(As per details provided by the participants / bidders)

TENDER FOR SUPPLY & INSTALLATION OF 1000 KVA GENERATING SETS (TWO UNITS) FOR JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI.

-	Toch	Supply & Installation of 1000 KVA Genera nical Comparative Statement of Tender No.F.1-1/2016			ostgraduate Med		rachi. Opened on 28-11-20
	S. No.	Specifications / Requirements/ Parameters	-17-(M&R-SNE)))	rwc			pened on 25-11-20
ed Stranger	less	1000 KVA Genset Product Specifications/Requirement/Parameters	Greaves Pakistan (Pvt.) Ltd.	Allied Engineering & Services (Pvt.) Ltd.	S.M.JAFFER & CO.	Energy Solutions (Pvt.) Ltd.	Remarks
65	1.1	General Genset Requirements					
M KAR	AN COMM	The generator set shall be Prime Duty rated at 800 ekW, 1,000.0 kVA, 1500 RPM, 0.8 power factors, 400 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 122.0F (50C) and altitude of 328 feet (100.0 m). Prime Power Rating: Average Power Output = 70% of prime power rating Load = Varying Typical Hours/Year = Unlimited	Complied Greaves Pakistan (Pvt.) Ltd. has offered 1250 KVA instead of 1000 KVA.	Complied Report has been submitted as an evidence for max ambient temp(50C)	Complied	Complied	All bidders have no mentioned the specified load at a may ambient temp (50C) excep M/s Allied Engineering & Services (Pvt. Ltd.
Japarunent Sctot (Jav	T.	 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. Typical Application = Industrial, Pumping, Construction, Rental or Co-Generation 	PROF. Dr. TARIO.	AAHMOOD MRO GOON ON Radiology Of Radiology Salosurgey Organics Salosurgey Organics	Assistant and As	District South Karachy Science	
	1.2	Material and Parts	lim.	6 1: 1		C 11 1	A 11
		All materials and parts comprising the unit shall be new and unused.	Complied	Complied	Complied	Complied	All parties comply

1.3	Engine					
	The engine shall be diesel fueled, four (4) cycles, water-cooled, while operating with nominal speed not exceeding 1500 RPM.	The fuel consumption is 236 Liter/Hour.	The fuel consumption is 206 Liter/Hour	The fuel Consumption is 215 Liter/Hour	The fuel , Consumption is 202 Liter/Hour	
1.4	Engine Governing					
ed Shaikhi Engheer Engherey Al Freight	 The engine governor shall be electronic module with 24-volt DC Electric Actuator. The module shall be enclosed in an 	Complied	Complied	Complied	Complied	All parties comply
RAM KHAM RAM CURI M. SCORE OF THE POTENTIAL COMMITTEE TO SERVE THE POTENTIAL COMMITTEE	 (isochronous) to 10%, from no load to full rated load. Steady state frequency regulation shall be +/- 6 RPM. Speed shall be sensed by a magnetic pickup off the engine flywheel ring gear. A provision for remote speed adjustment shall be included. The ECM shall adjust fuel delivery according to exhaust smoke, altitude and cold mode limits. In the event of a DC power loss, the forward acting actuator will move to the minimum fuel position. The Module should be owned by engine manufacturer and be company fitted. 	ROF. TA	AC IN A HISTOCO STORY OF THE BACK OF THE B		A WHO SO TO SERVICE OF THE PARTY OF THE PART	
2.	Generator	h. Hesole	Rotadua		C "Reg Party	
2.1	Digital Voltage Regulator	CAps. V. b.	Qp.		b2	
Sebarroed Septe (Sek-1)	 The digital voltage regulator shall be microprocessor based with fully programmable operating and protection characteristics. The regulator shall maintain generator output voltage within +/- 0.25% for any constant load between no load and full load. 	M/s Greates Pakistan have quoted AVR whereas our requirement is DVR	Complied	Complied	M/s Energy Solutions have provided AVR whereas our requirement is DVR	Engineering

Abdul Rasheed S. Abdul Recutive Firectric Kare

DR. BAHRAM M.
DR. BAHRAS Derries
MEGSesisant of orm
MEGSesisant of the many of the many poster of the many poster of the many of the many poster o

		 The regulator shall be capable of sensing true RMS in three phases of alternator output voltage, or operating in single phase sensing mode. The voltage regulator shall include a VAR/Pf control feature as standard. The regulator shall provide an adjustable 				• ,	Energy Solutions have quoted AVR instead of DVR
Abdul Rasheed Sh Abdul Rasheed Sh Executive F. E. Executive (E. E. E	neer hergy	dual slope regulation characteristic in order to optimize voltage and frequency response for site conditions. The voltage regulator shall include standard the capability to provide generator paralleling with reactive droop compensation and reactive differential compensation.					•
DR. BAHRAM DREG 705 M. FOOD MEG 705 M. FOOD M.	KHAM KHUKI Imalica Khadica Khadica	 The voltage regulator shall communicate with the Generator Control Panel via a J1939 communication network with generator voltage adjustments made via the controller keypad. Additionally, the controller shall allow system parameter setup and monitoring, and provide fault alarm and shutdown information through the controller. A PC-based user interface shall be available to allow viewing and modifying operating parameters in a windows compatible environment. 	14	OF DY NUR BEFORE RESIDENCE CO	English Control of the Control of th	No de la	
Dr. Abdil Jabbar	2.2	Motor Starting Provide locked rotor motor starting	Not mentioned in technical offer nor provided as required.	The skVA is 2297 at 30% Voltage dip with 0.4pF.	Not mentioned in technical offer later it is clarified that sKVA is 0.6 PF instead of 0.4PF.	sKVA quoted is 2260 sKVA @ PF 0.4	As per technical specification sKVA 0.4 PF is required. Which complied by M/s Allied and M/s ESL.

2.3	Alternator Data					
	 The alternator provided will be 1000KVA prime duty with Internal Excitation. The insulation provided will be Class H, The alternator pitch must be 0.6667. The Efficiency of generator shall be 	Complied Insulation class H with pitch 0.667	Insulation class H with pitch 0.667	Complied Insulation class H with pitch 0.667	Insulation class H with pitch 0.667	All parties comply
	approximately nearer to 95%.		1	THE STATE OF THE S		
5 24	Controls - Generator Set Mounted					•
O Checkled Advant	Provide a fully solid-state, microprocessor based, 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	Control panel is designed by (Leroy Somer) not Genset manufacturer (SDMO) and	Control panel is designed and manufactured by the engine manufacturer	Control panel is designed by (Leroy Somer) not by the Genset manufacturer	Control panel is designed by the (Stamford) not by the Genset Manufacturer	Only Caterpillar control panel is designed and manufactured inhouse rests all are outsourced.
DR BAHRAM KHAN DR BS DOS M SPORTS OF THE MENT OF THE POST OF THE	to all engine and regulator controls. Environmental The generator set control shall be tested and certified to the following environmental conditions: 140°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. 5% salt spray, 48 hours, +38°C, 36.8V system voltage 5. Sinusoidal vibration 4.3G's RMS, 24-1000Hz 6. Electromagnetic Capability (89/336/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC, BS EN 50081-2, 50082-2) 7. Shock: withstand 15G Functional Requirements The following functionality shall be integral to the control panel. 1. The control shall include a readable pixel, positive image, transflective LCD display with text based alarm/event descriptions.	nor engine manufacturer (MTU)	(Caterpillar, USA) TAGE THE RESIDENCE OF THE RESIDENCE O	(WG Wilson) and nor by the engine manufacturer (Perkins).	(Aqsa Power Generation, Turkey) and nor by the engine manufacturer (Cummins)	

.90		 The control shall include a minimum of 3-line data display. Audible horn for alarm and shutdown with horn silence switch 				ž 9-	• .
asheed S	haikh Bheer	Standard ISO labeling. 4. Multiple language capability. 5. Remote start/stop control. 6. Local run/off/auto control integral to					•
Applin Korthe		10. Emergency stop push button11. Voltage adjust					
		Voltage regulator V/Hz slope - adjustable Password protected system programming					
,	2.5	Digital Monitoring Capability The controls shall provide the following digital readouts for the engine and generator. All readings shall be indicated in either metric or English units.	Complied	Complied	Complied	Complied	All parties comply
DR BAHRAM DRES DOS M SEC MEBS DOS M SEC MEBS DOS M SEC DEPARTMENT OF MESON MANAGEMENT OF MESON MANAGEMENT OF MESON MANAGEMENT OF MESON MES	KHAN error (MA) error (MA) error (MA) error (MA)	I. Engine oil pressure 2. Engine oil temperature 3. Engine coolant temperature 4. Engine RPM 5. Battery volts 6. Engine hours 7. Engine crank attempt counter 8. Engine successful start counter 9. Service maintenance interval 10. Real time clock	OROF. S	TARIO UI AND COST	B soli	Control of the Contro	Constant Con
		 Generator Generator AC volts (Line to Line, Line to Neutral and Average) Generator AC current (Avg and Per Phase) 				R	

Rasheed Shi	ikh)	 Generator AC Frequency Generator kW (Total and Per Phase) Generator kVA (Total and Per Phase) Generator kVAR (Total and Per Phase) Power Factor (Avg and Per Phase) Total kW-hr Total kVAR-hr % kW % kVA % Kvar % Kvar 					
DR. BAHRAM KHAN DR. BAHRAM SC. Osmorina Maios Dos M. Professor Department of Department Jannet Poster Karach Jannet Poster Karach Jannet Department of	entre .	Engine Alarm/Shutdown 1. Low oil pressure alarm/shutdown 2. High coolant temperature alarm/shutdown 3. Loss of coolant shutdown 4. Over speed shutdown 5. Over crank shutdown 6. Emergency stop shutdown 7. Low coolant temperature alarm 8. Low battery voltage alarm 9. High battery voltage alarm 10. Control switch not in auto position alarm 11. Battery charger failure alarm 12. Generator Alarm/Shutdown 13. Generator over voltage 14. Generator over voltage 15. Generator under voltage 16. Generator under frequency 17. Generator overcurrent	Complied	Complied To A Port of Particular Control of the Particular Partic	Complied	Complied	All parties comply

Mur. Marin	 Loss of excitation alarm/shutdown Loss of excitation alarm/shutdown Instantaneous over excitation alarm/shutdown Time over excitation alarm/shutdown Loss of sensing Loss of PMG 					
S 2.7 Input	s and Outputs					
Ddul Rasheed French	Programmable Digital Inputs The Controller shall include the ability to accept programmable digital input signals. The signals may be programmed for either high or low activation using programmable	Complied	Complied	Complied	Complied	All parties comply
BAHRAM KHAN RES OS san Program to the second of the secon	Normally Open or Normally Closed contacts. Programmable Relay Outputs The control shall include the ability to operate programmable relay output signals, integral to the controller. The output relays shall be rated for 2A @ 30VDC and consist of six (6) Form A (Normally Open) contacts and two (2) Form C (Normally Open & Normally Closed) contacts. Programmable Discrete Outputs The control shall include the ability to operate two (2) discrete outputs, integral to the controller, which are capable of sinking up to 300mA.		PROF. Dr. M. B.	Hand Cook and the state of the	al.	CAMMON ASTON
2.8 Maint	tenance					100
All en access electro functi contro	ngine, voltage regulator, control panel and sory units shall be accessible through a single onic service tool. The following maintenance onality shall be integral to the generator set ol Engine running hours display	maintenance of various components.	all these components can be done and is	Separate tools are required for maintenance of various components.	Separate tools are required for maintenance of various components.	M/s Allied Engineering & Services (Pvt.) Ltd. has mentioned that electronic technician (ET
2.	Service maintenance interval (running	Needs to be	accessible	Needs to be		Kit) is available
	hours or calendar days)	clarified in the	through ET	clarified in the	Needs to be	Kit) is available

Abdul Rasheed St.	nakhi Breth	 Engine crank attempt counter Engine successful starts counter 40 events are stored in control panel memory 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: a) Day of week b) Time of day to start c) Duration of cycle 	contract agreement.	available with Allied	contract agreement.	clarified in the contract agreement.	for monitoring and maintenance of complete parameter of generator.
	2.9	Remote Communications The control shall include Modbus RTU communications as standard via RS-485 half duplex with configurable baud rates from 2.4k to 57.6k.	Not Available/ Not built-in	Available /built-in	Not Available/ Not built-in,	Not Available/ Not built-in	M/s Allied Engineering & Services (Pvt.) Ltd complied.
BAHRAM BAHRAM BASISTAN PO Junnan Power Kara	KHAN KHAN ern orn ern aron ern aron sern aron	 The generator set shall be equipped with a rail-mounted, engine-driven radiator with blower fan and all accessories. The cooling system shall be sized to operate at full load conditions and 110 F*(50C) ambient air entering the room or enclosure (If an enclosure is specified). The generator set supplier is responsible for providing a properly sized cooling system based on the enclosure static pressure restriction. 	Comply	Comply Project sizing report submitted.	Comply Comply Red De to the Band of	Comply Comply Condition of the control of the con	All bidders comply.
pr. A cui raibar	3.1	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. All fuel piping shall be black iron or flexible	Complied	Complied	Complied	Complied	All bidders comply

4	2.2	fuel hose rated for this service. No galvanized piping will be permitted. Flexible fuel lines shall be minimally rated for 300 degrees F and 100 psi.				2 ×	• .
_		Exhaust System					, ,
lat / ST	likhi Referi	 A industrial grade silencer, companion flanges, and flexible stainless steel exhaust fitting properly sized shall be furnished and installed according to the manufacturer's recommendation. Mounting shall be provided by the contractor as shown on the drawings. The silencer shall be mounted so that its 	Complied	Complied	Complied	Complied	All parties comply
9/9	K. B. B. M	weight is not supported by the engine nor will exhaust system growth due to thermal expansion be imposed on the engine. Exhaust pipe size shall be sufficient to ensure that exhaust back-pressure does not exceed the maximum limitations specified by the engine manufacturer. Starting System					
DREAS OS MA FORM	seor tooks	Starting Motor A DC electric starting system with positive engagement shall be furnished. The motor voltage shall be as recommended by the engine manufacturer. Jacket Water Heater Jacket water heater shall be provided and shall be sized to insure that Genset will start within the specified time period and ambient conditions. Batteries Batteries - A lead-acid storage battery set of the heavy-duty diesel starting type shall be provided. Battery voltage shall be compatible with the starting system. Battery Charger	Complied	Complied Complied Complete Com	Complied Research Control of the State of t	Complied	All parties comply

1						
	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.					
4.						
ed Shid e4	The generator set covered by these specifications shall be designed, tested, rated, assembled and installed in strict accordance with all applicable standards below:	Not mentioned in technical offer.	Mentioned in technical offer.	Mentioned in technical offer.	Not mentioned in technical offer.	M/s Greaves and M/s ESL not mentioned the standards.
AHRAM KH	 CSA C22.2 No14 CSA 282 CSA 100 EN61000-6 EN55011 FCC Part 15 Subpart B ISO8528 IEC61000 UL508 UL2200 UL142 Designed to allow for installed compliance to NFPA 70, NFPA99 and NFPA 110 		La TA	College of the colleg		
4.	2 Work Included		linn			
Zeliozi Heading	 Fuel System The CONTRACTOR shall provide a full tank of diesel fuel for the completion of all testing. System Test A complete system load test shall be performed after all equipment is installed. Guidelines in the Start-up Section. Requirements, Codes and Regulations The equipment supplied and installed shall meet the requirements of above standards. 	Complied	Complied	Comblied Listrict South Karachi, Sadar	Complied	All parties comply

May Pasheed

	All equipment shall be of new and current production by a MANUFACTURER who has 25 years of experience building this type of equipment. Manufacturer shall be ISO9001 certified.				ž s	
4.	3 Submittals					
Maria Residence de Constitución de Constitució	 Engine-generator submittals shall include the following information: Factory published specification sheet. Manufacturer's catalog cut sheets of all auxiliary components such as battery charger, control panel, enclosure, etc. 	For Point 9 & 10, no documents submitted. For point 11, Warranty is not provided	Documents Submitted. For point 11, Warranty is provided on judicial	Documents Submitted For point 11, Warranty is not provided on the judicial	Document submitted For point 11, Warranty is provided on judicial	*
R. BAHRAM KHA R. B. OS STORMAN R. S. OS STORMA	3. Dimensional elevation and layout drawings of the generator set and related accessories. 4. Weights of all equipment. 5. Interconnect wiring diagram of complete emergency system, including generator battery charger, control panel. 6. Engine mechanical data, including heat rejection, exhaust gas flows, combustion air and ventilation air flows, fuel consumption, etc. 7. Generator electrical data including temperature and insulation data, cooling requirements, excitation ratings, voltage regulation, voltage regulator, efficiencies. 8. Generator resistances, reactance's and time constants. 9. Generator Locked Rotor Motor starting curves. 10. Manufacturer's documentation showing maximum expected transient voltage and frequency dips, and recovery time during operation of the	on the judicial paper as per requirement of bid documents	Paper. ORDF. Dr. and Constitution of the Angel Constitution of the An	paper as per requirement of bid documents.	paper as mentioned.	

Mar. Si	generator set at the specified site conditions with the specified loads. 11. Manufacturers and dealers written warranty. System Responsibility Generator Set Distributor The completed engine generator set shall be manufactured in USA/Europe/ Japan and supplied by the Manufacturer's Sole Agency/ Authorized Dealer only.	Not Provided Greaves Pakistan (Pvt.) Ltd. is authorized to sale SDMO France products in Pakistan and quoted MTU engine.	Allied Engineering & Services (Pvt.) Ltd. is sole distributor of manufacturer "Caterpillar, USA".	Not Provided S.M.Jaffer is authorized dealer of FG Wilson UK & FG Wilson UK is Authorized dealer of Caterpillar (NI) USA and quoted Perkins engine.	Not Provided Energy Solutions (Pvt.) Ltd. is Authorized dealer of Aqsa Power Generation Turkey and quoted Cummins. Cummins sole distributor in Pakistan is Orient Energy.	M/s Allied Engineering & Services (Pvt.) Ltd. is the sole distributor/ OEM of engine manufacturer (Caterpillar). Rest our either providing packaged product or are not sole distributors of engine.
DR. BAHRAM KING OF THE PROPERTY OF THE PROPERTY RATES THE PROPERTY RAT	Prime (ISO 8528-1: PRP) Rated Generator Set Warranty The manufacturer's standard warranty shall 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 parts, labor, and reasonable travel expense necessary for repairs at the job site. Running hours shall not be a limiting factor for the system warranty by either the manufacturer or servicing distributor. Submittals received without written warranties as specified will be rejected in their entirety.	5 years standard warranty will be provided by Greaves Pakistan (3000 hours only) and also not submitted guarantee on bond paper.	5 years manufactur er warranty as per all clauses of bid document.	5 years warranty against manufacturi ng defective parts will be provided by SM Jaffer (FGOVESON) MAD FCC OMPONION OF RACIONOS	5 years standard warranty and for consumable (5000 running Hours Only).	M/s Allied Engineering & Services (Pvt.) Ltd. meets the warranty criteria providing 5 years OEM warranty by Manufacturer (Caterpillar)
4	4.6 Parts and Service Qualifications • Service Facility	Complied	Complied	Complied	Complied	All parties

Rasheed Shahili	within 24hrs and 95% within 48 hours. Service Personnel The dealer shall maintain qualified factory trained service personnel.					comply
DR. BAHRAM KH DR. BASAN SORMAN DR. BASAN SORMAN Department of Medical January Postory Karacani.		Complied	Complied APP OF TARIB JROF OF MARRIER JROF DE MARRIER	Complied MAHMOOD MA	Complied	All parties comply

		Other terms and conditions					
W. Castled C.	The state of the s	 The bidder shall visit the site before submission of tender and ensure that cost of all necessary civil/electrical boards/cables/earthling needed to install and commissioning the complete system is included in the tender cost for the two units 1000 KVA Diesel Generating Sets. Necessary civil/electrical boards/cables/earthling etc. needed to install and commissioning the complete system as per standard shall be responsibility of successful firm/vender. The successful firm/bidder shall provide Genset for backup at onsite till new unit 1000 	Complied	Complied	Complied	Complied Complied	All parties comply
of AHRA	N KHA	KVA Genset installation, testing & commissioning. Their rent expenses will be included in tender cost. 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 tine description)	Provided	Provided	Provided Provided Office of the property of the provided of the provided of the property of the provided of	Notprovided	All have provided except Energy Solution (Pvt.) Ltd.
ABBS DOS IN PABBS Skistant of ABBS Skist	Dermit and Cal	Vendor must also enclose a soft copy on CD/USB in addition to hard copy for technical evaluation committee	Complied	Complied . The De	ocomplied	Complied	All parties comply
No8f		The bidder must indicate the number of 1000 KVA Generating Sets installed within Pakistan especially in health sector and letter of satisfaction from the end user.	Complied	Complied image	Complied	Complied	All parties comply
Aul labor		Quality Safety Standards: The bidder should have own in-house facility of minor and major overhauling works simultaneously for fuel pump injector calibration.	Available	Available	Available	Available	All parties comply
		Country of manufacture and origin should be USA/Europe/Japan and equipment approval of their respective quality standards is mandatory.	France	USA	UK	Either USA or UK	

Concluded findings:

- M/s Allied Engineering & Services (Pvt.) Ltd. is a sole distributor of Complete Genset Manufacturer (Engine, Alternator and Control Panel) "Caterpillar, USA", providing 5 Years OEM warranty including with service contract including consumables, overhauling works, repair parts, labor, and travel expense for repairs at the job site.
- M/s Greaves Pakistan (Pvt.) Ltd. offered 5 years warranty (3000 hours only) whereas, Greaves Pakistan is not manufacturer.
- S. M. Jaffer offered 5 years warranty shall be provided against any manufacturing defective parts whereas warranty is required from manufacturer.
- M/s Energy Solutions (Pvt.) Ltd. offered 5 years warranty and for consumable (5000 running hours only) by ESL/ Aqsa Turkey, whereas warranty is required from manufacturer.
- M/s Allied Engineering (Pvt.) Ltd. and S.M.Jaffer & CO. offered DVR and comply whereas M/s Greaves Pakistan and M/s Energy Solutions have quoted AVR instead of DVR.
- As per technical specification sKVA 0.4 PF is required, which complied by M/s Allied Engineering & Services (Pvt.) Ltd. and M/s Energy Solutions (Pvt.) Ltd.

Conclusion:

- 1) M/s Greaves Pakistan Pvt. Ltd. does not meet the required specification hence not qualified technically.
- 2) M/s Allied Engineering & Services Pvt. Ltd. meets the required technical specification hence technically Qualified.
- M/s S.M.Jaffer & CO. does not meet the required specification hence not qualified technically.
- 4) M/s Energy Solutions Pvt. Ltd. does not meet the required specification hence not qualified technically.

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

MBBS,DDS,M.Sc.Derm (UK)
Assistant Professor
Department of Dermatology
Jinnah Postgratuate Medical Centre

(Dr. Behram Khan Khoso Prachi Member & Assistant Professor of Dermatology

Jinnah Postgraduate Medical Centre, Karachi

Representative of Deputy Commissioner (South) Karachi

(Dr. Abdul Jabbar Memon)

Member & Deputy Director (Dev)

Opresentative of Health Department, Govt. of Sindh, Karachi

Chairman & Head of Ranology, Cyberknife & Oncology Department Jinnah Postgraduate Medical Centre, Karachi

Dated 28-11-2016

SUBJECT:-

MINUTES OF THE MEETING REGARDING THE OPENING OF TECHNICAL BIDS FOR THE TENDER FOR "SUPPLY & INSTALLATION OF 1000 KVA GENERATING SETS (TWO UNITS) FOR JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI" (C.M. DIRECTIVE) THROUGH SNE FOR THE YEAR 2016-17.

A meeting of Procurement Committee constituted vide Government of Sindh, Health Department's Notification No SO(PM&I)2-1/2016-17/PM-01/(JPMC) Dated 10-10-2016. was held on 28-11-2016 at 11:00 AM under the chairmanship of Chairman Procurement Committee at Committee Room, Administration Block, in order to undertake the Technical Appraisal of the Bids submitted against the Government of Sindh, Jinnah Postgraduate Medical Centre's Tender Notice published in newspapers namely The daily English "The Frontier Post dated 28-10-2016, the daily Urdu "Daily Ummat" dated 28-10-2016, the Daily Sindhi "Awami Awaz" dated 28-10-2016, vide NIT Advertisement No. INF/KRY-4055/2016 as well as same NIT was also hoisted on SPPRA official website with the SPPRA S.No. 30306.

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

- Prof. Tariq Mahmood, Head of Radiology, Cyberknife & Oncology Dept., JPMC, Karachi,
- 2. Dr. Behram Khan Khoso, Assistant Professor of Dermatology. JPMC, Karachi,
- 3. Dr. Abdul Jabbar Memon. Deputy Director (Dev), Representative from Health Department. Govt. of Sindh. Karachi.
- 4. Representative from Works & Services Dept. (E/M Division).
- 5. Representative from Deputy Commissioner (South) Karachi

PROF. Challago MAHMOOD Head Department of No. read Denartment Of Rodord Oncology

Cybe Men Dear): Marca Gente, Karachi
Jinnah Positi Dear): Marca Gente, Karachi (Member)

Jinnah Postgratuate A

(Member)

Assistant Engineer The Committee members were informed that, in response to the Tender of Division No. VIS Advertisement, following Ten (10) firms purchased the bidding documents issued against achi cash of Rs. 2000/- (non-refundable Tender fee), that are:

- Synergy Corporations
- Hospital Solutions
- Allied Engineering & Services (Pvt.) Ltd
- Greaves Pakistan (Pvt.) Ltd
- Orient Energy
- Jaffer Brothers
- S.M. Jaffer & CO.
- Mia Energy
- **Energy Solutions**
- Masco Energy Services

(Member)

(Saljad Ahhed Abro) Assistant Confinistioner and all Assistant Confinistioner and a second confinistioner and a second confinistioner and a second confinished as a second

Out of Ten (10), only four (4) firms namely: M/s Greaves Pakistan (Pvt.) Ltd., M/s Allied Engineering & Services (Pvt.) Ltd., M/s S.M.Jaffer & CO. and Energy Solutions (Pvt.) Ltd. have submitted their bids on of 28-11-2016 till 11:00 AM.

The Chairman of Procurement Committee welcomed all the participants as well as procurement committee members and requested to bidders to introduce themselves.

Accordingly, the bids were opened as per scheduled on 28-11-2016 at 11:30 AM in the presence of representative of bidders. All the members of the procurement committee signed the sealed envelopes. Technical Offers were opened and signed while Financial Offers were sealed in front of representative of the firms.

Meeting ended with the vote of thanks to the chair.

Representative of Works & Services Department (E/M Division) Govt of Sindh, Karachi and Will

Provincial Electrical Sul Karachi Representative of Deputy Commissioner (South)

Assistant Commissioner Se District South Karacini

DR. BAHRAM KHAN
MBBS.DDS,M.Sc.Derim (UK)
Assistant Professor
Department of Dermatology
Jinnah Postgratuats Medical Centre

(Dr. Behram Khan Khoso)

Karaohi.

Member & Assistant Professor of Dermatology Jinnah Postgraduate Medical Centre, Karachi

r. Ab.J. Linbbar (Dr. Abdul Jabbar Memon)

Member & Deputy Director (Dev)

Representative of Health Department, Govt. of Sindh, Karachi

(Prof. Tariq Mahmood Noncology Department Jinnah Postgraffuate Medical Centre, Karachi

Magh Postor advanta Cyberknife Ro

NIT Sr. No.: SPPRA Sr. No.30306

Dated 25-11-2016

BIDDERS ELIGIBILITY / QUALIFICATION REPORT

SUBJECT:- TENDER FOR "SUPPLY & INSTALLATION OF 1000 KVA GENERATING SETS (TWO UNITS) FOR JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI" (C.M. DIRECTIVE) THROUGH SNE FOR THE YEAR 2016-17.

S.No.	Particulars	M/s Greaves Pakistan (Pvt.) Ltd.	M/s Allied Engineering & Services (Pvt.) Ltd.	M/s S.M. Jaffer & Co.	Energy Solutions (Pvt.) Ltd.
1.	Original Tender purchased receipt	Yes	Yes	Yes	Yes
2.	Earnest money submission (Original attach with financial proposal and copy attach with technical proposal).	Yes	Yes	Yes	Yes
3.	Compliance of terms and conditions in original duly signed & Stamped.	Yes	Yes	Yes	Yes
4.	Copy of active sales tax registration certificate	Yes	Yes	Yes	Yes
5.	Copy of income tax certificate	Yes	Yes	Yes	Yes
6.	Copy of Pakistan Engineering Council Certificate	Yes	Yes	Yes	Yes
KHAN Miller Ology al Centre 8.	Sole Agent / Authorized Distribution Certificate	Yes	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	Yes
9.	The bidder must indicate the number of 1000 KVA Generating Sets installed within Pakistan especially in health sector	Yes	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	Yes
11.°	Remarks MAHMOOD	Qualified	Qualified	Qualified	Qualified

PROF. Dr. TARIO MAHMOOD
PROF. Dr. TARIO MAHMOOD
WERS DWRD.
WERS DWRD.
Head Department of Radiology
Head Department of Radiology
Glocknife Robotic Radiosof Retro

Dentity Development Bereit

Assistant Commissioner Saudar District South Karachi OPENING OF TENDER NO.F.1-1/2015-16-(M&R-SNE)/JPMC FOR THE SUPPLY & INSTALLATION OF 1000 KVA GENERATING SETS (02 UNITS) FOR JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI.

ATTENDANCE SHEET OF PROCUREMENT COMMITTEE

S.NO	NAME	SIGNATURE TO SIGNATURE
1	Prof. Tariq Mehmood, Chairman & Head of Department of Radiology, JPMC	SIGNATURE TARIO ON FORMATION OF THE REAL PROPERTY O
2	Dr. Behram Khan Khoso, Assistant Prof., JPMC	Cybernite Control of Charles of of C
3	Representative from Works & Services (E/M) Division, Karachi	Om Government Engine
4	Representative from Health Department, Government of Sindh, Karachi	Abdus Jabbar
5	Representative from Deputy Commissioner (South) Karachi	A STATE OF THE STA

(Sajjad Ahmed Abro)
(Sajjad Ahmed Abro)
Assistant Commissioner Saddar
District South Karachi

Dated: 28-11-2016

LIST OF FIRM WHO ATTEND THE TENDER MEETING

TENDER NO.F.1-1/2016-17/(M&R-SNE)/JPMC

FO! THE SUPPLY & INSTALLATION OF 1000KVA GENERATING SET: (02 UNITS) FOR JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI.

S.NO	NAME OF FIRMS	SIGNATURE WITH NAME OF PERSON	MOBILE NUMBER
1	SM . Taffer + Co.	Ame Sped Hosen	0335-1200399
2	GREAVES PARISIAN	Tobre & Jul AHEER (0322)293707/
3	Allied Engruing	Perkiet Sw.	13000 - 389225
4	ENERGY SOLUTIONS PUT LED	Myla M. Mujtaba Taha	0333-2299346
5	TO WAHN	OB, 'val A	
6	PROF. Dr. N. G. B. J. J. G.	Oncolor (aracin	
7	PROF. Dr. M. G. B. T. O. P. B. C. C. M. B. B. C. C. C. B. B. C.		
8			
- 9			
Stant F	Oce Junior Dr. Abdul Jabb Deputy Director (Dov. Health Department 20th Director)	Saljad Ahm Saljad Ahm	led Abrol hissioner sadni nissioner sadni

Dated: 28-11-2016

LIST OF FIRM WHO DROP THE TENDER IN THE BOX

TENDER NO.F.1-1/2016-17/(M&R-SNE)/JPMC

FOR THE SUPPLY & INSTALLATION OF 1000KVA GENERATING SETS (02 UNITS) FOR JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI.

S.N	NAME OF FIRMS	SIGNATURE WITH NAME OF PERSON	MOBILE NUMBER
1	S.M. Jafer & Co.	Mina Sjed Husson M. Faixon	0335-1200399,
2	Energy Solutions (LA) HA	7	0301 8254754
.3	Greavus Pakiste	Ahmel Rosa Sahal RAHEEL	0322 2299346
4	AWED E-884 Sevice	VASILEEN A. KHAGER	0342-2329304
6			
7			
8			
9			

Assistant Engineer
Provincial Electrical Sub-Division No. 1991
Raractas

A REAL CONTROL OF THE REAL OF THE RATION OF

Dr. Abdul Jabbary Deputy Director (Day-4) Health Department

ENGINEERS & CONTRACTORS se, 17 Timber Pond, Keamari, P.O. Box No. 4488, KARACHI-75620 (PAKIS UAN : 0092-21-111-765-765

ESTABLISHED 1949

Fax : 0092-21-32851162, 32850086

E-mail : info@smiaffer.com Website

: www.smjaffer.com

G-1090/3240/2017 OUR REF:

DATE25th Feburaury 2017

Chairman (Procurement Committee) Jinnah post gradute medical center (jpmc), Rafiqui shaheed road, Karachi-75510.

TENDERS FOR THE "SUPPLY & INSTALLATION OF 1000 KVA GENERATING STES (TWO UNITS) FOR JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI" THROUGH SNE FOR THE YEAR 2016-17

One Month Bid Extension

Dear Sir,

With Reference to your letter No.F.1-2016-(M&R-SNE)/ 15795/JPMC dated 21st Feburary 2017 we hereby confirm that our bid will be valid from 28-02-2017 to 28-03-2017.

Sved Hassan Manager projects 0335-1200399



GREAVES PAKISTAN (PRIVATE) LIMITED

ENGINEERS & MERCHANTS

MODERN MOTORS HOUSE, BEAUMONT ROAD, POST BOX 4908, KARACHI-75530, PAKISTAN.

UAN : (0092-021) 111-354-111 PHONES: (0092-021) 35682565-35682566-35682567-35682569-35682570 FAX : (0092-021) 35682839, 35683425 E-mail: information@gfg.com.pk



February 22, 2017

The Dy. Director Jinnah Postgraduate Medical Centre. Karachi

Sub: One Month Extension Required for the Tender "Supply & Installation of 1000KVA Generating Sets (Two Units) for Jinnah Postgraduate Medical Centre, Karachi"

Through SNE for the Year 2016-2017

Dear Sir.

Referring your letter reference # F-1-2016- (M&R-SNE) / 15795/JPMC regarding above subject, we hereby extend one month bid-validity i.e. 28/2/2017 to 28/3/2017.

Kindly acknowledge receipt.

Thanking and assuring you of our best attention at all times, we remain.

Yours faithfully,

For Greaves Pakistan Private Limited

Ahmed Raza Nagvi

AGM Sales

(Business & Development)

0322-2937076





Allied Engineering & Services (Pvt.) Ltd.

21/3, Sector No. 22, Korangi Industrial Area, Karachi-74900 G.P.O. Box 940 Karachi-74200, Pakistan. UAN: 111 250 250 Tel: (021) 3506 6901-13 Fax: (021) 3506 6915 & 16 Email: admin@aesl.com.pk

Ref # RMS-016/2017 February 22, 2017

The Executive Director

Jinnah Postgraduate Medical Center

Karachi.

Attn

Chairman

(Procurement Committee)

Re

ONE MONTH EXTENSION FOR 1000 KVA TENDER BID VALIDITY

Dear Sir.

This is with reference to your letter # F.1-2016-(M&R-SNE)/15795/JPMC dated February 21, 2017 for requesting One Month Extension in Bid Validity for detailed analysis.

We hereby confirm the validity of our bid as 28-03-2017 instead of 28-02-2017 as per last validity.

Thank you & Regards,

Zeeshan Kàzmi Regional Manager

CAT Power Systems

Allied Engineering & Services (Pvt.) Ltd.

Most Immediate. By Special Messenger.

NO.F.1-2016-(M&R-SNE)/

/JPMC

GOVERNMENT OF SINDH
JINNAH POSTGRADUATE MEDICAL CENTRE

KARACHI-75510

Dated the

/ February, 2017.

To.

M/s Greaves Pakistan (Pvt.) Ltd. Karachi.

M/s Allied Engineering & Services (Pvt.) Ltd. Karachi.

M/s S.M.Jafer & Co. Karachi.

M/s Energy Solutions (Pvt.) Ltd. Karachi.

Subject:

ONE MONTH EXTENSION REQUIRED FOR THE TENDER "SUPPLY & INSTALLATION OF 1000 KVA GENERATING SETS (TWO UNITS) FOR JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI" THROUGH SNE FOR THE YEAR 2016-17.

In reference to the subject tender, it is stated that the bids are valid for 90 days, technical bids are under process of technical evaluation, which were opened on 28-11-2016 and one month's extension in bid validity is required for detailed analysis, preparation of Bid Evaluation Report, Letter of Acceptance, Contract Award, Contract evaluation Form etc.

It is therefore requested to extend one month bid validity i.e. 28-02-2017 to 28-03-2017 and please submit confirmation to the undersigned, address to the Chairman (Procurement Committee).

(Dr. YAHYA KHAN TUNIO) DEPUTY DIRECTOR

Copy to:-

1. Ps to the Executive Director, JPMC, Karachi.

21-02-2017

B Jan 12/17

Maintenance & Repair Section

Dated: 20th February, 2017

SUBJECT:-

ONE MONTH EXTENSION REQUIRED FOR THE TENDER "SUPPLY & INSTALLATION OF 1000 KVA GENERATING SETS (TWO UNITS) FOR JINNAH POSTGRADUATE MEDICAL CENTRE, KARACHI" (C.M. DIRECTIVE) THROUGH SNE FOR THE YEAR 2016-17.

In reference to the subject tender, it is stated that the bids are valid for 90 days, technical bids are under process of technical evaluation, which were opened on 28-11-2016 and one month's extension in bid validity is required for detailed analysis, preparation of Bid Evaluation Report, Letter of Acceptance, Contract Award, Contract evaluation Form etc.

As per relevant SPPRA Rule, a letter may be sent to firms participating in the subject tender for one month extension in bid validity and also confirmation required that their submitted bids are valid for more 30 days i.e. 28-03-2017 and they have no objection in this regard.

In the context of above, permission may please be granted to send a letter for one month's extension in bid validity to firms participating in the subject tender.

Submitted for orders, please

ASSISTANT

ASSISTANT DIRECTOR (M&R and GENERAL-II)

DEPUTY DIRECTOR

CHAIRMAN PROCUREMNT COMMITTEE

EXECUTIVE DIRECTOR

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JINNAH POSTGRADUATE MEDICAL CENTRE KARACHI A/C S.M. JAFFER & CO

ONE MILLION FIVE HUNDRED THOUSAND ONLY

PKR

Authorized Signatory PA No.

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