

GOVERNMENT OF SINDH
JINNAH POSTGRADUATE MEDICAL CENTRE
KARACHI-75510

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

Dated: 26th April, 2017

TENDER NOTICE

The Executive Director, JPMC, Karachi hereby invites sealed bids on Single stage Two-Envelop bidding procedure as per 46 (2) of SPP Rule 2010 (Amended 2017) for the Purchase of Machinery & Equipment under (Revenue Component) in respect of ADP development Scheme "Provision of Equipment for Surgical Complex at Jinnah Postgraduate Medical Centre, Karachi" during financial year 2016-17:-

S.No.	Description of Work	Bill of Quantities & Drawings	Cost of Tender	Opening of Bids	Bid Security
1.	Supply & Installation of 1500 kVA Generating Sets (Two Units) for Surgical Complex at Jinnah Postgraduate Medical Centre, Karachi.	Mentioned in Bidding Documents	Rs.2000/=	18-05-2017	2.5% of quoted items
2.	Supply & Installation of 1500 kVA Transformers (Two Units) for Surgical Complex at Jinnah Postgraduate Medical Centre, Karachi.	Mentioned in Bidding Documents	Rs.2000/=	18-05-2017	2.5% of quoted items
3.	Supply & Installation of 625 kVA UPS for Surgical Complex at Jinnah Postgraduate Medical Centre, Karachi.	Mentioned in Bidding Documents	Rs.2000/=	18-05-2017	2.5% of quoted items

Issuance of Bidding /Tender Documents: Each Tender / Bidding Documents can be purchased from Cashier of this Centre against cash payment of Rs. 2000/- from 01-05-2017 to 17-05-2017 during office hours on working days.

Submission: Tender will be submitted in the Tender Box, placed at Hall-B, Najamuddin Auditorium, JPMC on 18-05-2017 between 9.00 AM to 10.30 A M.

Opening: The Tender will be opened on same day i.e 18-05-2017 at 11.00 AM in the presence of representative of firm.

Terms & Conditions:

Under the following terms & Conditions bid will be rejected:

- Conditional & telegraphic bids tenders.
- Bids not accompanied by bid security of required amount & Form.
- Bids received after specified date & Time.
- Bids of Black listed firms.

For further details contact phone # 99201300 Ext. 2552, 2297.


DR. SEEMIN JAMALI
EXECUTIVE DIRECTOR



Government of Sindh
Health Department

NOTIFICATION

Handwritten signature and date: 20/04/16

No.HD (P&E) 6-1 (4) / 2016. The Government of Sindh, Health Department is pleased to constitute a Procurement Committee, comprising of following members for Purchase of Machinery & Equipment under (Revenue Component) under Rule-7 of Sindh Public Procurement Rules 2010 Amended 2017, in respect of ADP development scheme "PROVISION OF EQUIPMENT FOR SURGICAL COMPLEX AT JPMC KARACHI"

1	Prof: Tariq Mahmood Head of Radiology, Cyberknife & Oncology Dept, JPMC	Chairman
2	Dr. Yahya Khan Deputy Director, JPMC	Member / Secretary
3	Representative from Health Dept. (Development wing)	Member
4	Representative from Works & Services Dept. (E&M Division)	Member
5	Representative from Accountant General (Sindh)	Member
6.	Representative from Nespak (E/M Division)	Co-opted Member

The committee will responsible to observe all the codal formalities as per Sindh Public Procurement Rules 2010 (Amended 2017).

(DR.FAZLULLAH PECHUHO)
Secretary Health

NO.HD (P&E) 6-1 (9) / 2016,

Karachi, dated 17-04-2016.

C.c. to:

1. Secretary Works & Services Department, Karachi with a request to nominate the member or his representative (not below the rank of BPS-18) for above said committee.
2. Accountant General Sindh, Karachi with a request to nominate the member or his representative (not below the rank of BPS-18) for above said committee.
3. Managing Director, Sindh Public Procurement Regulatory authority, Karachi..
4. Executive Director Jinnah Post graduate Centre, Karachi.
5. All the member of Committee.
6. P.S. to Secretary, Health Department, Govt. of Sindh, Karachi.

Handwritten signature
Research Officer (Dev)



NO.HD(P&E) 3-2 (427)/2014
GOVERNMENT OF SINDH
HEALTH DEPARTMENT
(Procurement, Monitoring and Inspection Cell)
Karachi dated the 10th APRIL, 2017.

ADM
27/4/17

NOTIFICATION

No.HD(P&E)3-2(427)/2014. In supersession to this department's notification of even number dated 9-03-2017 and in pursuance of Rule 31 of the Sindh Public Procurement Rules, 2010, a Departmental Complaint Redressal Committee, comprising of following officers is hereby re-constituted as under to resolve complaints of aggrieved bidders:

- | | |
|---|------------------|
| 1. Special Secretary,
Health Department. | Chairman |
| 2. Representative from Accountant General Sindh, | Member |
| 3. Independent expert from relevant field concerning
(to be nominated by the Head of Procuring Agency) | Member |
| 4. Deputy Secretary (PM&I) | Member |
| 5. Deputy Secretary (General) | Member/Secretary |



ToRs.

- To perform according to Rule 31 of SPPRA, 2010.
- To Perform any other function ancillary and incidental to the above.

- DR. FAZLULLAH PECHUHO -
SECRETARY TO GOVERNMENT OF Sindh

No.HD(P&E)3-2(427)/2014.

Karachi dated the 10th APRIL, 2017

1. The D.G.Health Services, Sindh, Hyderabad. JPMC Karachi
2. The District Health Officers (All)
3. Medical Superintendents (All)
4. All the Member of the Committee.
5. The PS to Secretary Health Department, Govt. of Sindh, Karachi.
6. Office order file.

SECTION OFFICER (PM&I)

**GOVERNMENT OF SINDH
JINNAH POSTGRADUATE MEDICAL
CENTRE KARACHI-75510**

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Dated: 26th April, 2017

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- . Bids of Black listed firms.

For further details contact phone # 99201300, Ext. 2552, 2297

Dr. Seemin Jamali
Executive Director



حکومت سندھ
جناح پوسٹ گریجویٹ میڈیکل سینٹر
کراچی - 75510

ٹینڈر نمبر - 1-349/2016-17 P&D/JPMC تاریخ: 26 اپریل 2017

ٹینڈر نوٹس

ایگزیکٹو انجینئر، JPMC، کراچی کو (2) SPP-46(2010) (ترمیم شدہ 2017) کے تحت مل سال 2016-17 کے دوران "جناح پوسٹ گریجویٹ میڈیکل سینٹر، کراچی پر سرجیکل پکٹیس کے لئے سلاسلان کی فراہمی ADP" ترقیاتی اسکیم کے تحت میں (پری ٹینڈر نوٹس) کے تحت شیڈیڈ ہر آلات کی خریداری کے لئے سفلی ٹینڈر نوٹس کی ہدیٰ خریدتے ہوئے پکٹیس میں طلب ہے۔

نمبر	کام کی تفصیل	بولی کی تعداد اور ڈرائنگ	ٹینڈری	بولیوں کا کلنا	بولی کی کٹائی
1-	سپائی اور انسٹالیشن برائے 1500 KVA جزیئر پکٹیس (دو عدد) برائے سرجیکل پکٹیس واقع جناح پوسٹ گریجویٹ میڈیکل سینٹر، کراچی۔	بولی	2000/- روپے	18-05-2017	کوٹ کی گئی اشیا کا 2.5% فیصد
2-	سپائی اور انسٹالیشن برائے 1500 KVA ٹرانسفارمر (دو عدد) برائے سرجیکل پکٹیس واقع جناح پوسٹ گریجویٹ میڈیکل سینٹر، کراچی۔	بولی	2000/- روپے	18-05-2017	کوٹ کی گئی اشیا کا 2.5% فیصد
3-	سپائی اور انسٹالیشن برائے 625 KVA بولٹی ایس برائے سرجیکل پکٹیس واقع جناح پوسٹ گریجویٹ میڈیکل سینٹر، کراچی۔	بولی	2000/- روپے	18-05-2017	کوٹ کی گئی اشیا کا 2.5% فیصد

بولی آئیٹنڈو دستاویزات کا اجراء: ہر ٹینڈر والی دستاویزات دفتر آ کے کیشورے - 2000 روپے کی ادائیگی پر 05-05-2017 تا 17-05-2017 کام دسلان دفتر کی اوقات کار کے دوران خریدنے چاہئے ہیں۔

جمع کروانا: ٹینڈر ہال - B، جمہالیہ آڈیٹوریم، JPMC، پورے ٹینڈر کس میں 18-05-2017 کو 9:00 بجے تا 10:30 بجے کے درمیان جمع کرانا ہوگا۔

کھلنا: ٹینڈر اس دن یعنی 18-05-2017 کو 11:00 بجے ظہر کے نماز تک ان کی موجودگی میں کھلے جائیں گے۔

شرائط و ضوابط:

- مندرجہ ذیل شرائط و ضوابط پر بولی مسترد کر دی جائے گی:
- مسترد اور ٹیگی کرنا کتب بولیاں / ٹینڈر۔
- مطلوبہ رقم اور صورت کے بغیر موصول ہونے والی بولیاں۔
- مقررہ تاریخ اور وقت کے بعد موصول ہونے والی بولی۔
- بیک اسٹ فرموں کی بولیاں۔

مزید تفصیلات کے لئے فون نمبر 199201300 تک ٹینڈریشن 2297، 2552 پر رابطہ کریں۔

ورسٹا

ایگزیکٹو انجینئر

8398

کراچی کی مخالفت کریں۔ ہم ہمیشہ کراچی کے خلاف نہیں ہیں۔

INF-KRY-2269/17

سوڀ

Daily
SOBH
Karachi

ڪراچي

ايڊيٽر: ظهير علي شاھ

021-35156121-6, 022-2650655-7

جلد 12 | جمع 28 اپريل 2017 | بمطابق پهرين شعبان المعظم 1438ھ | قيمت 10 روپيا | شمارو 354

حڪومت سنڌ

جناح پوسٽ گريجوئيٽ ميڊيڪل سينٽر

ڪراچي-75510

NO. 1-349/2016-17 P&D/JPMC Dated: 26.04.2017

ٽينڊر نوٽيس

ايگزيڪيوٽو ڊائريڪٽر، جي پي ايم سي ڪراچي، جي ايم سي پي ڊي ڊي 2010 (46) (ترميم ٿيل 2017) جي تحت مالي سال جي دوران جناح پوسٽ گريجوئيٽ ميڊيڪل سينٽر، ڪراچي، وٽ سر جيڪيل جي لاءِ ساڙو سامان جي فراهمي آي ڊي پي ٽرڪيائي اسڪيم جي سلسلي ۾ (روپيوڪمپوشنس) جي تحت مشينري ۽ اوزارن جي خريداري لاءِ سٽڪ اسٽيج ۾ لافان جي واڪ جي طريقيڪار تي مهينن واک ڳهرائڻ لاءِ.

نمبر	ڪم جا تفصيل	واڪ جو تعداد ۽ برائنگز	ٽينڊر جي قيمت	واڪ کڻڻ واڪ کڻڻ سڪيورٽي
1	سپلا ۽ تنصيب براه 1500 ڪي وي اي جتريئر (به عدد) براه سر جيڪيل ڪامپليڪس واقع جناح پوسٽ گريجوئيٽ ميڊيڪل سينٽر، ڪراچي	واڪ دستاويز ن ۾ درج آهي	2000	ڪوٽ ڪيل شين جو 2.5 سيڪڙو
2	سپلا ۽ تنصيب براه 1500 ڪي وي اي ٽرانسفارمر (به عدد) براه سر جيڪيل ڪامپليڪس واقع جناح پوسٽ گريجوئيٽ ميڊيڪل سينٽر، ڪراچي	واڪ دستاويز ن ۾ درج آهي	2000	ڪوٽ ڪيل شين جو 2.5 سيڪڙو
3	سپلا ۽ تنصيب براه 625 ڪي وي اي پي پي ايم سي براه سر جيڪيل ڪامپليڪس واقع جناح پوسٽ گريجوئيٽ ميڊيڪل سينٽر، ڪراچي	واڪ دستاويز ن ۾ درج آهي	2000	ڪوٽ ڪيل شين جو 2.5 سيڪڙو

واڪ ٽينڊر دستاويزن جو چاري ڪرن: هر ٽينڊر واڪ دستاويز هن آفيس جي ڪمپيوٽر کان 2000 روپين جي ادائگي تي 01.05.2017 کان 17.05.2017 تائين ڪم واري ڏينهن تي آفيس وقت دوران خريد ڪري سگهجن ٿا. جمع ڪرائڻ: ٽينڊر حال ۾، نجر الدين آڊيٽوريم، جي پي ايم سي ٽي ٽي ڪي ٽينڊر باڪس ۾ 18.05.2017 تي صبح 09 وڳي کان 10:30 وڳي جي وچ ۾ جمع ڪرائڻا پوندا.

ڪلن: ٽينڊر انهن ڏينهن 18.05.2017 تي 11 وڳي فرم جي نمائندن جي موجودگي ۾ ڪوٺيا ويندا.
شرط ۽ ضابطو:
هيٺ ڄاڻايل شرطن ۽ ضابطن تحت آڇون رد ڪيون وينديون.
شرطي ۽ ٽيلنگرافڪ آڇون/ٽينڊر
گهرويل رقم ۽ صورت کان سواءِ جمع ڪرائيل آڇون.
مقرر ڪيل تاريخ ۽ وقت کان پوءِ پھتل آڇون.
بليڪ لسٽ ٿيل فرمون.
وڌيڪ تفصيلن لاءِ فون نمبر: 99201300، ايڪسٽينشن 2297، 2552 تي رابطو ڪريو.

ايگزيڪيوٽو ڊائريڪٽر

INF-KRY. 2269 2017

GOVERNMENT OF SINDH
JINNAH POSTGRADUATE MEDICAL CENTRE
KARACHI



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.



Due on: 18-05-2017

GOVERNMENT OF SINDH
JINNAH POSTGRADUATE MEDICAL CENTRE
KARACHI-75510

TENDER DOCUMENT

TENDER NO.F.1-349/2016-17-(P&D)/JPMC

TENDER FOR SUPPLY AND INSTALLATION OF 1500 kVA GENERATING SETS
(TWO UNITS) FOR JINNAH POSTGRADUATE MEDICAL CENTRE KARACHI
FOR THE YEAR 2016-17

DUE ON 18-05-2017

COST OF TENDER	Rs. 2000/= (Rupees five Thousand Only) non refundable
TENDER SELLING DATE	From 01-05-2017 To 17-05-2017
TENDER SUBMISSION PLACE	HALL-B, NAJAMUDDIN AUDITORIUM, JPMC, KARACHI
TENDER SUBMISSION DATE	18-05-2017
TENDER SUBMISSION TIME	09:00 AM to 10.30 AM
TENDER OPENING PLACE	HALL-B, NAJAMUDDIN AUDITORIUM, JPMC, KARACHI
TENDER OPENING DATE	18-05-2017
TENDER OPENING TIME	11:00 AM



*Note : No tender will be accepted after closing the Tender box,
What so ever reason may be.*

NO.F.1-349/2016-17-(P&D)/JPMC
GOVERNMENT OF SINDH
JINNAH POSTGRADUATE MEDICAL CENTRE
KARACHI-75510

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

TERMS AND CONDITIONS / INSTRUCTIONS TO BIDDERS

- 1) Single Stage - Two Envelopes procedure as per SINDH PPRA-2010 Rule 46(2) will be followed (single stage two envelopes procedure) i.e. **TECHNICAL** and **FINANCIAL PROPOSAL** will be placed in separate sealed envelopes and marked accordingly These two envelop should be placed in one envelop addressed to the Executive Director, JPMC, Karachi with Tender number and inserted in the tender box on scheduled date and time.
- 2) The Bidder shall prepare bid containing "**FINANCIAL PROPOSAL**" and "**TECHNICAL PROPOSAL**" in bold and legible letter to avoid confusion. The financial and technical bids, each consisting of the documents listed above.

In Technical Proposal the bidder must provide the original Data sheet and Technical brochure, Income Tax, Sales Tax, Sole Agency certificate and other documents; otherwise the bid will not be accepted.

In Financial Proposal, the bidder should provide bid security / earnest money at the rate of 2.5% of the quoted value. Financial Proposal should contain quoted rate and original bid security. A copy with erased value of amount to be placed in technical proposal depicting the proof of submission bid security.
- 3) The purchaser will initially open only the envelopes marked "**Technical Proposal**" in the presence of Bidders or their representatives who chose to be present at the time of bid opening date, time and place specified in the tender documents. The Bidder or their representative who are present shall sign the attendance sheet. The envelope marked "**Financial Proposal**" shall be retained in the custody of purchaser without being opened till the completion of the Technical Evaluation.
- 4) Bids shall remain valid for 90 days from the date of opening. A bid valid for a shorter period shall be rejected as being non-responsive.
- 5) The bidders shall quote their prices inclusive of all duties /taxes/Octroi transportation etc, and all other expenses on free delivery to Consignee's end in local currency.
- 6) Price should be quoted in clear manner including of Figures & words both, failing which the offer will be ignored.
- 7) The bid prepared by the Bidder shall comprise the following documents:
 - (a) Bid Form & Price Schedules duly completed by the Bidder.
 - (b) The Bidder shall furnish a bid security @ 2.5% of the quoted value in the form of Pay Order / Bank Draft in the financial proposal.
 - (c) The original catalogue must accompany with offer.



- (d) Sole Agency / Authorized Dealer Certificate from the OEM must be provided by the bidder.
 - (e) The service manual with circuit diagram will be provided (for equipment)
 - (f) A certificate from the manufacturer that the offered machine / equipment being used in the country of origin.
 - (g) A detail data sheet having description of the essential technical and performance characteristics of the offered equipment.
 - (h) The original tender purchase receipt.
 - (i) Bidders shall purchase separate tender document and furnish purchase receipts for alternate offer, in case they want to submit alternate offer. Any item's bid with alternate offers without separate purchase receipt (Original) is supposed to be rejected.
 - (j) The bidder shall furnish copy of valid Professional Tax (Excise & Taxation) Certificate/Income Tax Certificate/GST Registration Certificate.
 - (k) Bidder shall submit guarantee letter that the supplied Machinery / Equipment is the original / brand new product / latest model, none of the part is replaced, old or refurbished.
 - (l) Bidder must enclose a list of users in Sindh / Pakistan of the quoted items. Bidder must submit the proof for the availability of workshop & trained engineers qualified persons for the machines at Sindh for after sale service.
 - (m) Bidder must enclose sealed Bank letter of financial capacity of firm addressed to the Executive Director JPMC, Karachi in financial proposal.
- 8) The prices quoted by the Bidder shall be fixed during the performance of the contract and not subject to variation on any account. A bid submitted with an adjustable price or conditional will be treated as non-responsive and rejected.
- 9) Initially the bid evaluation will be performed after that Technical Specification will be evaluated by Technical Committee on the basis of the data sheet and the literature provided / submitted by the firm. Financial bids of technical qualified firms will be opened.
- 10) All pages of the bid shall be signed & duly stamped by the person or persons signing the bid accept for un-amended printed literature and duly stamped.
- 11) The bid shall contain no alterations, omissions, or additions, unless such corrections are initialed by the person or persons signing the bid.
- 12) Bids shall be submitted either by the manufacturer or its sole agent, if submitted by the manufacturer itself then bid of authorized sole agent will be rejected. No sublet will be allowed.
- 13) Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price, which is obtained by multiplying the unit price and quantity, or between subtotals and the total price, the unit or subtotal price shall prevail, and the total price shall be corrected. If there is a discrepancy between words and figures, the amount in words will prevail. If the Bidder does not accept the correction of errors, its bid will be rejected.



- 14) For Purchase on C&F/CFR (Cost and freight) basis, JPMC will issue Contract/Purchase Order. The vendor will carry out all works regarding the import of equipment i.e. from opening of L/C to delivery and installation of equipment. JPMC Administration will provide help as and when required.
- 15) The Vender has to open Letter of Credit in the name of Executive Director, JPMC, Karachi and also mentioned JPMC FTN No. in L/C for item(s) as per purchase order. A copy of all documents should be submitted to JPMC time to time. Only JPMC should be the consignee of the equipment.
- 16) JPMC Administration will assist the vendor in clearing the consignment; JPMC will provide Undertaking and other letters for the exemption of the payment of Sale Tax, Customs charges, Income Tax and other taxes applicable on such import.
- 17) All the (applicable) Government taxes (Income Tax / Stamp Duty) of the value of the contract amount will be deducted from the bills of the Contractors / Suppliers.
- 18) The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of contract under the relevant provisions of SPP Rules 2010 (Amended 2017), without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for the Purchaser's action.
- 19) Prior to the expiration of the period of bid validity, the Purchaser will notify the successful Bidder through Advance acceptance. This will constitute the formation of the contract. Within seven (07) days after receipt of the Advance acceptance, the successful Bidder shall furnish the performance security @ 10% of the contracted amount in the form of Pay Order / Bank Draft / Bank Guarantee and will sign the contract agreement.
- 20) Bid validity can be extended as per SPP Rule 2010 (Amended 2017).
- 21) Sole / Authorized Dealer or Agent once nominated by the manufacturer will be for the whole contract period and manufacturer cannot change during the year in any case. In exceptional cases the tendering authority may approve changes.
- 22) The supplier should submit the bill/Invoice for payment addressed to the Executive Director, JPMC, Karachi after opening of L/C along with following documents :
 - i. Three copies of Bill/Invoice
 - ii. Three copies of Purchase Order
 - iii. Three copies of L/C along with (Performa Invoice, Packing list, insurance, etc.).
 - iv. Bank Guarantee
 - v. Undertaking on stamp paper

The payment scheduling shall be done in accordance to the procurement cycle as notified on SPPRA official web site.



General & Special Conditions of Contract

- 1) The Contract shall be governed by and interpreted in accordance with laws of the Islamic Republic of Pakistan.
- 2) Store is required within delivery period. The bidder may however give their short guaranteed delivery period by which the supply will be completed but not later than 120 days from date of purchase order. No Extension will be granted / accorded for the supply.
- 3) The manufacturer should provide an undertaking that if his sole agent fails to carry out any assignment in total or in part, manufacturer will be responsible to carry out the same.
- 4) The Contract Price shall be made to the Contractor as specified in the Contract Agreement, subject to the general principle / procedure of the Government of Sindh.
- 5) The Contract shall be executed in accordance with the Contract Documents and procedures.
- 6) The Purchaser or its representative shall inspect the Machinery / Equipment to confirm their conformity to the Contract specification. The inspection will be conducted at the premises of consignee after receipt of supply.
- 7) If the Contractor fails to attain Completion of the supply or installation within the Time for Completion shall pay to the Purchaser liquidated damages at the rate of 2% per month (0.5% per week) of the Contract Price, or the relevant part thereof. The aggregate amount of such liquidated damages shall in no event exceed the amount of 10%. Once the "Maximum" is reached, the Purchaser may consider termination of the Contract.
- 8) The Contractor warrants that the supplied equipment or any part thereof shall be free from defects in the design, engineering, materials etc. In case of defect in any part at the time of supply of installation it shall be replaced with new one instead of repair.
- 9) The purchaser, without prejudice to any other remedy for breach of contract by written notice of default sent to the supplier, may terminate this contract in whole or in part:
 - (a) If the supplier fails to deliver any or all of the contracted items within the period(s) specified in the Contract, or within any extension thereof granted by the Purchaser.
 - (b) If the Supplier fails to perform any other obligation(s) under the Contract.
 - (c) If the supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.
- 10) Service charges @ current prevailing charges of the value of the Contract will realized/charged by the A.G. Sindh, while making payment to the contractors for award of each contract.



Criteria for Evaluation of Bids

In Addition to the evaluation criteria document the following must be ensured:

- 1 Earnest money submission (Original attach with financial proposal and copy attach with technical proposal).
- 2 Compliance of terms and conditions, required documents / information as described in the Instructions of bidders, General and special conditions of the bid document. Bidder must qualify the bid evaluation. Only qualified bid evaluation bidders will be evaluated technically.
- 3 Relevant Experience and past performance of manufacturer / sole Dealer in terms of supply & after sale service.
- 4 After sale service facility with availability of work shop, Technical staff, Tools and spare parts.
- 5 Authority letter from manufacturer with validity period not less than five years.
- 6 Submission of original Catalogue with complete mailing address of the company, telephone / Fax Nos. and Web site for each quoted item.
- 7 Technical evaluations as per tender specification.
- 8 Operational cost of equipment.
- 9 Delivery schedule.
- 10 Evaluation of quoted price (After opening financial proposal).

UNDERTAKING

- a) That I/we agree whether our tender accepted for total, partial or enhanced quantity for all or any single item. I/We also agreed to supply and accept the said item at the rates for the supply of contracted quantity within the stipulated period shown in the contract.
- b) I/We understand and confirm the refund of cost difference if the same goods is/was supplied at lower rates to any other Govt. /Semi Govt. institution in the province in the same fiscal year.
- c) I/We undertake that, if any of the information submitted in accordance to this tender Enquiry found incorrect, our contract may be cancelled at any stage on our cost and risk.

CERTIFICATE

We guarantee to supply the stores exactly in accordance with the requirement specified in the invitation to this tender.



Signature of Tenderer -----

Name & Designation-----

Address:-----

**TECHNICAL SPECIFICATION OF 1500 kVA GENERATING SET (TWO UNITS)
FOR SURGICAL COMPLEX AT JINNAH POST GRADUATE MEDICAL CENTRE,
KARACHI, PAKISTAN**

Quotations are invited for a 1500 kVA Generators. The detailed specifications are as follows:

S. No.	Specifications / Requirements
1.	Product Specifications
1.1	General Genset Requirements
	<p>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.</p> <p>Prime Power Rating:</p> <ul style="list-style-type: none"> ▪ Average Power Output = 70% of prime power rating ▪ Load = Varying ▪ Typical Hours/Year = Unlimited ▪ 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
1.2	Material and Parts
	All materials and parts comprising the unit shall be new and unused.
1.3	Engine
	The engine shall be diesel fueled, four (4) cycle, water-cooled, while operating with nominal speed 1500 RPM.
1.4	Engine Governing
	<ul style="list-style-type: none"> ▪ The engine governor shall be electronic control 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. ▪ Steady state frequency regulation shall be +/- 5 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.
2.	Generator
2.1	Digital Voltage Regulator
	<ul style="list-style-type: none"> ▪ The digital voltage regulator shall be microprocessor based with fully programmable operating and protection characteristics. ▪ The regulator shall maintain generator output voltage within +/- 0.5% for any constant load between no load and full load. ▪ The regulator shall be capable of sensing true RMS in three phases of alternator



	<p>output voltage, or operating in single phase sensing mode.</p> <ul style="list-style-type: none"> ▪ 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. ▪ 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.
2.2	Motor Starting
	<ul style="list-style-type: none"> ▪ 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.
2.3	Alternator Data
	<ul style="list-style-type: none"> ▪ The alternator provided will be 1500 kVA prime duty with Internal Excitation. ▪ The insulation provided will be Class H, The alternator pitch must be 2/3. ▪ The Efficiency of generator shall be approximately nearer to 95%. ▪ Excitation type must be PMG (Permanent Magnet Generator)
2.4	Controls - Generator Set Mounted
	<p>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 to all engine and regulator controls via SAE J1939.</p> <ul style="list-style-type: none"> ▪ Environmental The generator set control shall be tested and certified to the following environmental conditions: <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> 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 7. Cool down timer 8. Speed adjust 9. Emergency stop push button 10. Voltage adjust 11. Voltage regulator V/Hz slope - adjustable



	14. Password protected system programming
2.5	Digital Monitoring Capability
	<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"> ▪ Engine <ol style="list-style-type: none"> 1. 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 ▪ Generator <ol style="list-style-type: none"> 1. Generator AC volts (Line to Line, Line to Neutral and Average) 2. Generator AC current (Avg and Per Phase) 3. Generator AC Frequency 4. Generator kW (Total and Per Phase) 5. Generator kVA (Total and Per Phase) 6. Generator kVAR (Total and Per Phase) 7. Power Factor (Avg and Per Phase) 8. Total kWh 9. Total kVARh 10. % kW 11. % kVA 12. % kVAR
2.6	Alarms and Shutdowns
	<ul style="list-style-type: none"> ▪ Engine Alarm/Shutdown <ol style="list-style-type: none"> 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 ▪ Generator Alarm/Shutdown <ol style="list-style-type: none"> 1. Generator phase sequence 2. Generator over voltage 3. Generator under voltage 4. Generator over frequency 5. Generator under frequency 6. Generator reverse power (real and reactive) 7. Generator overcurrent



	<ul style="list-style-type: none"> ▪ Voltage Regulator Alarm/Shutdown <ol style="list-style-type: none"> 1. Loss of excitation alarm/shutdown 2. Instantaneous over excitation alarm/shutdown 3. Time over excitation alarm/shutdown 4. Loss of sensing 5. Loss of PMG
2.7	<p>Inputs and Outputs</p> <ul style="list-style-type: none"> ▪ 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 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 2 A @ 30 V DC. ▪ Programmable Discrete Outputs The control shall include the ability to operate discrete outputs, integral to the controller, which are capable of sinking up to 300 mA.
2.8	<p>Maintenance</p> <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"> 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 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"> a) Day of week b) Time of day to start c) Duration of cycle
2.9	<p>Remote Communications</p> <ul style="list-style-type: none"> ▪ The control shall include Modbus RTU communications as standard via RS-485 half duplex with configurable baud rates from 2.4 k to 57.6 k.
3.	<p>Cooling System</p> <ul style="list-style-type: none"> ▪ 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 122° F (50° C) 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	<p>Fuel System</p> <ul style="list-style-type: none"> ▪ 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.



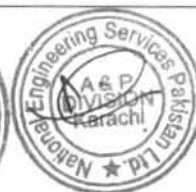
	<ul style="list-style-type: none"> Flexible fuel lines shall be minimally rated for 300 degrees F and 100 psi.
3.2	Exhaust System
	<p>Silencer</p> <ul style="list-style-type: none"> A residential grade silencer, companion flanges, and flexible stainless steel exhaust fitting properly sized shall be furnished and installed according to the manufacturer's recommendation. 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
	<ul style="list-style-type: none"> 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 - 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. 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 be mounted on the genset package or inside the genset enclosure/room.
4.	General
4.1	References and Standards
	<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"> CSA C22.2 No14 CSA 282 CSA 100 EN61000-6 EN55011 FCC Part 15 Subpart B ISO8528 ISO3046 IEC61000 UL508 UL2200 UL142 NEMA MG 1-22, 1-33 Designed to allow for installed compliance to NFPA 70, NFPA99 and NFPA 110
4.2	Work Included
	<ul style="list-style-type: none"> Fuel System The CONTRACTOR shall provide a fuel tank of diesel fuel for the completion of all testing.



	<ul style="list-style-type: none"> ▪ 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. 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.
4.3	Submittals
	<ul style="list-style-type: none"> ▪ Engine-generator submittals shall include the following information: <ol style="list-style-type: none"> 1. Factory published specification sheet. 2. 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 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 generator set at the specified site conditions with the specified loads. 11. OEM's written warranty.
4.4	System Responsibility
	<ul style="list-style-type: none"> ▪ Generator Set Dealer The completed engine generator set shall be supplied by the OEM's authorized dealer only.
4.5	Warranty
	<p>Prime (ISO 8528-1: PRP) Rated Generator Set Warranty</p> <ul style="list-style-type: none"> ▪ 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. ▪ Running hours shall not be a limiting factor for the system warranty by either the manufacturer or servicing Dealer. ▪ Submittals received without written warranties as specified will be rejected in their entirety.
4.6	Parts and Service Qualifications
	<ul style="list-style-type: none"> ▪ Service Facility 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.



	<ul style="list-style-type: none"> ▪ Service Personnel The dealer shall maintain qualified factory trained service personnel.
5	Execution
	<ul style="list-style-type: none"> ▪ 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: <ol style="list-style-type: none"> 1. Perform the load bank test at 1.0 PF 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. ▪ 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
	Site planning <ul style="list-style-type: none"> ▪ 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.
	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)
	Vendor must also enclose a soft copy on CD/USB in addition to hard copy for technical evaluation committee
	Only OEM Dealers in Pakistan or manufacturer are eligible to participate
	Pricing of optional configuration and post warranty terms should be quoted separately.
	Pricing of optional configuration with accessories and services should be quoted separately.
	Technical evaluation will be based on the standard configuration with accessories of the whole unit.
	Commercial evaluation will be based on the standard configuration with accessories of the whole unit.
	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.
	Quality Safety Standards:
	Country of Manufacture and origin should be USA/UK/Europe/Japan and equipment approval of their respective quality standards is mandatory.



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

EVALUATION CRITERIA DOCUMENT

(To be Filled and submitted as Technical Bid)



A handwritten signature in black ink, consisting of a stylized, cursive script.

INSTRUCTIONS TO APPLICANTS

1. Submission of Applications

- 1.1 The name and mailing address of the Applicant shall be clearly marked left hand on the envelope.
- 1.2 All the information must be given in English language. Information in any other language shall be accompanied by its translation in English. The Employer reserves the rights for rejection of qualification incase of non-compliance of the requirements.
- 1.3 The applicants must respond to all questions and provide complete information as advised in this document. Any lapse to provide essential information may result in disqualification of the applicant.

2 Qualification Criteria

2.1 General

Qualification will be based on all the criteria given in succeeding paras 2.2 to 2.5 regarding the applicant's general and particular experience, personnel and equipment capabilities, and financial position, as demonstrated by the applicant's responses in the forms attached to this document. The Employer reserves the right to waive minor deviations, if these don't materially affect the capability of an applicant to perform the contract. Sub-contractor's experience and resources shall not be taken into account in determining the applicant's compliance with the qualifying criteria. However, Joint Venture experience & resources shall be considered. Consortium or Association of firms will be considered for similar treatment as in case of Joint Venture.

The information submitted by applicants shall be used for determining their qualification based on criteria set out in para 2.4.

The Employer reserves the right to verify or seek clarification of the information furnished by the applicants. The Employer may reject any application for any misrepresentation knowingly made by any applicant in, or pursuant to, their application or for any statement furnished in connection therewith, and intended to be relied upon by the Employer, which is incorrect in any respect.

2.2 Preliminary Examination

All applications/documents submitted shall be checked for the following items:

1. Has the letter of application been signed?
2. Have all information asked for in Form A-1 to A-10 been provided?
3. Have all affidavits required under Form A-10 been provided and duly signed by the authorized person?
4. Have audited balance sheets from chartered accounting firm of last three years been provided?



5. In case of Joint Venture, has the JV agreement been provided and duly signed?

2.3 Initial Scrutiny

All the applicants shall be subjected to initial scrutiny using the following criteria:

1. Registration with Pakistan Engineering Council in Constructor's Category **C-3 or above** in specialization code CE10, EE04, EE05.
2. Document any evidence of Generator supplier, who should be authorized engine warranty provider and sole distributor of engine parts and services.

2.4 Detailed Evaluation

After the initial screening of all applicants, a detailed evaluation of the short-listed firms shall be undertaken using the following criteria based on the scoring system as follows:

Category	Points	
	Maximum	Minimum Acceptable
1. Financial	25	15
2. Experience	25	15
3. Personnel	20	12
4. Equipment Offered	20	12
5. Tools & Plant	10	06

To qualify, applicants must receive not less than the specified minimum acceptable points for each category and an aggregate 60 points of maximum 100 points as per following;

2.4.1 Financial

Financial Bidding Capability of an applicant will be taken as follows:

2.4.1.1 The Applicant should demonstrate that he has access to, or has available liquid assets, un-encumbered real assets, lines of credit and other financial means sufficient to meet the construction cash flow for the execution of works.

2.4.1.2 The audited balance sheets from chartered accounting firms for the last three years must be submitted and should demonstrate the soundness of the Applicant's financial position, showing long term profitability. Where necessary, the Employer will make inquiries with the Applicant's bankers.

2.4.1.3 Points shall be awarded under this category on the following criteria:



S. No.	Description	Max Points Assigned	Criteria for Points Obtained
a)	Available Bank Credit Line (Latest)	03	<ul style="list-style-type: none"> One (01) Point is given if the available bank credit line limit is equal to 15 Million. One (01) point is given for every Rs. 10 Million increase in the Credit Line. Full Points are given in case the limit is Rs. 35 Million or more.
b)	Average Working Capital in last 3 years	10	<ul style="list-style-type: none"> Three (03) Points are given if the average working capital for last three years is equal to Rs. 10 Million. One additional (01) point is given for every Rs. 3.6 Million increase in the working capital. Full Points are given in case of working capital for the last three years is Rs. 35 Million or more.
c)	Average Annual Turnover in last 3 years	10	<ul style="list-style-type: none"> Three (03) Points are given if the average annual turnover for last three years is equal to Rs. 100 Million. One (01) additional point is given for every Rs. 43 Million increase in the average annual turnover. Full Points are given in case of Average Annual Turnover for the last three years is Rs. 400 Million or more.
d)	Return for last 3 years	02	<ul style="list-style-type: none"> No points will be given if income tax return is not attached. Full points will be given in case of submission of all three years return.
Total Points Allocated			25

2.4.2 Experience Capability (Form A-3)

Information regarding similar/comparable projects **completed during last ten (10) years** shall be supported by documents such as Taking Over/Completion Certificate, Maintenance / Defects Liability Certificate and any other relevant document. Points shall be awarded under this category based on the following criteria:



Experience	Points
One project of cost Rs. 200 million or more.	15
Two projects each of cost equal to Rs. 200 million or more.	25
Maximum Point	25

2.4.3

Personnel (From A-4 & A-5)

Personnel will be evaluated on the basis of following points:

Key Personnel	Points (maximum)
1. Project Manager	15
2. Site Engineer	5

(Information regarding education qualification, total work experience and specific work experience is to be supported by documents such as copy of education certificate/degree and CVs of concerned personal propose for the above position duly signed and any other relevant documents).

Points for personnel will be given on the basis of the following criteria:

2.4.3.1 Project Manager (must be a HEC Recognized University Engineering Degree holder in Electrical Engineering)

Description	Points
Total work Experience (years)	
More than 20	9.0
+15-20	7.0
+10-15	5.0
Less than 10	3.0
Specific Experience (years)	
More than 10	6.0
+08-10	4.0
+05-08	2.0
Less than 05	1.0

2.4.3.2 Site Engineer

Description	Points
Total work Experience (years)	
More than 10	5.0
05-10	2.0
Less than 05	1.0



2.4.4 Equipment Offered (Form A-6)

The applicant should provide accurate information on the major equipment offered as per the specified requirement (Form A-6). The applicant must adhere to the required/specified data as listed in the Technical Data Sheets and Specifications being the minimum required to qualify the equipment being offered.

2.4.5 Equipment Capability (Form A-9)

The applicant shall own, or have assured access to (through rental, lease, purchase agreement or other means), the following key equipment (limited to only major items of equipment) in full working order and must demonstrate that, based on known commitments, these will be available for deployment on the proposed contract or works. (Form A-9) The applicant may also list alternative equipment which he would propose for the contract together with an explanation of the alternate proposal.

Equipment Type & Characteristics	Marks
Safety Helmets/Gloves/Body Harness/Spectacles/Shoes/Cones	1.0
Welding Plant (3, 2 & 1 Phase) Heavy Duty	1.0
Gas Cutting Sets	1.0
Arc Welding Units	1.0
Chain Block 1, 3, 5, 8 Tons	1.0
Safety Sign Instructions/Work Sign Instructions	0.5
Drill Machines (Heavy/Portable)	0.5
Power Grinder	0.5
Auto Cutter	0.5
Fabrication Tools	0.5
Machine Shop Tools	0.5
Ladder/Scaffolding	0.5
Volt Meter	0.5
Smoke Tester	0.5
Erection & Maintenance Tools	0.5
Maximum Points	10

2.5. Litigation History

The applicant should provide accurate information on any litigation or arbitration resulting from contracts completed or under execution over the last five years. A consistent history of award against the applicant or any partner of a joint venture may result in rejection of the application.



2.6

Joint Venture (JV)

2.6.1 Joint Venture must comply with the following requirements:-

- a) The joint venture must collectively satisfy the criteria give in paras 2.4.1 to 2.4.4 for which purpose the relevant figures for each of partners shall be added together to arrive at the JV's total capacity.
- b) Bid shall be signed by all members in the JV so as to legally bind all partners, jointly and severally, and any bid shall be submitted with a copy of the JV agreement providing the joint and several liability with respect to the contract.

2.6.2 The qualification of a JV does not necessarily prequalify any of its partners individually or as a partner in any other JV or association. In case of dissolution of a JV, each one of the constituent firms may qualify if they meet all the qualification requirements and any partner of J.V has requested/shall request for the same and then his qualification shall be subject to the written approval of the Employer.

2.7 Conflict of Interest

The applicant (including all members of a JV) must not be associated, nor have been associated in the past, with the consultant or any other entity that has prepared the design, specifications, and other qualification and bidding documents for the project, or was proposed as Engineer for the contract, over the last five years. Any such association may result in disqualification of the applicant.

2.8 Other Factors

2.8.1 A firm or a member of a JV may participate only in one bid for the contract. If a firm submits more than one bid, singly or as a JV, all bids including that bidder will be rejected. This rule will not apply in respect of bids which include specialist sub-contractors who are used by more than one bidder.

2.8.2 The Employer reserves the right to:-

- a) amend the scope and value of any contract(s) to be bid,
- b) Reject or accept any application without assigning any reason there of and it will not be challenged in any court of law; and
- c) Cancel the qualification process and reject all applications.

2.8.3 The Employer shall neither be liable for any such actions nor be under any obligation to inform the applicant of the grounds for rejection, however, may be debriefed if solicited.



Letter of Application

[Letterhead paper of the applicant, or partner responsible for a joint venture, including full postal address, telephone no., fax no., telex no., cable and e-mail address]

Date:.....

To: Jinnah Postgraduate Medical Centre, Karachi,
Rafiqi Shaheed Road,
Karachi-75510
Tel: 021-35211875-6

Sir,

1. Being duly authorized to represent and act on behalf of

(hereinafter "the Applicant"), and having reviewed and fully understood all the qualification information provided, the undersigned hereby apply to be qualified as a bidder for _____ (Project Name) _____

2. Attached to this letter are copies of original documents defining 1:

- (a) the applicant's legal status;
- (b) the principal place of business; and
- (c) the place of incorporation (for applicants who are corporations); or

the place of registration and the nationality of the owners (for applicants who are partnerships or individually-owned firms).

3. Your agency and its authorized representatives are hereby authorized to conduct any inquiries or investigations to verify the statements, documents, and information submitted

1

For applications by joint ventures, all the information requested in the Evaluation Criteria is to be provided for the joint venture, if it already exists, and for each party to the joint venture separately. The lead partner should be clearly identified. Each partner in the joint venture shall sign the letter.



in connection with this application, and to seek clarification from our bankers and clients regarding any financial and technical aspects. This letter of application will also serve as authorization to any individual or authorized representative of any institution referred to in the supporting information, to provide such information deemed necessary and requested by yourselves or the authorized representative to verify statements and information provided in this application, or with regard to the resources, experience, and competence of the applicant.

4. Your agency and its authorized representatives may contact the following persons for further information², if needed.

General and Managerial Inquiries	
Contact 1	Telephone 1
Contact 2	Telephone 2

Personnel Inquiries	
Contact 1	Telephone 1
Contact 2	Telephone 2

Technical Inquiries	
Contact 1	Telephone 1
Contact 2	Telephone 2

Financial Inquiries	
Contact 1	Telephone 1
Contact 2	Telephone 2

5. This application is made with the full understanding that:
- (a) bids by qualified applicants will be subject to verification of all information submitted for qualification at the time of bidding;
 - (b) your Agency reserves the right to:
 - (i) amend the scope and value of any contract under this project;
 - (ii) reject or accept any application, cancel the qualification process, and reject applications; and

2

Application by joint ventures should provide information on a separate sheet information for each party to the application.



- (c) your agency shall not be liable for any such actions and shall be under no obligation to inform the applicant of the grounds for actions at 5(b) hereabove.
- (d) your agency shall not be liable for consequence of, and shall be under no obligation to inform the applicant of the grounds for, actions taken under para 5(b) here above.

Applicants who are not joint ventures should delete para 6&7 and initial the deletions.

- 6. Appended to this application, we give details of the participation of each party, including capital contribution and profit/loss agreements, to the joint venture or association. We also specify the financial commitment in terms of the percentage of the value of the (each) contract, and the responsibilities for execution of the (each) contract.
- 7. We confirm that in the event that we bid, that bid as well as any resulting contract will be.
 - (a) Signed so as to legally bind all partners, jointly and severally; and
 - (b) submitted with a Joint Venture agreement providing the joint and several liability of all partners in the event the contract is awarded to us.
- 8. The undersigned declare that the statements made and the information provided in the duly completed application are complete, true, and correct in every detail.

Signed	Signed
Name	Name
For and on behalf of (name of Applicant or lead partner of a joint venture)	For and on behalf of (name and signature of other partners of the joint venture)



General Information

All individual firms and each partner of a joint venture applying for qualification are requested to complete the information in this form. Nationality information is also to be provided for foreign owners or applicants who are forming part of the Joint Ventures.

Where the applicant proposes to use named subcontractors for critical components of the works or for work contents in excess of 10 percent of the value of the whole works, the following information should also be supplied for the specialist subcontractor(s).

1.	Name of Firm	
2.	Head Office Address	
3.	Telephone	Contact Person: Name: Title:
4.	Fax	Telex
5.	Place of Incorporation/Registration	Year of incorporation/registration

NATIONALITY OF OWNERS		
	NAME	NATIONALITY
1.		
2.		
3.		
4.		
5.		



Joint Venture Summary

Names of all Partners of a Joint Venture	
1. Lead Partner	
2. Partner	
3. Partner	
4. Partner	
5. Partner	
6. Partner	

Total value of annual construction turnover, in terms of work billed to clients,

Annual Turnover Data (Construction only; Equivalent in Pak Rupees, Millions)			
Partner	2015	2014	2013
1. Lead Partner			
2. Partner			
3. Partner			
4. Partner			
5. Partner			
6. Partner			
Total:			



Details of Contracts of Similar Nature and Complexity

Name of applicant or partner of a joint venture

Use a separate sheet for each contract.

1.	Name of Contract
	Country
2.	Name of Employer
3.	Employer Address
4.	Nature of works and special features relevant to the contract for which the Applicant wishes to prequalify
5.	Contract Role (Tick One) (a) Sole Contractor (b) Sub-Contractor (c) Partner in a Joint Venture
6.	Value of the total contract (in specified currencies) at completion, or at date of award for current contract Currency..... Currency..... Currency.....
7.	Equivalent in Pak/Rs.
8.	Date of Award
9.	Date of Completion
10.	Contract Duration (Years and Months) _____ Years _____ Months
11.	Specified Requirements I

1

Insert any specific criteria required for particular operations, such as annual volume of earthmoving, underground excavation, or placing concrete etc.



Personnel Capabilities

<i>Name of applicant</i>

For specific positions essential to contract implementation, applicants should provide the names of at least two candidates qualified to meet the specified requirements stated for each position. The data on their experience should be supplied on separate sheets using one form for each candidate (application form A-5).

1.	Title of Position
	Name of Prime Candidate
	Name of Alternate Candidate
2.	Title of Position
	Name of Prime Candidate
	Name of Alternate Candidate
3.	Title of Position
	Name of Prime Candidate
	Name of Alternate Candidate
4.	Title of Position
	Name of Prime Candidate
	Name of Alternate Candidate



Candidate Summary

<i>Name of Applicant</i>

	Position	Candidate [Tick appropriate one] <input type="checkbox"/> Prime <input type="checkbox"/> Alternate
Candidate information	1. Name of Candidate	2. Date of Birth
	3. Professional Qualification	
Present employment	4. Name of Employer	
	5. Address of Employer	
	Telephone	Contact (manager/personnel officer)
	Fax	Telex
	Job title of candidate	Years with present employer

Summarize professional experience over the last 20 years, in reverse chronological order. Indicate particular technical and managerial experience relevant to the Project.

Month/ Dates/Years		Company / Project / Position / Relevant technical and management experience
From	To	



Financial Capability

Name of Applicant or Partner of a Joint Venture

Applicants, including each partner of a joint venture, should provide financial information to demonstrate that they meet the requirements stated in the instructions to applicants. Each applicant or partner of a joint venture must fill-in this form. If necessary, use separate sheets to provide complete banker information. A copy of the audited balance sheets should be attached.

Banker	Name of banker	
	Address of banker	
	Telephone	Contact name and title
	Fax	Telex

Summarize actual assets and liabilities in Pak Rupees (Equivalent at the current rate of exchange at the end of each year) for the previous three years, based upon known commitments, projected assets and liabilities in Pak Rupees equivalent for the next two years.

Financial information in Pak Rs. Or equivalent	Actual Previous Three year		
	June 30, 2015	June 30, 2014	June 30, 2013
1. Total assets			
2. Current assets			
3. Total liabilities			
4. Current liabilities			
5. Profits before taxes			
6. Profits after taxes			



Specific proposed sources of financing to meet the cash flow of the Project, net of current commitments (Instructions to Applicants, para 2.4.13).

Source of financing	Amount (Pak Rs. or equivalent)
1.	
2.	
3.	
4.	

Attach audited financial statements for the last three years (for individual applicant or each partner of joint venture).

Firms owned by individuals, and partnerships, may submit their balance sheets certified by a registered accountant, and supported by copies of tax returns, if audits are not required by the laws of their countries of origin in case of foreign firms.



Equipment Capabilities

Name of Applicant

The applicant shall provide adequate information to demonstrate clearly that he has the capability to meet the requirements for each and all items of equipment listed in the Instructions to applicants. A separate form shall be prepared for each item of equipment listed in para 2.4.5 of the Instructions to applicants.

Item of Equipment		
Equipment information	1. Name of manufacturer	2. Model and power rating
	3. Capacity	4. Year of manufacture
Current status	5. Current location	
	6. Details of current commitments	
Source	7. Indicate source of the equipment <input type="checkbox"/> Owned <input type="checkbox"/> Rented <input type="checkbox"/> Leased	

Omit the following information if it is owned by the Applicant or partner.

Owner	8. Name of owner	
	9. Address of owner	
	Telephone	Contact name and title
	Fax	Telex
Agreement	Details of rental/lease specific to the Project.	



Additional Information

Name of Applicant or partner of a joint venture

Additional Information

1. Certificate of Registration with Pakistan Engineering Council.
2. Certificate of registration with Income Tax Department in Pakistan and Income Tax Return for the last three years.
3. An affidavit to the effect that the Applicant has never been black-listed by the government /Semi government or any autonomous body.
4. An affidavit to the effect that all documents / particulars / information given with this qualification document are true. **Disqualification of Supplier and Contractors**, "The Procuring agency shall disqualify a supplier or contractor if it finds, at anytime, that the information submitted by him concerning his qualification as supplier or contractor was false and materially inaccurate or incomplete."
5. An affidavit to the effect that the Applicant has never indulged in corrupt, fraudulent or collusive practice for procuring contracts.
6. An affidavit to the effect that the firm is not presently involved nor has been in the past in litigation with the Employer. Should this be otherwise the Applicant must provide such details in form A-8 "Litigation History".
7. Any other pertinent information in support of this qualification should also be furnished.



SUPPLY & INSTALLATION OF 1500 kVA GENERATORS

EVALUATION SCORING CRITERIA BASED ON THE SCORING SYSTEM AS UNDER

Sr. No.	Name of the Firm along with Postal Address, Phone & Fax #	DIESEL GENERATING SETS					REMARKS	
		DG Set Make / Model	Coupling Country of Origin	Rating Offered	Maintenance Free Batteries	Dealership Authorization to ensure after sales service		4 Pole Alternator
			20	20	20	20	20	MINIMUM QUALIFYING MARKS ARE 60%
1								
2								
3								
4								
5								



PREAMBLE TO CONDITIONS OF CONTRACT

- Commencement Date** The date for commencement of the Works is the date, within (07) days from the date of receipt of Engineer's Notice to Commence which shall be issued within fourteen (07) days after signing of Contract Agreement.
- Defect Liability Period** The Defect Liability Period is 365 days.
- The Employer** The Employer is Jinnah Postgraduate Medical Centre, Karachi, Rafiqui Shaheed Road, Karachi-75510 Tel: 021-99201300.
- The Engineer** The Engineer is National Engineering Services Pakistan (Pvt) Limited, 4th Floor, NICL Building, Abbasi Shaheed Road, Karachi.
- Time for Completion** The Time for Completion for supply & installation of DG set and related works at site is 6 months from the Commencement Date.
- Warranty Period** 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.
Running hours shall not be a limiting factor for the system warranty by either the manufacturer or servicing Dealer.
Submittals received without written warranties as specified will be rejected in their entirety.
- Engineer's Duties & Authorities** Amount of Variation Order in emergency is $\pm 2\%$ of the Contract Price stated in the Letter of Acceptance.
- Confirmation in Writing** (i) If the Contractor shall require the confirmation it shall be notified to the Engineer within 07 days.
(ii) Engineer shall confirm the decision/instruction within 07 days.
- Ruling Language** The version in English language (ruling language) shall prevail.
- Day to Day Communications** The language for day to day communications is English.
- As-Built Drawings** As-Built drawings shall be provided to the Engineer within 15 days from the date of issue of Taking Over Certificate.
- General Obligations Programme to be Furnished** Detail of Erection and Testing Equipment and Maintenance Tools is given herein below: *None*
The Program must be submitted in the form *bar chart*.
- Electricity Water, Gas and Other Services** Supplies on the Site are:
a) Electricity: _____ Not Provided
b) Water: _____ Not Provided
c) Gas: _____ Not Provided



d. Other Services: _____ Not Provided

- Employer's Equipment** The following Employer's equipment is available for use by the Contractor under the Employer's operation: *None*
- Working Hours** The normal working hours are *as per local law*.
- Earlier Completion** (i) Amount of Bonus per day: *Not applicable*
(ii) Max. Amount of Bonus: *Not applicable*
- Payment in Foreign Currencies** Payment in foreign currencies shall be arranged as follows: *Not applicable, all payments shall be made in Pak Rupees.*
- Insurance of Works** The deductible limits in the insurance cover of the Works shall be responsibility of The Contractor.

The additional risks to be insured are: *None*
- Labour, Materials and Transport** The method of calculating adjustments for changes in cost shall be: *Not Applicable*
- Disputes & Arbitration** Venue of Arbitration Karachi, Sindh, Pakistan.
- Procedural Law for Arbitration** The procedural law for arbitration is Arbitration Act, 1940
- Language and Place of Arbitration** The language of arbitration is *English Language*.
The place of arbitration is *Karachi, Sindh, Pakistan*.



CONSTRUCTION OF NEW SURGICAL ONCOLOGY COMPLEX AT JPMC , KARACHI

CODE # 00: DIESEL GENERATOR WORKS

BILL OF QUANTITIES

Item No.	Description	Unit	Qty.	Unit Rate	Qty.
(1)	(2)	(3)	(4)	(5)	(6)
	<p><u>E. Electrical Works</u></p> <p>The Contractor shall read BoQ along with Specifications and Drawings. The Scope of Works includes but not limited to Supply, installation, testing and commissioning of the following items of work (unless specifically stated otherwise) including all material, labour, tool, plant, accessories, related civil works etc. required for proper completion of each item of works as per specifications. The contractor is bound to submit all relevant data, information, literature, drawings, submittals etc. as per specifications & recommended manufacturers list to The engineer for necessary approvals. To minimize unnecessary delays and conflicts The contractor shall also coordinate with other contractors working on this project. The contractor shall also bond to provide the services as and when required at no additional cost for interfacing of this electrical system with other electrical systems installed or to be installed in this Project. All relevant NOC/fitness certificates shall be obtained by the Contractor.</p>	-			



Diesel Generator Set

01-1E

1500 kVA DG set (prime rating) on roof top including sound proof canopy (70 db at one meters) (IP-65), skid mounted fuel tank (for 12 hours fuel backup) with electrical & mechanical connection to existing fuel supply system including level sensing devices & indicators, automatic control fuel start and stop with overflow mechanical and electrical protection, crank case & fume disposal ventilation system, control / instrument panel, lube oil make up tank system inside canopy, vibration isolators and rubber foundation pad, levelling & alignment, battery & associated rack system, power cable support mechanism, exhaust muffler with expander, elbow, flexible connections, thimble, canopy support, water drain thermal lagging and insulation, control wiring to GCP, LT switch boards, and ATS etc., testing of DG sets with load bank along with diesel fuel for complete successful operation, related civil works, all components and accessories, complete in all respect.

Job

2

01-2E

Generator Control Panel (GCP) (4 Pole, ACB type) with manual bypass, synchronization, load sharing & AMF panel for two number 1500 kVA DG sets including, control wiring inside and to DG set, LT switch board and ATS etc., all components and accessories, complete in all respect.
Note: 1. The design of Panels shall be as per LT room space available and in coordination with MPB design. 2) Phase and neutral busbars are of same size, while earthing busbar shall be half of size of phase busbars. 3.) The Panel shall be of Form 3b with busbar connection inside panels.



01-3E	<p>ATS panel (4 pole, ACB type) suitable for 1500 kVA DG set includes control wiring to DG set, GCP and LT switch board etc., all components and accessories, complete in all respect. Note: 1. The design of Panels shall be as per LT room space available and in coordination with MPB design. 2) Phase and neutral busbars are of same size, while earthing busbar shall be half of size of phase busbars. 3.) The Panel shall be of Form 3b with busbar connection inside panels.</p>	Job	2		
01-4E	<p>Spare parts for 1500 kVA diesel generator sets as per specification requirements includes but not limited to air filter, oil filter, fuel filter, driving belts, set of diodes for excitation system or any other spare part as per manufacturer's recommendation.</p>	Job.	2		
01-5E	<p><u>LT Cables</u></p> <p>Following sizes, 600/1000 V, single core or multi core, copper conductor, PVC insulated, armoured / unarmoured, PVC sheathed cable pulled in already installed surface mounted conduits or concealed conduits or cable tray or concrete ducts or underground in already excavated trenches or in already laid PVC pipes including tags, ties, lugs, termination kits, colour sleeves, cable glands, bushes etc., all related accessories, complete in all respect.</p> <p>a) 1 core, 400 mm², Cu/PVC/PVC</p>	Rft.	5,760		



Earthing

1-6E

Following sizes of single core PVC insulated copper conductor cable as earth continuity conductor (ECC) installed on surface or on already installed pipes / conduits / trenches / cable tray etc., including tags, ties, lugs, termination kits, colour sleeves, cable glands, bushes etc., all related accessories, complete in all respect.

a) 70 mm²

Rft. 300

1-7E

300 mm (L) x 50 mm (H) x 6 mm (T) tinned copper earth connecting point, including all accessories, complete in all respect.

no. 2

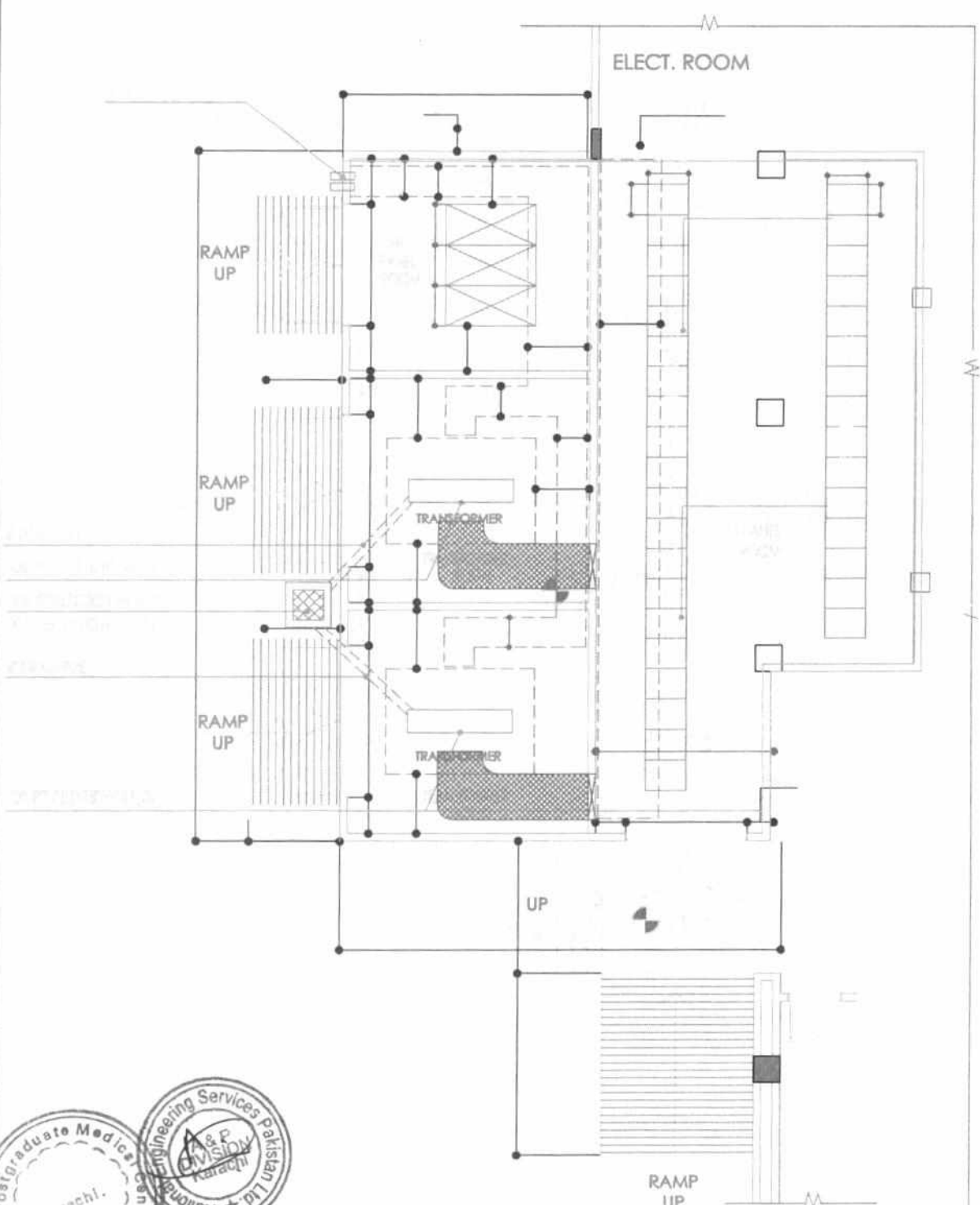
1-8E

300 mm (L) x 50 mm (H) x 6 mm (T) tinned copper earth connecting point, including wall mounted powder coated water proof 16 SWG M.S enclosure all accessories, complete in all respect.

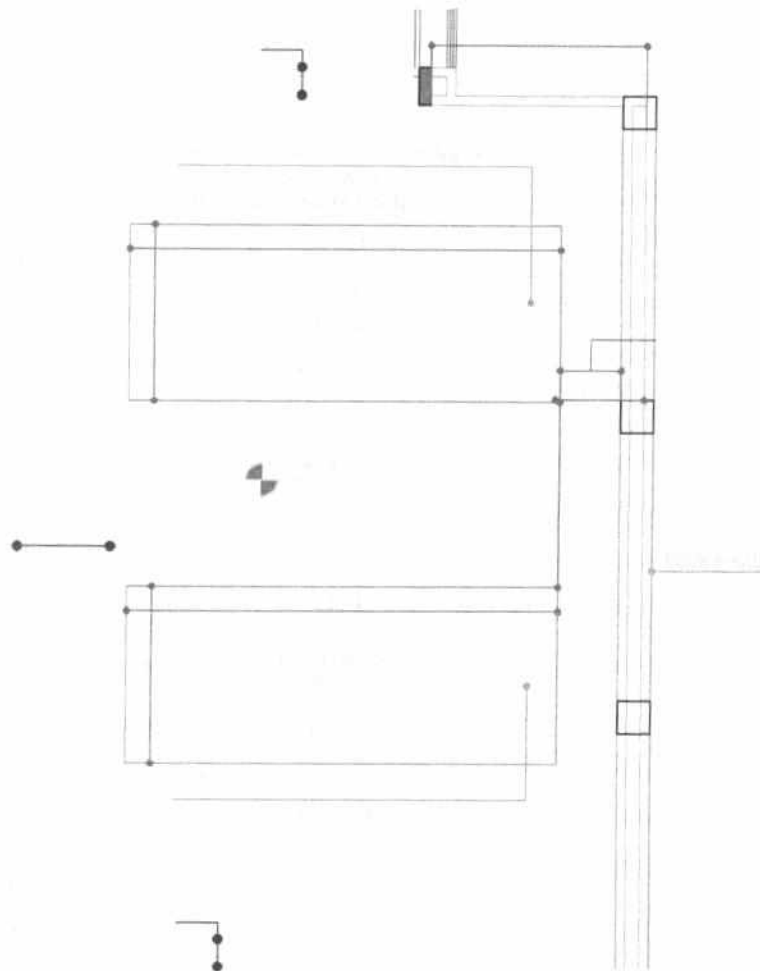
no. 2

Total Cost





**SUBSTATION
GROUND FLOOR PLAN
FOR COORDINATION WITH AMF/ATS PANEL**



**SUBSTATION
ROOF PLAN
FOR GENERATOR INSTALLATION**

NOTE:

1. THE CANOPY FOR DIESEL GENERATOR SHALL BE MANUFACTURED AS PER SITE CONDITION AND SPACE AVAILABLE.
2. THE RUBBER PAD TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AS APPROVED BY STRUCTURAL ENGINEER.



GOVERNMENT OF SINDH
JINNAH POSTGRADUATE MEDICAL CENTRE
KARACHI



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.



Due on: 18-05-2017

GOVERNMENT OF SINDH
JINNAH POSTGRADUATE MEDICAL CENTRE
KARACHI-75510

TENDER DOCUMENT

TENDER NO.F.1-349/2016-17-(P&D)/JPMC

TENDER FOR SUPPLY AND INSTALLATION OF 1500 kVA TRANSFORMERS (TWO UNITS)
FOR SURGICAL COMPLEX AT JINNAH POSTGRADUATE MEDICAL CENTRE,
KARACHI-75510

FOR THE YEAR 2016-17

DUE ON 18-05-2017

COST OF TENDER	Rs. 2000/= (Rupees five Thousand Only) non refundable
TENDER SELLING DATE	From 01-05-2017 To 17-05-2017
TENDER SUBMISSION PLACE	HALL-B, NAJAMUDDIN AUDITORIUM, JPMC, KARACHI
TENDER SUBMISSION DATE	18-05-2017
TENDER SUBMISSION TIME	09:00 AM to 10.30 AM
TENDER OPENING PLACE	HALL-B, NAJAMUDDIN AUDITORIUM, JPMC, KARACHI
TENDER OPENING DATE	18-05-2017
TENDER OPENING TIME	11:00 AM

*Note : No tender will be accepted after closing the Tender box,
What so ever reason may be.*



NO.F.1-349/2016-17-(P&D)/JPMC
GOVERNMENT OF SINDH
JINNAH POSTGRADUATE MEDICAL CENTRE
KARACHI-75510

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

TERMS AND CONDITIONS / INSTRUCTIONS TO BIDDERS

- 1) Single Stage - Two Envelopes procedure as per SINDH PPRA-2010 Rule 46(2) will be followed (single stage two envelopes procedure) i.e. **TECHNICAL** and **FINANCIAL PROPOSAL** will be placed in separate sealed envelopes and marked accordingly These two envelop should be placed in one envelop addressed to the Executive Director, JPMC, Karachi with Tender number and inserted in the tender box on scheduled date and time.
- 2) The Bidder shall prepare bid containing "**FINANCIAL PROPOSAL**" and "**TECHNICAL PROPOSAL**" in bold and legible letter to avoid confusion. The financial and technical bids, each consisting of the documents listed above.

In Technical Proposal the bidder must provide the original Data sheet and Technical brochure, Income Tax, Sales Tax, Sole Agency certificate and other documents; otherwise the bid will not be accepted.

In Financial Proposal, the bidder should provide bid security / earnest money at the rate of 2.5% of the quoted value. Financial Proposal should contain quoted rate and original bid security. A copy with erased value of amount to be placed in technical proposal depicting the proof of submission bid security.
- 3) The purchaser will initially open only the envelopes marked "**Technical Proposal**" in the presence of Bidders or their representatives who chose to be present at the time of bid opening date, time and place specified in the tender documents. The Bidder or their representative who are present shall sign the attendance sheet. The envelope marked "**Financial Proposal**" shall be retained in the custody of purchaser without being opened till the completion of the Technical Evaluation.
- 4) Bids shall remain valid for 90 days from the date of opening. A bid valid for a shorter period shall be rejected as being non-responsive.
- 5) The bidders shall quote their prices inclusive of all duties /taxes/Octroi transportation etc, and all other expenses on free delivery to Consignee's end in local currency.
- 6) Price should be quoted in clear manner including of Figures & words both, failing which the offer will be ignored.
- 7) The bid prepared by the Bidder shall comprise the following documents:
 - (a) Bid Form & Price Schedules duly completed by the Bidder.
 - (b) The Bidder shall furnish a bid security @ 2.5% of the quoted value in the form of Pay Order / Bank Draft in the financial proposal.
 - (c) The original catalogue must accompany with offer.



- (d) Sole Agency / Authorized Dealer Certificate from the OEM must be provided by the bidder.
 - (e) The service manual with circuit diagram will be provided (for equipment)
 - (f) A certificate from the manufacturer that the offered machine / equipment being used in the country of origin.
 - (g) A detail data sheet having description of the essential technical and performance characteristics of the offered equipment.
 - (h) The original tender purchase receipt.
 - (i) Bidders shall purchase separate tender document and furnish purchase receipts for alternate offer, in case they want to submit alternate offer. Any item's bid with alternate offers without separate purchase receipt (Original) is supposed to be rejected.
 - (j) The bidder shall furnish copy of valid Professional Tax (Excise & Taxation) Certificate/Income Tax Certificate/GST Registration Certificate.
 - (k) Bidder shall submit guarantee letter that the supplied Machinery / Equipment is the original / brand new product / latest model, none of the part is replaced, old or refurbished.
 - (l) Bidder must enclose a list of users in Sindh / Pakistan of the quoted items. Bidder must submit the proof for the availability of workshop & trained engineers qualified persons for the machines at Sindh for after sale service.
 - (m) Bidder must enclose sealed Bank letter of financial capacity of firm addressed to the Executive Director JPMC, Karachi in financial proposal.
- 8) The prices quoted by the Bidder shall be fixed during the performance of the contract and not subject to variation on any account. A bid submitted with an adjustable price or conditional will be treated as non-responsive and rejected.
 - 9) Initially the bid evaluation will be performed after that Technical Specification will be evaluated by Technical Committee on the basis of the data sheet and the literature provided / submitted by the firm. Financial bids of technical qualified firms will be opened.
 - 10) All pages of the bid shall be signed & duly stamped by the person or persons signing the bid accept for un-amended printed literature and duly stamped.
 - 11) The bid shall contain no alterations, omissions, or additions, unless such corrections are initialed by the person or persons signing the bid.
 - 12) Bids shall be submitted either by the manufacturer or its sole agent, if submitted by the manufacturer itself then bid of authorized sole agent will be rejected. No sublet will be allowed.
 - 13) Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price, which is obtained by multiplying the unit price and quantity, or between subtotals and the total price, the unit or subtotal price shall prevail, and the total price shall be corrected. If there is a discrepancy between words and figures, the amount in words will prevail. If the Bidder does not accept the correction of errors, its bid will be rejected.



- 14) All the (applicable) Government taxes (Income Tax / Stamp Duty) of the value of the contract amount will be deducted from the bills of the Contractors / Suppliers.
- 15) The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of contract under the relevant provisions of SPP Rules 2010 (Amended 2017), without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for the Purchaser's action.
- 16) Prior to the expiration of the period of bid validity, the Purchaser will notify the successful Bidder through Advance acceptance. This will constitute the formation of the contract. Within seven (07) days after receipt of the Advance acceptance, the successful Bidder shall furnish the performance security @ 10% of the contracted amount in the form of Pay Order / Bank Draft / Bank Guarantee and will sign the contract agreement.
- 17) Bid validity can be extended as per SPP Rule 2010 (Amended 2017).
- 18) Sole / Authorized Dealer or Agent once nominated by the manufacturer will be for the whole contract period and manufacturer cannot change during the year in any case. In exceptional cases the tendering authority may approve changes.
- 19) The supplier should submit the bill/Invoice for payment addressed to the Executive Director, JPMC, Karachi after delivery of equipment along with following documents:
 - i. Three copies of Bill/Invoice
 - ii. Three copies of Purchase Order
 - iii. Three copies of delivery Challan.
 - iv. Undertaking on stamp paper

The payment scheduling shall be done in accordance to the procurement cycle as notified on SPPRA official web site.



General & Special Conditions of Contract

- 1) The Contract shall be governed by and interpreted in accordance with laws of the Islamic Republic of Pakistan.
- 2) Store is required within delivery period. The bidder may however give their short guaranteed delivery period by which the supply will be completed but not later than 120 days from date of purchase order. No Extension will be granted / accorded for the supply.
- 3) The manufacturer should provide an undertaking that if his sole agent fails to carry out any assignment in total or in part, manufacturer will be responsible to carry out the same.
- 4) The Contract Price shall be made to the Contractor as specified in the Contract Agreement, subject to the general principle / procedure of the Government of Sindh.
- 5) The Contract shall be executed in accordance with the Contract Documents and procedures.
- 6) The Purchaser or its representative shall inspect the Machinery / Equipment to confirm their conformity to the Contract specification. The inspection will be conducted at the premises of consignee after receipt of supply.
- 7) If the Contractor fails to attain Completion of the supply or installation within the Time for Completion shall pay to the Purchaser liquidated damages at the rate of 2% per month (0.5% per week) of the Contract Price, or the relevant part thereof. The aggregate amount of such liquidated damages shall in no event exceed the amount of 10%. Once the "Maximum" is reached, the Purchaser may consider termination of the Contract.
- 8) The Contractor warrants that the supplied equipment or any part thereof shall be free from defects in the design, engineering, materials etc. In case of defect in any part at the time of supply of installation it shall be replaced with new one instead of repair.
- 9) The purchaser, without prejudice to any other remedy for breach of contract by written notice of default sent to the supplier, may terminate this contract in whole or in part:
 - (a) If the supplier fails to deliver any or all of the contracted items within the period(s) specified in the Contract, or within any extension thereof granted by the Purchaser.
 - (b) If the Supplier fails to perform any other obligation(s) under the Contract.
 - (c) If the supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.
- 10) Service charges @ current prevailing charges of the value of the Contract will realized/charged by the A.G. Sindh, while making payment to the contractors for award of each contract.



Criteria for Evaluation of Bids

In Addition to the evaluation criteria document the following must be ensured:

- 1 Earnest money submission (Original attach with financial proposal and copy attach with technical proposal).
- 2 Compliance of terms and conditions, required documents / information as described in the Instructions of bidders, General and special conditions of the bid document. Bidder must qualify the bid evaluation. Only qualified bid evaluation bidders will be evaluated technically.
- 3 Relevant Experience and past performance of manufacturer / sole Dealer in terms of supply & after sale service.
- 4 After sale service facility with availability of work shop, Technical staff, Tools and spare parts.
- 5 Authority letter from manufacturer with validity period not less than five years.
- 6 Submission of original Catalogue with complete mailing address of the company, telephone / Fax Nos. and Web site for each quoted item.
- 7 Technical evaluations as per tender specification.
- 8 Operational cost of equipment.
- 9 Delivery schedule.
- 10 Evaluation of quoted price (After opening financial proposal).

UNDERTAKING

- a) That I/we agree whether our tender accepted for total, partial or enhanced quantity for all or any single item. I/We also agreed to supply and accept the said item at the rates for the supply of contracted quantity within the stipulated period shown in the contract.
- b) I/We understand and confirm the refund of cost difference if the same goods is/was supplied at lower rates to any other Govt. /Semi Govt. institution in the province in the same fiscal year.
- c) I/We undertake that, if any of the information submitted in accordance to this tender Enquiry found incorrect, our contract may be cancelled at any stage on our cost and risk.

CERTIFICATE

We guarantee to supply the stores exactly in accordance with the requirement specified in the invitation to this tender.



Signature of Tenderer -----

Name & Designation-----

Address:-----

**TECHNICAL SPECIFICATION OF 1500 kVA TRANSFORMER SET (TWO UNITS)
FOR SURGICAL COMPLEX AT JINNAH POST GRADUATE MEDICAL CENTRE,
KARACHI, PAKISTAN**

Quotations are invited for a 1500 kVA Transformer. The detailed specifications are as follows:

1.0 SCOPE

The work under this section consists of supplying, installing, testing, connecting and commissioning of all materials and services of two complete Indoor Power Transformers as specified herein, or as given in the Tender Drawings.

The Contractor shall discuss the electrical layout with the Engineer and co-ordinate at site with other services for exact location and position of the equipment.

The Indoor Power Transformer with accessories shall also comply with the General Specifications for Electrical Works, Section-8001 and with other relevant provisions of the Tender Documents.

2.0 GENERAL

The capacity of transformers to be provided are shown on the drawings and mentioned in Bill of Quantities. The transformers shall be complete, with all accessories and attachments as detailed in these specifications or otherwise required for satisfactory service.

All pertinent details, drawings, data, etc. shall be provided to the Engineer for approval prior to manufacturing.

Transformer built to these specifications and the standards given in this section or other relevant standards approved by the Engineer will be acceptable.

3.0 APPLICABLE STANDARDS/CODES

The following standards and codes shall be applicable for all materials in scope of this section:-

IEC 60076-1	-	Power Transformers – Part 1: General
IEC 60076-2	-	Power Transformers – Part 2: Temperature rise
IEC 60076-3	-	Power Transformers – Part 3: Insulations levels and dielectric tests
IEC 60076-3-1-	-	Power Transformers external clearances in air
IEC 60076-5	-	Power Transformers – Part 5: Ability to withstand short circuit
IEC 60296	-	Specification for unused mineral insulating oils for Transformers and switchgear

4.0 MATERIAL

4.1 Power Transformer Construction

The transformer tank shall be constructed of welded boilerplates and provided with external radiating tubes. The tank and radiating tubes shall be designed to withstand,



without developing any deformation, pressure at least 25% greater than the maximum operating pressure. The steel cover plate shall be bolted to the tank-using gasket for perfect oil seal. Inspection hole with cover shall be provided on top of the tank. Two earth terminals shall be provided diagonally at the base of the transformer tank. The transformer shall be anti-corrosive painted and finished in grey colour.

The oil preservation system shall have a conservator tank fitted with silica gel breather and oil level indicator.

The transformer core shall be built of non-aging, cold rolled, electrical silicon steel lamination and each lamination insulated to reduce eddy current losses. The core laminations shall be clamped and bolted effectively to reduce humming.

The winding coils shall be of high-grade electrolytic copper conductor, flat or round, paper insulated, thoroughly dried and impregnated as required.

The high tension (H.T) lead on indoor transformer shall be brought out to glazed porcelain insulator bushings for external connections to cables. Protective arcing horn spark gaps shall be provided on H.T bushings to protect the transformer from surge voltages.

The three L.T and neutral phase leads shall be brought out and terminated at glazed porcelain insulator bushings for connection to L.T side by copper bus-duct or cables. The LT bushings must be capable of making proper terminations/connections of 08 numbers power cables per phase.

Off-load tap changer shall be provided on H.T side at suitable location preferably on the side of transformer tank. A clear marking, illustrated by diagram, shall be provided to indicate the tap positions.

Double float Buchholz relay shall be provided on the transformer. It shall have required number of contacts for connection to tripping and alarm circuits.

4.2 Principal Data of Power Transformer

The transformers shall be fully tropicalized, three phase, step down, oil filled, self cooled, core type, double wound, suitable for parallel operation, and for indoor installation.

The transformer shall meet the following specifications:

- | | | |
|---|---|--|
| - Capacity (Rated continuous Output at full load) | : | 1500 kVA at Ambient temperature of 50° C |
| - Voltage ratio at no-load | : | 11000/415 Volts |
| - Frequency | : | 50 Hz |
| - Vector group | : | Dyn 11 |
| - Off load tapping arrangement: on H.T side | : | ±2.5%, ±5%, -7.5% |
| - H.T connection | : | 11 kV Delta |
| - L.T connection | : | 415 V with grounded star point. |



- Neutral on L.T side	:	Brought out & solidly earthed
- Temperature rise of oil over ambient temperature	:	40 ⁰ C maximum
- Temperature rise of winding over ambient temperature	:	50 ⁰ C maximum
- Impedance voltage	:	4% to 6%
- Voltage regulation for rated operating condition at 85% power factor	:	Not to exceed 2.5% of no-load secondary voltage
- Rated maximum voltage HT/LT	:	15kV / 0.6 kV
- Rated short-time current	:	Equal to the rating of Associated H.T. Switchboard.
- Rated Basic Impulse Level (BIL)	:	95 kV
- Cooling	:	mineral oil immersed natural cooled type (ONAN)

The design data to be furnished by the Contractor for approval of the Engineer shall include, but not limited to the following:

- Iron losses.
- Copper losses.
- Rated short-time current.
- Switching in-rush current.
- Efficiencies at different loads.
- Voltage regulation.
- Type and quantity of oil for complete filling of transformer.
- Transformer weight.

4.3 Accessories

In addition to the standard accessories of the power transformer as offered by the manufacturer, the transformer shall also be provided with following accessories: -

- Oil drain plug.
- Bi-directional rollers.
- Lifting lugs.
- Dial type thermometer with maximum temperature indicator and two adjustable normally open contacts for temperature alarm and tripping.
- Stainless steel diagram and rating plate according to IEC-60076-1.
- Pressure release safety valve.



4.4 Recommended Transformers Manufacturers

The recommended transformer manufacturers are Siemens (VALIDUS), Climax, PEL and Transpower. The transformers must be of approved type from utility companies in Pakistan.

4.5 Transformer Spare Parts

The minimum spares but not limited to the following shall be provided for each Transformer:

- 4.5.1 Silica Gel in Sealed pack
- 4.5.2 Fial type thermometer
- 4.5.3 Pressure release safety valve
- 4.5.4 Additional spares, if any recommended by manufacturer

5.0 INSTALLATION

Transformer shall be installed in transformer room as shown on drawings (Please refer attached Annexure-A). All civil works, including provision of cable trench, transformer oil pit, openings in wall, steel channel, etc., shall be carried out under civil works. The Contractor shall be responsible for general checking and co-ordination with civil works to ensure compliance with the requirements of transformer manufacturer for installation of equipment. For installation, connecting, testing and commissioning of transformers, the Contractor shall provide all required labour, materials, tools and testing equipment.

The transformer installation shall be carried out in accordance with specifications and the best-accepted practice. Any loose components supplied by manufacturer shall be assembled, installed and connected in place as to form a complete assembly as per manufacturer instructions. After the transformer is placed in position and aligned for H.T & L.T termination, the roller wheels shall be locked with the foundation steel channel to avoid any unintentional movement of the wheels.

The H.T cable shall terminate at the flange terminals on the H.T side. The supporting channels, fixing material, etc., required for H.T cable shall be furnished by the Contractor, details of which shall be approved by the Engineer prior to installation. The cable end box/termination kit will be supplied with the cable.

After the transformer is installed and connected, a thorough check shall again be made for the proper fixing of accessories, neutral connections, oil level, etc. The transformer shall be tested before energizing as per instructions contained in Specs Section – 8001, Clause 14.0, "Testing".

6.0 MEASUREMENT AND PAYMENT

6.1 General

The Contractor's bid amount against each Bill of Quantities item as given below shall include supply, installation, testing, commissioning and completion for all work specified herein and/or as shown on the Tender Drawings related to the item.

6.2 Indoor Power Transformer



6.2.1 Measurement

Measurement shall be made for each size of Indoor Power Transformer as given in BOQ acceptably supplied and installed by the Contractor, as a complete Job.

6.2.2 Payment

Payment shall be made for the number of Job measured as provided above at the Contract unit price each and shall constitute full compensation for supplying, installing, connecting, testing, commissioning and completion of the Power Transformer with all accessories including control wiring to the H.T / L.T switchboard.

6.3 Spare Parts

6.3.1 Measurement

Measurement shall be made for the spare parts of Indoor Power Transformer, acceptably supplied by the Contractor as a complete lot.

6.3.2 Payment

Payment shall be made for the complete job of spare parts as provided above, at the Contract Unit Price each and shall constitute full compensations for supplying, tagging, and packing of spare parts including wooden / steel storage boxes.



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

EVALUATION CRITERIA DOCUMENT

(To be Filled and submitted as Technical Bid)



INSTRUCTIONS TO APPLICANTS

1. Submission of Applications

- 1.1 The name and mailing address of the Applicant shall be clearly marked left hand on the envelope.
- 1.2 All the information must be given in English language. Information in any other language shall be accompanied by its translation in English. The Employer reserves the rights for rejection of qualification incase of non-compliance of the requirements.
- 1.3 The applicants must respond to all questions and provide complete information as advised in this document. Any lapse to provide essential information may result in disqualification of the applicant.

2 Qualification Criteria

2.1 General

Qualification will be based on all the criteria given in succeeding paras 2.2 to 2.5 regarding the applicant's general and particular experience, personnel and equipment capabilities, and financial position, as demonstrated by the applicant's responses in the forms attached to this document. The Employer reserves the right to waive minor deviations, if these don't materially affect the capability of an applicant to perform the contract. Sub-contractor's experience and resources shall not be taken into account in determining the applicant's compliance with the qualifying criteria. However, Joint Venture experience & resources shall be considered. Consortium or Association of firms will be considered for similar treatment as in case of Joint Venture.

The information submitted by applicants shall be used for determining their qualification based on criteria set out in para 2.4.

The Employer reserves the right to verify or seek clarification of the information furnished by the applicants. The Employer may reject any application for any misrepresentation knowingly made by any applicant in, or pursuant to, their application or for any statement furnished in connection therewith, and intended to be relied upon by the Employer, which is incorrect in any respect.

2.2 Preliminary Examination

All applications/documents submitted shall be checked for the following items:

1. Has the letter of application been signed?
2. Have all information asked for in Form A-1 to A-10 been provided?
3. Have all affidavits required under Form A-10 been provided and duly signed by the authorized person?
4. Have audited balance sheets from chartered accounting firm of last three years been provided?



5. In case of Joint Venture, has the JV agreement been provided and duly signed?

2.3 Initial Scrutiny

All the applicants shall be subjected to initial scrutiny using the following criteria:

1. Registration with Pakistan Engineering Council in Constructor's Category **C-3 or above** in specialization code CE10, EE04, EE05.
2. Document any evidence of Transformer supplier, who should be authorized engine warranty provider and sole distributor of engine parts and services.

2.4 Detailed Evaluation

After the initial screening of all applicants, a detailed evaluation of the short-listed firms shall be undertaken using the following criteria based on the scoring system as follows:

Category	Points	
	Maximum	Minimum Acceptable
1. Financial	25	15
2. Experience	25	15
3. Personnel	20	12
4. Equipment Offered	20	12
5. Tools & Plant	10	06

To qualify, applicants must receive not less than the specified minimum acceptable points for each category and an aggregate 60 points of maximum 100 points as per following;

2.4.1 Financial

Financial Bidding Capability of an applicant will be taken as follows:

2.4.1.1 The Applicant should demonstrate that he has access to, or has available liquid assets, un-encumbered real assets, lines of credit and other financial means sufficient to meet the construction cash flow for the execution of works.

2.4.1.2 The audited balance sheets from chartered accounting firms for the last three years must be submitted and should demonstrate the soundness of the Applicant's financial position, showing long term profitability. Where necessary, the Employer will make inquiries with the Applicant's bankers.

2.4.1.3 Points shall be awarded under this category on the following criteria:



S. No.	Description	Max Points Assigned	Criteria for Points Obtained
a)	Available Bank Credit Line (Latest)	03	<ul style="list-style-type: none"> One (01) Point is given if the available bank credit line limit is equal to 15 Million. One (01) point is given for every Rs. 10 Million increase in the Credit Line. Full Points are given in case the limit is Rs. 35 Million or more.
b)	Average Working Capital in last 3 years	10	<ul style="list-style-type: none"> Three (03) Points are given if the average working capital for last three years is equal to Rs. 10 Million. One additional (01) point is given for every Rs. 3.6 Million increase in the working capital. Full Points are given in case of working capital for the last three years is Rs. 35 Million or more.
c)	Average Annual Turnover in last 3 years	10	<ul style="list-style-type: none"> Three (03) Points are given if the average annual turnover for last three years is equal to Rs. 100 Million. One (01) additional point is given for every Rs. 43 Million increase in the average annual turnover. Full Points are given in case of Average Annual Turnover for the last three years is Rs. 400 Million or more.
d)	Return for last 3 years	02	<ul style="list-style-type: none"> No points will be given if income tax return is not attached. Full points will be given in case of submission of all three years return.
Total Points Allocated			25

2.4.2 Experience Capability (Form A-3)

Information regarding similar/comparable projects **completed during last ten (10) years** shall be supported by documents such as Taking Over/Completion Certificate, Maintenance / Defects Liability Certificate and any other relevant document. Points shall be awarded under this category based on the following criteria:



Experience	Points
One project of cost Rs. 200 million or more.	15
Two projects each of cost equal to Rs. 200 million or more.	25
Maximum Point	25

2.4.3

Personnel (From A-4 & A-5)

Personnel will be evaluated on the basis of following points:

Key Personnel	Points (maximum)
1. Project Manager	15
2. Site Engineer	5

(Information regarding education qualification, total work experience and specific work experience is to be supported by documents such as copy of education certificate/degree and CVs of concerned personal propose for the above position duly signed and any other relevant documents).

Points for personnel will be given on the basis of the following criteria:

2.4.3.1 Project Manager (must be a HEC Recognized University Engineering Degree holder in Electrical Engineering)

Description	Points
Total work Experience (years)	
More than 20	9.0
+15-20	7.0
+10-15	5.0
Less than 10	3.0
Specific Experience (years)	
More than 10	6.0
+08-10	4.0
+05-08	2.0
Less than 05	1.0

2.4.3.2 Site Engineer

Description	Points
Total work Experience (years)	
More than 10	5.0
05-10	2.0
Less than 05	1.0



2.4.4 Equipment Offered (Form A-6)

The applicant should provide accurate information on the major equipment offered as per the specified requirement (Form A-6). The applicant must adhere to the required/specified data as listed in the Technical Data Sheets and Specifications being the minimum required to qualify the equipment being offered.

2.4.5 Equipment Capability (Form A-9)

The applicant shall own, or have assured access to (through rental, lease, purchase agreement or other means), the following key equipment (limited to only major items of equipment) in full working order and must demonstrate that, based on known commitments, these will be available for deployment on the proposed contract or works. (Form A-9) The applicant may also list alternative equipment which he would propose for the contract together with an explanation of the alternate proposal.

Equipment Type & Characteristics	Marks
Safety Helmets/Gloves/Body Harness/Spectacles/Shoes/Cones	1.0
Welding Plant (3, 2 & 1 Phase) Heavy Duty	1.0
Gas Cutting Sets	1.0
Arc Welding Units	1.0
Chain Block 1, 3, 5, 8 Tons	1.0
Safety Sign Instructions/Work Sign Instructions	0.5
Drill Machines (Heavy/Portable)	0.5
Power Grinder	0.5
Auto Cutter	0.5
Fabrication Tools	0.5
Machine Shop Tools	0.5
Ladder/Scaffolding	0.5
Volt Meter	0.5
Smoke Tester	0.5
Erection & Maintenance Tools	0.5
Maximum Points	10

2.5. Litigation History

The applicant should provide accurate information on any litigation or arbitration resulting from contracts completed or under execution over the last five years. A consistent history of award against the applicant or any partner of a joint venture may result in rejection of the application.



2.6

Joint Venture (JV)

2.6.1 Joint Venture must comply with the following requirements:-

- a) The joint venture must collectively satisfy the criteria give in paras 2.4.1 to 2.4.4 for which purpose the relevant figures for each of partners shall be added together to arrive at the JV's total capacity.
- b) Bid shall be signed by all members in the JV so as to legally bind all partners, jointly and severally, and any bid shall be submitted with a copy of the JV agreement providing the joint and several liability with respect to the contract.

2.6.2 The qualification of a JV does not necessarily prequalify any of its partners individually or as a partner in any other JV or association. In case of dissolution of a JV, each one of the constituent firms may qualify if they meet all the qualification requirements and any partner of J.V has requested/shall request for the same and then his qualification shall be subject to the written approval of the Employer.

2.7

Conflict of Interest

The applicant (including all members of a JV) must not be associated, nor have been associated in the past, with the consultant or any other entity that has prepared the design, specifications, and other qualification and bidding documents for the project, or was proposed as Engineer for the contract, over the last five years. Any such association may result in disqualification of the applicant.

2.8

Other Factors

2.8.1 A firm or a member of a JV may participate only in one bid for the contract. If a firm submits more than one bid, singly or as a JV, all bids including that bidder will be rejected. This rule will not apply in respect of bids which include specialist sub-contractors who are used by more than one bidder.

2.8.2 The Employer reserves the right to:-

- a) amend the scope and value of any contract(s) to be bid,ed,
- b) Reject or accept any application without assigning any reason there of and it will not be challenged in any court of law; and
- c) Cancel the qualification process and reject all applications.

2.8.3 The Employer shall neither be liable for any such actions nor be under any obligation to inform the applicant of the grounds for rejection, however, may be debriefed if solicited.



Letter of Application

[Letterhead paper of the applicant, or partner responsible for a joint venture, including full postal address, telephone no., fax no., telex no., cable and e-mail address]

Date:.....

To: Jinnah Postgraduate Medical Centre, Karachi,
Rafiqi Shaheed Road,
Karachi-75510
Tel: 021-35211875-6

Sir,

1. Being duly authorized to represent and act on behalf of

(hereinafter "the Applicant"), and having reviewed and fully understood all the qualification information provided, the undersigned hereby apply to be qualified as a bidder for _____ (Project Name) _____

2. Attached to this letter are copies of original documents defining:

- (a) the applicant's legal status;
- (b) the principal place of business; and
- (c) the place of incorporation (for applicants who are corporations); or

the place of registration and the nationality of the owners (for applicants who are partnerships or individually-owned firms).

3. Your agency and its authorized representatives are hereby authorized to conduct any inquiries or investigations to verify the statements, documents, and information submitted

1

For applications by joint ventures, all the information requested in the Evaluation Criteria is to be provided for the joint venture, if it already exists, and for each party to the joint venture separately. The lead partner should be clearly identified. Each partner in the joint venture shall sign the letter.



in connection with this application, and to seek clarification from our bankers and clients regarding any financial and technical aspects. This letter of application will also serve as authorization to any individual or authorized representative of any institution referred to in the supporting information, to provide such information deemed necessary and requested by yourselves or the authorized representative to verify statements and information provided in this application, or with regard to the resources, experience, and competence of the applicant.

4. Your agency and its authorized representatives may contact the following persons for further information², if needed.

General and Managerial Inquiries	
Contact 1	Telephone 1
Contact 2	Telephone 2

Personnel Inquiries	
Contact 1	Telephone 1
Contact 2	Telephone 2

Technical Inquiries	
Contact 1	Telephone 1
Contact 2	Telephone 2

Financial Inquiries	
Contact 1	Telephone 1
Contact 2	Telephone 2

5. This application is made with the full understanding that:
- (a) bids by qualified applicants will be subject to verification of all information submitted for qualification at the time of bidding;
 - (b) your Agency reserves the right to:
 - (i) amend the scope and value of any contract under this project;
 - (ii) reject or accept any application, cancel the qualification process, and reject applications; and

2

Application by joint ventures should provide information on a separate sheet information for each party to the application.



- (c) your agency shall not be liable for any such actions and shall be under no obligation to inform the applicant of the grounds for actions at 5(b) hereabove.
- (d) your agency shall not be liable for consequence of, and shall be under no obligation to inform the applicant of the grounds for, actions taken under para 5(b) here above.

Applicants who are not joint ventures should delete para 6&7 and initial the deletions.

- 6. Appended to this application, we give details of the participation of each party, including capital contribution and profit/loss agreements, to the joint venture or association. We also specify the financial commitment in terms of the percentage of the value of the (each) contract, and the responsibilities for execution of the (each) contract.
- 7. We confirm that in the event that we bid, that bid as well as any resulting contract will be.
 - (a) Signed so as to legally bind all partners, jointly and severally; and
 - (b) submitted with a Joint Venture agreement providing the joint and several liability of all partners in the event the contract is awarded to us.
- 8. The undersigned declare that the statements made and the information provided in the duly completed application are complete, true, and correct in every detail.

Signed	Signed
Name	Name
For and on behalf of (name of Applicant or lead partner of a joint venture)	For and on behalf of (name and signature of other partners of the joint venture)



General Information

All individual firms and each partner of a joint venture applying for qualification are requested to complete the information in this form. Nationality information is also to be provided for foreign owners or applicants who are forming part of the Joint Ventures.

Where the applicant proposes to use named subcontractors for critical components of the works or for work contents in excess of 10 percent of the value of the whole works, the following information should also be supplied for the specialist subcontractor(s).

1.	Name of Firm	
2.	Head Office Address	
3.	Telephone	Contact Person: Name: Title:
4.	Fax	Telex
5.	Place of Incorporation/Registration	Year of incorporation/registration

NATIONALITY OF OWNERS	
NAME	NATIONALITY
1.	
2.	
3.	
4.	
5.	



Joint Venture Summary

Names of all Partners of a Joint Venture	
1. Lead Partner	
2. Partner	
3. Partner	
4. Partner	
5. Partner	
6. Partner	

Total value of annual construction turnover, in terms of work billed to clients,

Annual Turnover Data (Construction only; Equivalent in Pak Rupees, Millions)			
Partner	2015	2014	2013
1. Lead Partner			
2. Partner			
3. Partner			
4. Partner			
5. Partner			
6. Partner			
Total:			



Details of Contracts of Similar Nature and Complexity

Name of applicant or partner of a joint venture

Use a separate sheet for each contract.

1.	Name of Contract
	Country
2.	Name of Employer
3.	Employer Address
4.	Nature of works and special features relevant to the contract for which the Applicant wishes to prequalify
5.	Contract Role (Tick One) (a) Sole Contractor (b) Sub-Contractor (c) Partner in a Joint Venture
6.	Value of the total contract (in specified currencies) at completion, or at date of award for current contract Currency..... Currency..... Currency.....
7.	Equivalent in Pak/Rs.
8.	Date of Award
9.	Date of Completion
10.	Contract Duration (Years and Months) _____ Years _____ Months
11.	Specified Requirements I

1

Insert any specific criteria required for particular operations, such as annual volume of earthmoving, underground excavation, or placing concrete etc.



Personnel Capabilities

Name of applicant

For specific positions essential to contract implementation, applicants should provide the names of at least two candidates qualified to meet the specified requirements stated for each position. The data on their experience should be supplied on separate sheets using one form for each candidate (application form A-5).

1.	Title of Position
	Name of Prime Candidate
	Name of Alternate Candidate
2.	Title of Position
	Name of Prime Candidate
	Name of Alternate Candidate
3.	Title of Position
	Name of Prime Candidate
	Name of Alternate Candidate
4.	Title of Position
	Name of Prime Candidate
	Name of Alternate Candidate



Candidate Summary

<i>Name of Applicant</i>

	Position	Candidate [Tick appropriate one] <input type="checkbox"/> Prime <input type="checkbox"/> Alternate
Candidate information	1. Name of Candidate	2. Date of Birth
	3. Professional Qualification	
Present employment	4. Name of Employer	
	5. Address of Employer	
	Telephone	Contact (manager/personnel officer)
	Fax	Telex
	Job title of candidate	Years with present employer

Summarize professional experience over the last 20 years, in reverse chronological order. Indicate particular technical and managerial experience relevant to the Project.

Month/ Dates/Years		Company / Project / Position / Relevant technical and management experience
From	To	



Financial Capability

Name of Applicant or Partner of a Joint Venture

Applicants, including each partner of a joint venture, should provide financial information to demonstrate that they meet the requirements stated in the instructions to applicants. Each applicant or partner of a joint venture must fill-in this form. If necessary, use separate sheets to provide complete banker information. A copy of the audited balance sheets should be attached.

Banker	Name of banker	
	Address of banker	
	Telephone	Contact name and title
	Fax	Telex

Summarize actual assets and liabilities in Pak Rupees (Equivalent at the current rate of exchange at the end of each year) for the previous three years, based upon known commitments, projected assets and liabilities in Pak Rupees equivalent for the next two years.

Financial information in Pak Rs. Or equivalent	Actual Previous Three year		
	June 30, 2015	June 30, 2014	June 30, 2013
1. Total assets			
2. Current assets			
3. Total liabilities			
4. Current liabilities			
5. Profits before taxes			
6. Profits after taxes			



Specific proposed sources of financing to meet the cash flow of the Project, net of current commitments (Instructions to Applicants, para 2.4.13).

Source of financing	Amount (Pak Rs. or equivalent)
1.	
2.	
3.	
4.	

Attach audited financial statements for the last three years (for individual applicant or each partner of joint venture).

Firms owned by individuals, and partnerships, may submit their balance sheets certified by a registered accountant, and supported by copies of tax returns, if audits are not required by the laws of their countries of origin in case of foreign firms.



Litigation History

Name of Applicant or Partner of a Joint Venture

Applicants, including each of the partners of a joint venture, should provide information on any history of litigation or arbitration resulting from contracts executed in the last five years or currently under execution (Instructions to Applicants, para 2.5. A separate sheet should be used for each partner of joint venture.

Year	Award FOR or AGAINST Applicant	Name of client, cause of litigation, and matter in dispute	Disputed amount (current value Pak Rs. or equivalent)



Equipment Capabilities

Name of Applicant

The applicant shall provide adequate information to demonstrate clearly that he has the capability to meet the requirements for each and all items of equipment listed in the Instructions to applicants. A separate form shall be prepared for each item of equipment listed in para 2.4.5 of the Instructions to applicants.

Item of Equipment		
Equipment information	1. Name of manufacturer	2. Model and power rating
	3. Capacity	4. Year of manufacture
Current status	5. Current location	
	6. Details of current commitments	
Source	7. Indicate source of the equipment <input type="checkbox"/> Owned <input type="checkbox"/> Rented <input type="checkbox"/> Leased	

Omit the following information if it is owned by the Applicant or partner.

Owner	8. Name of owner	
	9. Address of owner	
	Telephone	Contact name and title
	Fax	Telex
Agreement	Details of rental/lease specific to the Project.	



Additional Information

Name of Applicant or partner of a joint venture

Additional Information

1. Certificate of Registration with Pakistan Engineering Council.
2. Certificate of registration with Income Tax Department in Pakistan and Income Tax Return for the last three years.
3. An affidavit to the effect that the Applicant has never been black-listed by the government /Semi government or any autonomous body.
4. An affidavit to the effect that all documents / particulars / information given with this qualification document are true. **Disqualification of Supplier and Contractors**, "The Procuring agency shall disqualify a supplier or contractor if it finds, at anytime, that the information submitted by him concerning his qualification as supplier or contractor was false and materially inaccurate or incomplete."
5. An affidavit to the effect that the Applicant has never indulged in corrupt, fraudulent or collusive practice for procuring contracts.
6. An affidavit to the effect that the firm is not presently involved nor has been in the past in litigation with the Employer. Should this be otherwise the Applicant must provide such details in form A-8 "Litigation History".
7. Any other pertinent information in support of this qualification should also be furnished.



SUPPLY & INSTALLATION OF 1500 kVA TRANSFORMERS
EVALUATION SCORING CRITERIA BASED ON THE SCORING SYSTEM AS UNDER

Sr. No.	Name of the Firm along with Postal Address, Phone & Fax #	TRANSFORMERS 11/415 (kV/V), 1500 kVA					REMARKS	
		Make / Type	Rated Voltage 11 kV	Ambient Temperature 50°c	Tapping Range 15%	No. of Tapping Steps 5		Principal Tapping at 11 kV
			20	20	20	20	20	MINIMUM QUALIFYING MARKS ARE 60%
1								
2								
3								
4								
5								



PREAMBLE TO CONDITIONS OF CONTRACT

- Commencement Date** The date for commencement of the Works is the date, within (07) days from the date of receipt of Engineer's Notice to Commence which shall be issued within fourteen (07) days after signing of Contract Agreement.
- Defect Liability Period** The Defect Liability Period is 365 days.
- The Employer** The Employer is Jinnah Postgraduate Medical Centre, Karachi, Rafiqi Shaheed Road, Karachi-75510 Tel: 021-99201300.
- The Engineer** The Engineer is National Engineering Services Pakistan (Pvt) Limited, 4th Floor, NICL Building, Abbasi Shaheed Road, Karachi.
- Time for Completion** The Time for Completion for supply & installation of Transformer and related works at site is 6 months from the Commencement Date.
- Warranty Period** 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. Running hours shall not be a limiting factor for the system warranty by either the manufacturer or servicing Dealer. Submittals received without written warranties as specified will be rejected in their entirety.
- Engineer's Duties & Authorities** Amount of Variation Order in emergency is $\pm 2\%$ of the Contract Price stated in the Letter of Acceptance.
- Confirmation in Writing** (i) If the Contractor shall require the confirmation it shall be notified to the Engineer within 07 days.
(ii) Engineer shall confirm the decision/instruction within 07 days.
- Ruling Language** The version in English language (ruling language) shall prevail.
- Day to Day Communications** The language for day to day communications is English.
- As-Built Drawings** As-Built drawings shall be provided to the Engineer within 15 days from the date of issue of Taking Over Certificate.
- General Obligations** Detail of Erection and Testing Equipment and Maintenance Tools is given herein below: *None*
- Programme to be Furnished** The Program must be submitted in the form *bar chart*.
- Electricity Water, Gas and Other Services** Supplies on the Site are:
- a) Electricity: _____ Not Provided
 - b) Water: _____ Not Provided
 - c) Gas: _____ Not Provided



d) Other Services: _____ Not Provided

- Employer's Equipment** The following Employer's equipment is available for use by the Contractor under the Employer's operation: *None*
- Working Hours** The normal working hours are *as per local law*.
- Earlier Completion** (i) Amount of Bonus per day: *Not applicable*
(ii) Max. Amount of Bonus: *Not applicable*
- Payment in Foreign Currencies** Payment in foreign currencies shall be arranged as follows: *Not applicable, all payments shall be made in Pak Rupees.*
- Insurance of Works** The deductible limits in the insurance cover of the Works shall be responsibility of The Contractor.

The additional risks to be insured are: *None*
- Labour, Materials and Transport** The method of calculating adjustments for changes in cost shall be: *Not Applicable*
- Disputes & Arbitration** Venue of Arbitration Karachi, Sindh, Pakistan.
- Procedural Law for Arbitration** The procedural law for arbitration is Arbitration Act, 1940
- Language and Place of Arbitration** The language of arbitration is *English Language*.
The place of arbitration is *Karachi, Sindh, Pakistan*.



CONSTRUCTION OF NEW SURGICAL ONCOLOGY COMPLEX AT JPMC , KARACHI

CODE # 00: INDOOR POWER TRANSFORMER

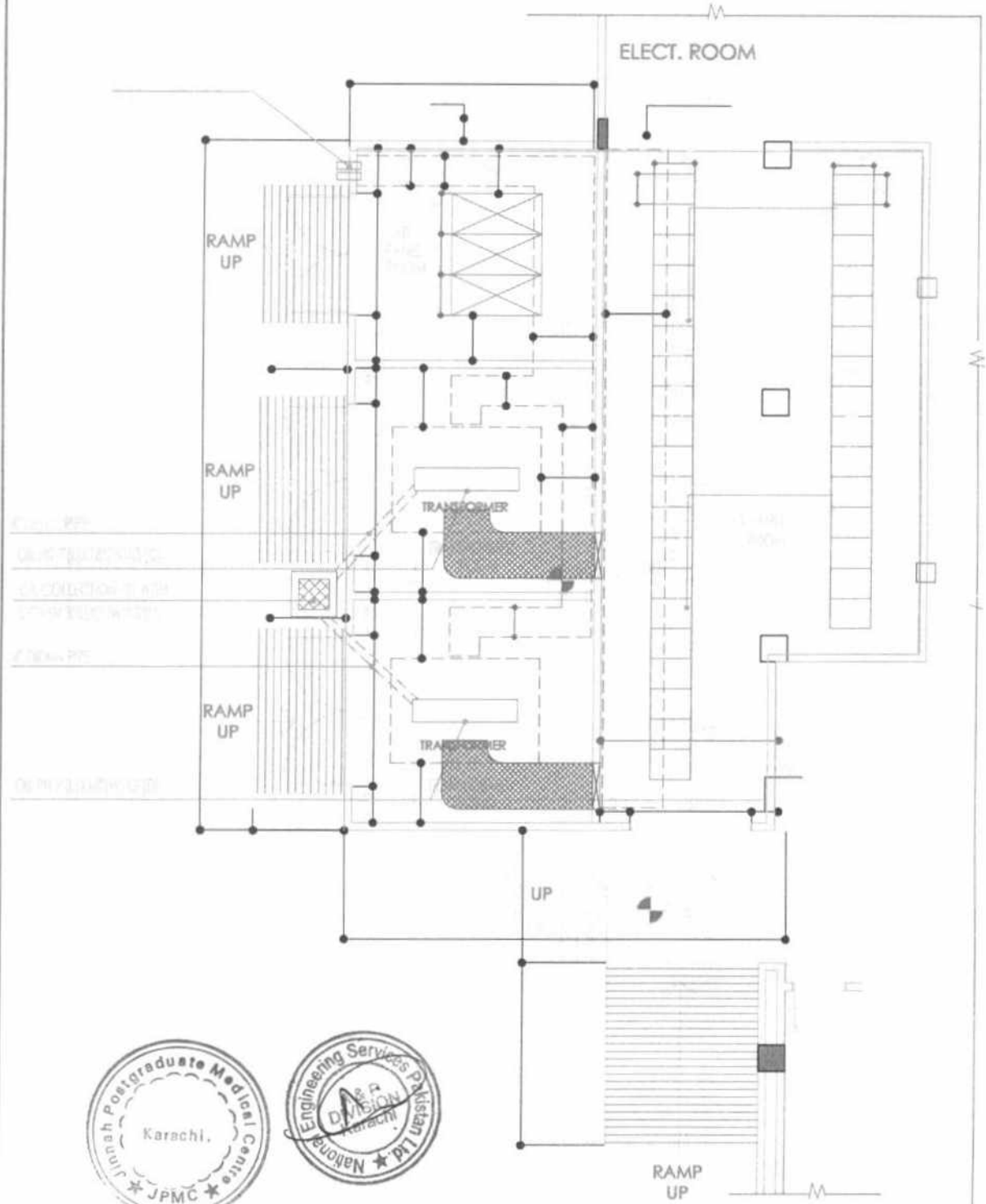
BILL OF QUANTITIES

Item No.	Description	Unit	Qty.	Unit Rate	Qty.
(1)	(2)	(3)	(4)	(5)	(6)
	<p><u>E. Electrical Works</u></p> <p>The Contractor shall read BoQ alongwith Specifications and Drawings. The Scope of Works includes but not limited to Supply, installation, testing and commissioning of the following items of work (unless specifically stated otherwise) including all material, labour, tool, plant, accessories, related civil works etc. required for proper completion of each item of works as per specifications. The contractor is bound to submit all relevent data, information, literature, drawings, submittals etc. as per specifications & recommended manufacturers list to The engineer for necessary approvals. To minimize unnecessary delays and conflicts The contractor shall also coordinate with other contractors working on this project. The contractor shall also bond to provide the services as and when required at no additional cost for interfacing of this electrical system with other electrcial systems installed or to be installed in this Project. All relevent NOC/fitness certificates shall be obtained by the Contractor.</p>	-			

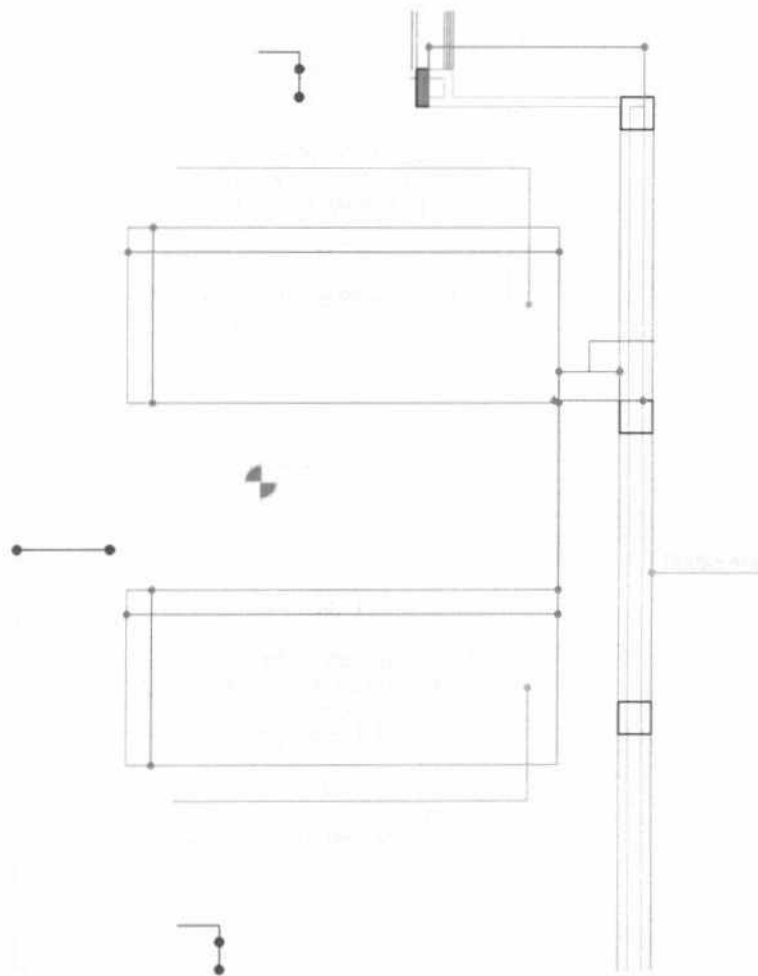


<u>Indoor Power Transformer</u>					
1-1E	1500 kVA distribution transformer (indoor), 11/0.415 kV, including control wiring to HT/LT switchboard, cable mounting channels, related civil works and all accessories, complete in all respect. (Local authority or electricity service provider approvals shall be obtained by the contractor)	Job.	2		
1-2E	Spare parts for 1500 kVA indoor power transformer as per specification requirements includes but not limited to silica gel in sealed pack, dial type thermometer, pressure release safety valve or any other spare part as per manufacturer's recommendation.	Job.	1		
Total Cost					





**SUBSTATION
GROUND FLOOR PLAN
FOR COORDINATION WITH AMF/ATS PANEL**



**SUBSTATION
ROOF PLAN
FOR GENERATOR INSTALLATION**

NOTE:

1. THE CANOPY FOR DIESEL GENERATOR SHALL BE MANUFACTURED AS PER SITE CONDITION AND SPACE AVAILABLE.
2. THE RUBBER PAD TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AS APPROVED BY STRUCTURAL ENGINEER.



GOVERNMENT OF SINDH
JINNAH POSTGRADUATE MEDICAL CENTRE
KARACHI



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

(3)

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



Due on: 18-05-2017

GOVERNMENT OF SINDH
JINNAH POSTGRADUATE MEDICAL CENTRE
KARACHI-75510

TENDER DOCUMENT

TENDER NO.F.1-349/2016-17-(P&D)/JPMC

TENDER FOR SUPPLY AND INSTALLATION OF 625 kVA UPS FOR JINNAH
POSTGRADUATE MEDICAL CENTRE KARACHI
FOR THE YEAR 2016-17

DUE ON 18-05-2017

COST OF TENDER	Rs. 2000/= (Rupees five Thousand Only) non refundable
TENDER SELLING DATE	From 01-05-2017 To 17-05-2017
TENDER SUBMISSION PLACE	HALL-B, NAJAMUDDIN AUDITORIUM, JPMC, KARACHI
TENDER SUBMISSION DATE	18-05-2017
TENDER SUBMISSION TIME	09:00 AM to 10.30 AM
TENDER OPENING PLACE	HALL-B, NAJAMUDDIN AUDITORIUM, JPMC, KARACHI
TENDER OPENING DATE	18-05-2017
TENDER OPENING TIME	11:00 AM

*Note : No tender will be accepted after closing the Tender box,
What so ever reason may be.*



NO.F.1-349/2016-17-(P&D)/JPMC
GOVERNMENT OF SINDH
JINNAH POSTGRADUATE MEDICAL CENTRE
KARACHI-75510

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

TERMS AND CONDITIONS / INSTRUCTIONS TO BIDDERS

- 1) Single Stage - Two Envelopes procedure as per SINDH PPRA-2010 Rule 46(2) will be followed (single stage two envelopes procedure) i.e. **TECHNICAL** and **FINANCIAL PROPOSAL** will be placed in separate sealed envelopes and marked accordingly These two envelop should be placed in one envelop addressed to the Executive Director, JPMC, Karachi with Tender number and inserted in the tender box on scheduled date and time.
- 2) The Bidder shall prepare bid containing "**FINANCIAL PROPOSAL**" and "**TECHNICAL PROPOSAL**" in bold and legible letter to avoid confusion. The financial and technical bids, each consisting of the documents listed above.

In Technical Proposal the bidder must provide the original Data sheet and Technical brochure, Income Tax, Sales Tax, Sole Agency certificate and other documents; otherwise the bid will not be accepted.

In Financial Proposal, the bidder should provide bid security / earnest money at the rate of 2.5% of the quoted value. Financial Proposal should contain quoted rate and original bid security. A copy with erased value of amount to be placed in technical proposal depicting the proof of submission bid security.

- 3) The purchaser will initially open only the envelopes marked "**Technical Proposal**" in the presence of Bidders or their representatives who chose to be present at the time of bid opening date, time and place specified in the tender documents. The Bidder or their representative who are present shall sign the attendance sheet. The envelope marked "**Financial Proposal**" shall be retained in the custody of purchaser without being opened till the completion of the Technical Evaluation.
- 4) Bids shall remain valid for 90 days from the date of opening. A bid valid for a shorter period shall be rejected as being non-responsive.
- 5) The bidders shall quote their prices inclusive of all duties /taxes/Octroi transportation etc, and all other expenses on free delivery to Consignee's end in local currency.
- 6) Price should be quoted in clear manner including of Figures & words both, failing which the offer will be ignored.
- 7) The bid prepared by the Bidder shall comprise the following documents:
 - (a) Bid Form & Price Schedules duly completed by the Bidder.
 - (b) The Bidder shall furnish a bid security @ 2.5% of the quoted value in the form of Pay Order / Bank Draft in the financial proposal.
 - (c) The original catalogue must accompany with offer.

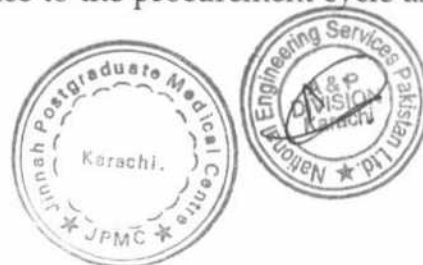


- (d) Sole Agency / Authorized Dealer Certificate from the OEM must be provided by the bidder.
 - (e) The service manual with circuit diagram will be provided (for equipment)
 - (f) A certificate from the manufacturer that the offered machine / equipment being used in the country of origin.
 - (g) A detail data sheet having description of the essential technical and performance characteristics of the offered equipment.
 - (h) The original tender purchase receipt.
 - (i) Bidders shall purchase separate tender document and furnish purchase receipts for alternate offer, in case they want to submit alternate offer. Any item's bid with alternate offers without separate purchase receipt (Original) is supposed to be rejected.
 - (j) The bidder shall furnish copy of valid Professional Tax (Excise & Taxation) Certificate/Income Tax Certificate/GST Registration Certificate.
 - (k) Bidder shall submit guarantee letter that the supplied Machinery / Equipment is the original / brand new product / latest model, none of the part is replaced, old or refurbished.
 - (l) Bidder must enclose a list of users in Sindh / Pakistan of the quoted items. Bidder must submit the proof for the availability of workshop & trained engineers qualified persons for the machines at Sindh for after sale service.
 - (m) Bidder must enclose sealed Bank letter of financial capacity of firm addressed to the Executive Director JPMC, Karachi in financial proposal.
- 8) The prices quoted by the Bidder shall be fixed during the performance of the contract and not subject to variation on any account. A bid submitted with an adjustable price or conditional will be treated as non-responsive and rejected.
 - 9) Initially the bid evaluation will be performed after that Technical Specification will be evaluated by Technical Committee on the basis of the data sheet and the literature provided / submitted by the firm. Financial bids of technical qualified firms will be opened.
 - 10) All pages of the bid shall be signed & duly stamped by the person or persons signing the bid accept for un-amended printed literature and duly stamped.
 - 11) The bid shall contain no alterations, omissions, or additions, unless such corrections are initialed by the person or persons signing the bid.
 - 12) Bids shall be submitted either by the manufacturer or its sole agent, if submitted by the manufacturer itself then bid of authorized sole agent will be rejected. No sublet will be allowed.
 - 13) Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price, which is obtained by multiplying the unit price and quantity, or between subtotals and the total price, the unit or subtotal price shall prevail, and the total price shall be corrected. If there is a discrepancy between words and figures, the amount in words will prevail. If the Bidder does not accept the correction of errors, its bid will be rejected.



- 14) For Purchase on C&F/CFR (Cost and freight) basis, JPMC will issue Contract/Purchase Order. The vendor will carry out all works regarding the import of equipment i.e. from opening of L/C to delivery and installation of equipment. JPMC Administration will provide help as and when required.
- 15) The Vender has to open Letter of Credit in the name of Executive Director, JPMC, Karachi and also mentioned JPMC FTN No. in L/C for item(s) as per purchase order. A copy of all documents should be submitted to JPMC time to time. Only JPMC should be the consignee of the equipment.
- 16) JPMC Administration will assist the vendor in clearing the consignment; JPMC will provide Undertaking and other letters for the exemption of the payment of Sale Tax, Customs charges, Income Tax and other taxes applicable on such import.
- 17) All the (applicable) Government taxes (Income Tax / Stamp Duty) of the value of the contract amount will be deducted from the bills of the Contractors / Suppliers.
- 18) The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of contract under the relevant provisions of SPP Rules 2010 (Amended 2017), without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for the Purchaser's action.
- 19) Prior to the expiration of the period of bid validity, the Purchaser will notify the successful Bidder through Advance acceptance. This will constitute the formation of the contract. Within seven (07) days after receipt of the Advance acceptance, the successful Bidder shall furnish the performance security @ 10% of the contracted amount in the form of Pay Order / Bank Draft / Bank Guarantee and will sign the contract agreement.
- 20) Bid validity can be extended as per SPP Rule 2010 (Amended 2017).
- 21) Sole / Authorized Dealer or Agent once nominated by the manufacturer will be for the whole contract period and manufacturer cannot change during the year in any case. In exceptional cases the tendering authority may approve changes.
- 22) The supplier should submit the bill/Invoice for payment addressed to the Executive Director, JPMC, Karachi after opening of L/C along with following documents :
 - i. Three copies of Bill/Invoice
 - ii. Three copies of Purchase Order
 - iii. Three copies of L/C along with (Performa Invoice, Packing list, insurance, etc.).
 - iv. Bank Guarantee
 - v. Undertaking on stamp paper

The payment scheduling shall be done in accordance to the procurement cycle as notified on SPPRA official web site.



General & Special Conditions of Contract

- 1) The Contract shall be governed by and interpreted in accordance with laws of the Islamic Republic of Pakistan.
- 2) Store is required within delivery period. The bidder may however give their short guaranteed delivery period by which the supply will be completed but not later than 120 days from date of purchase order. No Extension will be granted / accorded for the supply.
- 3) The manufacturer should provide an undertaking that if his sole agent fails to carry out any assignment in total or in part, manufacturer will be responsible to carry out the same.
- 4) The Contract Price shall be made to the Contractor as specified in the Contract Agreement, subject to the general principle / procedure of the Government of Sindh.
- 5) The Contract shall be executed in accordance with the Contract Documents and procedures.
- 6) The Purchaser or its representative shall inspect the Machinery / Equipment to confirm their conformity to the Contract specification. The inspection will be conducted at the premises of consignee after receipt of supply.
- 7) If the Contractor fails to attain Completion of the supply or installation within the Time for Completion shall pay to the Purchaser liquidated damages at the rate of 2% per month (0.5% per week) of the Contract Price, or the relevant part thereof. The aggregate amount of such liquidated damages shall in no event exceed the amount of 10%. Once the "Maximum" is reached, the Purchaser may consider termination of the Contract.
- 8) The Contractor warrants that the supplied equipment or any part thereof shall be free from defects in the design, engineering, materials etc. In case of defect in any part at the time of supply of installation it shall be replaced with new one instead of repair.
- 9) The purchaser, without prejudice to any other remedy for breach of contract by written notice of default sent to the supplier, may terminate this contract in whole or in part:
 - (a) If the supplier fails to deliver any or all of the contracted items within the period(s) specified in the Contract, or within any extension thereof granted by the Purchaser.
 - (b) If the Supplier fails to perform any other obligation(s) under the Contract.
 - (c) If the supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.
- 10) Service charges @ current prevailing charges of the value of the Contract will realized/charged by the A.G. Sindh, while making payment to the contractors for award of each contract.



Criteria for Evaluation of Bids

In Addition to the evaluation criteria document the following must be ensured:

- 1 Earnest money submission (Original attach with financial proposal and copy attach with technical proposal).
- 2 Compliance of terms and conditions, required documents / information as described in the Instructions of bidders, General and special conditions of the bid document. Bidder must qualify the bid evaluation. Only qualified bid evaluation bidders will be evaluated technically.
- 3 Relevant Experience and past performance of manufacturer / sole Dealer in terms of supply & after sale service.
- 4 After sale service facility with availability of work shop, Technical staff, Tools and spare parts.
- 5 Authority letter from manufacturer with validity period not less than five years.
- 6 Submission of original Catalogue with complete mailing address of the company, telephone / Fax Nos. and Web site for each quoted item.
- 7 Technical evaluations as per tender specification.
- 8 Operational cost of equipment.
- 9 Delivery schedule.
- 10 Evaluation of quoted price (After opening financial proposal).

UNDERTAKING

- a) That I/we agree whether our tender accepted for total, partial or enhanced quantity for all or any single item. I/We also agreed to supply and accept the said item at the rates for the supply of contracted quantity within the stipulated period shown in the contract.
- b) I/We understand and confirm the refund of cost difference if the same goods is/was supplied at lower rates to any other Govt. /Semi Govt. institution in the province in the same fiscal year.
- c) I/We undertake that, if any of the information submitted in accordance to this tender Enquiry found incorrect, our contract may be cancelled at any stage on our cost and risk.

CERTIFICATE

We guarantee to supply the stores exactly in accordance with the requirement specified in the invitation to this tender.



Signature of Tenderer -----

Name & Designation-----

Address:-----

UPS Technical Specifications & Quantities

1	80kVA THREE PHASE TO THREE PHASE ONLINE UPS WITH BATTERIES	QTY
1.1	Must be true online double conversion IGBT technology	1
1.2	Should be completely digitally controlled	
1.3	Should have remote communication and monitoring options	
1.4	Should have emergency power off switch	
1.5	Should have auto restarting capabilities	
1.6	Operating temperature: 15°C - 30°C or better	
1.7	Storage temperature: 15°C - 40°C or better	
1.8	Should have advanced battery management for optimum charging and discharging	
1.9	Should have 400 real time event logs with detailed parameters or more	
1.10	Dual input supply (optional)	
1.11	Should have a small footprint to save space and easy maintenance	
1.12	Should be compatible with standby generator	
1.13	Static Bypass Switch	
1.14	Manual Operated Bypass Switch with Enclosure (ABB, Schneider)	
2	INPUT	
2.1	Voltage range: 380VAC \pm 15% three phase + Neutral + Earth or better.	
2.2	Input frequency range: 50Hz-60Hz (selectable) or better	
2.3	Harmonic distortion: <4% or better	
3	OUTPUT	
3.1	Voltage: 380vac \pm 2%three phase + Neutral or better	
3.2	Power factor: 1.0	
3.3	Output frequency range: 50Hz \pm 1% synchronous with utility or generator / 50Hz \pm 0.5% battery mode or better	
3.4	Normal mode efficiency: 90% or better	
3.5	Economy mode efficiency: 95% or better	
3.6	Overload operation: at 125% load 10min, at 150% load 1min or better	
3.6	Harmonic distortion: <3% (linear load), < 6% (non-linear load) or better	
4	PROTECTIONS	
4.1	IP20 protection class or better	
4.2	Input voltage out of tolerance safety	
4.3	Input phase failure protection	
4.4	Output voltage out of tolerance protection	
4.5	Output phase failure protection	
4.6	Output overload protection	
4.7	Failure due to overheating protection	
4.8	Output short circuit protection	
5	BATTERIES	
5.1	External 12Volts sealed lead acid maintenance free batteries must be from the same manufacturer	
5.2	Should have variable charger current	
5.3	Should have 0ms transfer time to battery	
5.4	Should have 0ms transfer time to bypass	
5.5	5minutes to 8minutes backup or better	
5.6	Battery Cabinet must be included	



6	PARALLEL / REDUNDANT OPERATION	
6.1	Must have autosensing for disconnection of parallel cable	
6.2	Must have equal current share between parallel units via DSP (Digital Signal Processor)	
6.3	All parallel systems should be able to be controlled from one control panel of a ups	
6.4	Must have isolated parallel cards	
6.5	Complete paralleling kits should be included	
6.6	Or equivalent	
7	CERTIFICATIONS	
7.1	ISO 9001, ISO 14001 and ISO 18001	
7.2	EN 62040-3	
7.3	EN 62040-2, EN 62040-1 & EN 60950	
7.4	CE marked	
8	WARRANTY	
8.1	5 years for UPS	
8.2	2 years for Batteries	
8.3	Warranty will start after installation, commissioning and handover of UPS Systems	
9	COUNTRY OF MANUFACTURING & ORIGIN	
9.1	USA/UK/EUROPE/JAPAN	
9.2	Bidder will be responsible of complete installation and demonstration	
10	60kVA THREE PHASE TO THREE PHASE ONLINE UPS WITH BATTERIES	QTY
10.1	Must be true online double conversion IGBT technology	1
10.2	Should be completely digitally controlled	
10.3	Should have remote communication and monitoring options	
10.4	Should have emergency power off switch	
10.5	Should have auto restarting capabilities	
10.6	Operating temperature: 15°C - 30°C or better	
10.7	Storage temperature: 15°C - 40°C or better	
10.8	Should have advanced battery management for optimum charging and discharging	
10.9	Should have 400 real time event logs with detailed parameters or more	
10.10	Dual input supply (optional)	
10.11	Should have a small footprint to save space and easy maintenance	
10.12	Should be compatible with standby generator	
10.13	Static Bypass Switch	
10.14	Manual Operated Bypass Switch with Enclosure (ABB, Schneider)	
11	INPUT	
11.1	Voltage range: 380VAC \pm 15% three phase + Neutral + Earth or better.	
11.2	Input frequency range: 50Hz-60Hz (selectable) or better	
11.3	Harmonic distortion: <4% or better	
12	OUTPUT	
12.1	Voltage: 380vac \pm 2%three phase + Neutral or better	
12.2	Power factor: 1.0	
12.3	Output frequency range: 50Hz \pm 1% synchronous with utility or generator / 50Hz \pm 0.5% battery mode or better	
12.4	Normal mode efficiency: 90% or better	



12.5	Economy mode efficiency: 95% or better	
12.6	Overload operation: at 125% load 10min, at 150% load 1min or better	
12.7	Harmonic distortion: <3% (linear load), < 6% (non-linear load) or better	
13	PROTECTIONS	
13.1	IP20 protection class or better	
13.2	Input voltage out of tolerance safety	
13.3	Input phase failure protection	
13.4	Output voltage out of tolerance protection	
13.5	Output phase failure protection	
13.6	Output overload protection	
13.7	Failure due to overheating protection	
13.8	Output short circuit protection	
14	BATTERIES	
14.1	External 12Volts sealed lead acid maintenance free batteries must be from the same manufacturer	
14.2	Should have variable charger current	
14.3	Should have 0ms transfer time to battery	
14.4	Should have 0ms transfer time to bypass	
14.5	5minutes to 8minutes backup or better	
14.6	Battery Cabinet must be included	
15	PARALLEL / REDUNDANT OPERATION	
15.1	Must have autosensing for disconnection of parallel cable	
15.2	Must have equal current share between parallel units via DSP (Digital Signal Processor)	
15.3	All parallel systems should be able to be controlled from one control panel of a ups	
15.4	Must have isolated parallel cards	
15.5	Complete paralleling kits should be included	
15.6	Or equivalent	
16	CERTIFICATIONS	
16.1	ISO 9001, ISO 14001 and ISO 18001	
16.2	EN 62040-3	
16.3	EN 62040-2, EN 62040-1 & EN 60950	
16.4	CE marked	
17	WARRANTY	
17.1	5 years for UPS	
17.2	2 years for Batteries	
17.3	Warranty will start after installation, commissioning and handover of UPS Systems	
18	COUNTRY OF MANUFACTURING & ORIGIN	
18.1	USA/UK/EUROPE/JAPAN	
18.2	Bidder will be responsible of complete installation and demonstration	
19	50kVA THREE PHASE TO THREE PHASE ONLINE UPS WITH BATTERIES	QTY
19.1	Must be true online double conversion IGBT technology	2
19.2	Should be completely digitally controlled	
19.3	Should have remote communication and monitoring options	
19.4	Should have emergency power off switch	



19.5	Should have auto restarting capabilities
19.6	Operating temperature: 15°C - 30°C or better
19.7	Storage temperature: 15°C - 40°C or better
19.8	Should have advanced battery management for optimum charging and discharging
19.9	Should have 400 real time event logs with detailed parameters or more
19.10	Dual input supply (optional)
19.11	Should have a small footprint to save space and easy maintenance
19.12	Should be compatible with standby generator
19.13	Static Bypass Switch
19.14	Manual Operated Bypass Switch with Enclosure (ABB, Schneider)
20	INPUT
20.1	Voltage range: 380VAC \pm 15% three phase + Neutral + Earth or better.
20.2	Input frequency range: 50Hz-60Hz (selectable) or better
20.3	Harmonic distortion: <4% or better
21	OUTPUT
21.1	Voltage: 380vac \pm 2%three phase + Neutral or better
21.2	Power factor: 1.0
21.3	Output frequency range: 50Hz \pm 1% synchronous with utility or generator / 50Hz \pm 0.5% battery mode or better
21.4	Normal mode efficiency: 90% or better
21.5	Economy mode efficiency: 95% or better
21.6	Overload operation: at 125% load 10min, at 150% load 1min or better
21.7	Harmonic distortion: <3% (linear load), < 6% (non-linear load) or better
22	PROTECTIONS
22.1	IP20 protection class or better
22.2	Input voltage out of tolerance safety
22.3	Input phase failure protection
22.4	Output voltage out of tolerance protection
22.5	Output phase failure protection
22.6	Output overload protection
22.7	Failure due to overheating protection
22.8	Output short circuit protection
23	BATTERIES
23.1	Internal/External 12Volts sealed lead acid maintenance free batteries must be from the same manufacturer
23.2	Should have variable charger current
23.3	Should have 0ms transfer time to battery
23.4	Should have 0ms transfer time to bypass
23.5	5minutes to 8minutes backup or more
23.6	Battery Cabinet must be included
24	PARALLEL / REDUNDANT OPERATION
24.1	Must have autosensing for disconnection of parallel cable
24.2	Must have equal current share between parallel units via DSP (Digital Signal Processor)
24.3	All parallel systems should be able to be controlled from one control panel of a ups
24.4	Must have isolated parallel cards
24.5	Complete paralleling kits should be included



24.6	Or equivalent	
25	CERTIFICATIONS	
25.1	ISO 9001, ISO 14001 and ISO 18001	
25.2	EN 62040-3	
25.3	EN 62040-2, EN 62040-1 & EN 60950	
25.4	CE marked	
26	WARRANTY	
26.1	5 years for UPS	
26.2	2 years for Batteries	
26.3	Warranty will start after installation, commissioning and handover of UPS Systems	
27	COUNTRY OF MANUFACTURING & ORIGIN	
27.1	USA/UK/EUROPE/JAPAN	
27.2	Bidder will be responsible of complete installation and demonstration	
28	40 kVA THREE PHASE TO THREE PHASE ONLINE UPS WITH BATTERIES	QTY
28.1	Must be true online double conversion IGBT technology	1
28.2	Should be completely digitally controlled	
28.3	Should have remote communication and monitoring options	
28.4	Should have emergency power off switch	
28.5	Should have auto restarting capabilities	
28.6	Operating temperature: 15°C - 30°C or better	
28.7	Storage temperature: 15°C - 40°C or better	
28.8	Should have advanced battery management for optimum charging and discharging	
28.9	Should have 400 real time event logs with detailed parameters or more	
28.10	Dual input supply (optional)	
28.11	Should have a small footprint to save space and easy maintenance	
28.12	Should be compatible with standby generator	
28.13	Static Bypass Switch	
28.14	Manual Operated Bypass Switch with Enclosure (ABB, Schneider)	
29	INPUT	
29.1	Voltage range: 380VAC \pm 15% three phase + Neutral + Earth or better.	
29.2	Input frequency range: 50Hz-60Hz (selectable) or better	
29.3	Harmonic distortion: <4% or better	
30	OUTPUT	
30.1	Voltage: 380vac \pm 2%three phase + Neutral or better	
30.2	Power factor: 1.0	
30.3	Output frequency range: 50Hz \pm 1% synchronous with utility or generator / 50Hz \pm 0.5% battery mode or better	
30.4	Normal mode efficiency: 90% or better	
30.5	Economy mode efficiency: 95% or better	
30.6	Overload operation: at 125% load 10min, at 150% load 1min or better	
30.7	Harmonic distortion: <3% (linear load), < 6% (non-linear load) or better	
31	PROTECTIONS	
31.1	IP20 protection class or better	
31.2	Input voltage out of tolerance safety	
31.3	Input phase failure protection	
31.4	Output voltage out of tolerance protection	



31.5	Output phase failure protection	
31.6	Output overload protection	
31.7	Failure due to overheating protection	
31.8	Output short circuit protection	
32	BATTERIES	
32.2	Internal/External 12Volts sealed lead acid maintenance free batteries must be from the same manufacturer	
32.3	Should have variable charger current	
32.4	Should have 0ms transfer time to battery	
32.5	Should have 0ms transfer time to bypass	
32.6	5minutes to 8minutes backup or more	
32.7	Battery Cabinet must be included	
33	PARALLEL / REDUNDANT OPERATION	
33.1	Must have autosensing for disconnection of parallel cable	
33.2	Must have equal current share between parallel units via DSP (Digital Signal Processor)	
33.3	All parallel systems should be able to be controlled from one control panel of a ups	
33.4	Must have isolated parallel cards	
33.5	Complete paralleling kits should be included	
33.6	Or equivalent	
34	CERTIFICATIONS	
34.1	ISO 9001, ISO 14001 and ISO 18001	
34.2	EN 62040-3	
34.3	EN 62040-2, EN 62040-1 & EN 60950	
34.4	CE marked	
35	WARRANTY	
35.1	5 years for UPS	
35.2	2 years for Batteries	
35.3	Warranty will start after installation, commissioning and handover of UPS Systems	
36	COUNTRY OF MANUFACTURING & ORIGIN	
36.1	USA/UK/EUROPE/JAPAN	
36.1	Bidder will be responsible of complete installation and demonstration	
37	30 kVA THREE PHASE TO THREE PHASE ONLINE UPS WITH BATTERIES	
37.1	Must be true online double conversion IGBT technology	QTY
37.2	Should be completely digitally controlled	5
37.3	Should have remote communication and monitoring options	
37.4	Should have emergency power off switch	
37.5	Should have auto restarting capabilities	
37.6	Operating temperature: 15°C - 30°C or better	
37.7	Storage temperature: 15°C - 40°C or better	
37.8	Should have advanced battery management for optimum charging and discharging	
37.9	Should have 400 real time event logs with detailed parameters or more	
37.10	Dual input supply (optional)	
37.11	Should have a small footprint to save space and easy maintenance	
37.12	Should be compatible with standby generator	



37.13	Static Bypass Switch
37.14	Manual Operated Bypass Switch with Enclosure (ABB, Schneider)
38	INPUT
38.1	Voltage range: 380VAC \pm 15% three phase + Neutral + Earth or better.
38.2	Input frequency range: 50Hz-60Hz (selectable) or better
38.3	Harmonic distortion: <4% or better
39	OUTPUT
39.1	Voltage: 380vac \pm 2%three phase + Neutral or better
39.2	Power factor: 1.0
39.3	Output frequency range: 50Hz \pm 1% synchronous with utility or generator / 50Hz \pm 0.5% battery mode or better
39.4	Normal mode efficiency: 90% or better
39.5	Economy mode efficiency: 95% or better
39.6	Overload operation: at 125% load 10min, at 150% load 1min or better
39.7	Harmonic distortion: <3% (linear load), < 6% (non-linear load) or better
40	PROTECTIONS
40.1	IP20 protection class or better
40.2	Input voltage out of tolerance safety
40.3	Input phase failure protection
40.4	Output voltage out of tolerance protection
40.5	Output phase failure protection
40.6	Output overload protection
40.7	Failure due to overheating protection
40.8	Output short circuit protection
41	BATTERIES
41.1	Internal/External 12Volts sealed lead acid maintenance free batteries must be from the same manufacturer
41.2	Should have variable charger current
41.3	Should have 0ms transfer time to battery
41.4	Should have 0ms transfer time to bypass
41.5	5minutes to 8minutes backup or more
41.6	Battery Cabinet must be included
42	PARALLEL / REDUNDANT OPERATION
42.1	Must have autosensing for disconnection of parallel cable
42.2	Must have equal current share between parallel units via DSP (Digital Signal Processor)
42.3	All parallel systems should be able to be controlled from one control panel of a ups
42.4	Must have isolated parallel cards
42.5	Complete paralleling kits should be included
42.6	Or equivalent
43	CERTIFICATIONS
43.1	ISO 9001, ISO 14001 and ISO 18001
43.2	EN 62040-3
43.3	EN 62040-2, EN 62040-1 & EN 60950
43.4	CE marked
44	WARRANTY
44.1	5 years for UPS
44.2	2 years for Batteries



44.3	Warranty will start after installation, commissioning and handover of UPS Systems	
45	COUNTRY OF MANUFACTURING & ORIGIN	
45.1	USA/UK/EUROPE/JAPAN	
45.2	Bidder will be responsible of complete installation and demonstration	
46	20kVA THREE PHASE TO THREE PHASE ONLINE UPS WITH BATTERIES	
46.1	Must be true online double conversion IGBT technology	QTY
46.2	Should be completely digitally controlled	5
46.3	Should have remote communication and monitoring options	
46.4	Should have emergency power off switch	
46.5	Should have auto restarting capabilities	
46.6	Operating temperature: 15°C - 30°C or better	
46.7	Storage temperature: 15°C - 40°C or better	
46.8	Should have advanced battery management for optimum charging and discharging	
46.9	Should have 400 real time event logs with detailed parameters or more	
46.10	Dual input supply (optional)	
46.11	Should have a small footprint to save space and easy maintenance	
46.12	Should be compatible with standby generator	
46.13	Static Bypass Switch	
46.14	Manual Operated Bypass Switch with Enclosure (ABB, Schneider)	
47	INPUT	
47.1	Voltage range: 380VAC \pm 15% three phase + Neutral + Earth or better.	
47.2	Input frequency range: 50Hz-60Hz (selectable) or better	
47.3	Harmonic distortion: <4% or better	
48	OUTPUT	
48.1	Voltage: 380vac \pm 2%three phase + Neutral or better	
48.2	Power factor: 1.0	
48.3	Output frequency range: 50Hz \pm 1% synchronous with utility or generator / 50Hz \pm 0.5% battery mode or better	
48.4	Normal mode efficiency: 90% or better	
48.5	Economy mode efficiency: 95% or better	
48.6	Overload operation: at 125% load 10min, at 150% load 1min or better	
48.7	Harmonic distortion: <3% (linear load), < 6% (non-linear load) or better	
49	PROTECTIONS	
49.1	IP20 protection class or better	
49.2	Input voltage out of tolerance safety	
49.3	Input phase failure protection	
49.4	Output voltage out of tolerance protection	
49.5	Output phase failure protection	
49.6	Output overload protection	
49.7	Failure due to overheating protection	
49.8	Output short circuit protection	
50	BATTERIES	
50.1	Internal/External 12Volts sealed lead acid maintenance free batteries must be from the same manufacturer	
50.2	Should have variable charger current	



50.3	Should have 0ms transfer time to battery	
50.4	Should have 0ms transfer time to bypass	
50.5	5minutes to 8minutes backup or more	
50.6	Battery Cabinet must be included	
51	PARALLEL / REDUNDANT OPERATION	
51.1	Must have autosensing for disconnection of parallel cable	
51.2	Must have equal current share between parallel units via DSP (Digital Signal Processor)	
51.3	All parallel systems should be able to be controlled from one control panel of a ups	
51.4	Must have isolated parallel cards	
51.5	Complete paralleling kits should be included	
51.6	Or equivalent	
52	CERTIFICATIONS	
52.1	ISO 9001, ISO 14001 and ISO 18001	
52.2	EN 62040-3	
52.3	EN 62040-2, EN 62040-1 & EN 60950	
52.4	CE marked	
53	WARRANTY	
53.1	5 years for UPS	
53.2	2 years for Batteries	
53.3	Warranty will start after installation, commissioning and handover of UPS Systems	
54	COUNTRY OF MANUFACTURING & ORIGIN	
54.1	USA/UK/EUROPE/JAPAN	
54.2	Bidder will be responsible of complete installation and demonstration	
55	15 kVA THREE PHASE TO THREE PHASE ONLINE UPS WITH BATTERIES	
55.1	Must be true online double conversion IGBT technology	QTY
55.2	Should be completely digitally controlled	6
55.3	Should have remote communication and monitoring options	
55.4	Should have emergency power off switch	
55.5	Should have auto restarting capabilities	
55.6	Operating temperature: 15°C - 30°C or better	
55.7	Storage temperature: 15°C - 40°C or better	
55.8	Should have advanced battery management for optimum charging and discharging	
55.9	Should have 400 real time event logs with detailed parameters or more	
55.10	Dual input supply (optional)	
55.11	Should have a small footprint to save space and easy maintenance	
55.12	Should be compatible with standby generator	
55.13	Static Bypass Switch	
55.14	Manual Operated Bypass Switch with Enclosure (ABB, Schneider)	
56	INPUT	
56.1	Voltage range: 380VAC \pm 15% three phase + Neutral + Earth or better.	
56.2	Input frequency range: 50Hz-60Hz (selectable) or better	
56.3	Harmonic distortion: <4% or better	
57	OUTPUT	



57.1	Voltage: 380vac \pm 2%three phase + Neutral or better
57.2	Power factor: 1.0
57.3	Output frequency range: 50Hz \pm 1% synchronous with utility or generator / 50Hz \pm 0.5% battery mode or better
57.4	Normal mode efficiency: 90% or better
57.5	Economy mode efficiency: 95% or better
57.6	Overload operation: at 125% load 10min, at 150% load 1min or better
57.7	Harmonic distortion: <3% (linear load), < 6% (non-linear load) or better
58	PROTECTIONS
58.1	IP20 protection class or better
58.2	Input voltage out of tolerance safety
58.3	Input phase failure protection
58.4	Output voltage out of tolerance protection
58.5	Output phase failure protection
58.6	Output overload protection
58.7	Failure due to overheating protection
58.8	Output short circuit protection
59	BATTERIES
59.1	Internal/External 12Volts sealed lead acid maintenance free batteries must be from the same manufacturer
59.2	Should have variable charger current
59.3	Should have 0ms transfer time to battery
59.4	Should have 0ms transfer time to bypass
59.5	5minutes to 8minutes backup or more
59.6	Battery Cabinet must be included
60	PARALLEL / REDUNDANT OPERATION
60.1	Must have autosensing for disconnection of parallel cable
60.2	Must have equal current share between parallel units via DSP (Digital Signal Processor)
60.3	All parallel systems should be able to be controlled from one control panel of a ups
60.4	Must have isolated parallel cards
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61	CERTIFICATIONS
61.1	ISO 9001, ISO 14001 and ISO 18001
61.2	EN 62040-3
61.3	EN 62040-2, EN 62040-1 & EN 60950
61.4	CE marked
62	WARRANTY
62.1	5 years for UPS
62.2	2 years for Batteries
62.3	Warranty will start after installation, commissioning and handover of UPS Systems. The
63	COUNTRY OF MANUFACTURING & ORIGIN
63.1	USA/UK/EUROPE/JAPAN
63.2	Bidder will be responsible of complete installation and demonstration



64	SYSTEM RESPONSIBILITY (APPLICABLE TO ALL UPS UNITS)	
64.1	The complete UPS units shall be supplied by the OEM's authorized dealer only.	
65	WARRANTY (APPLICABLE TO ALL UPS UNITS)	
65.1	<ul style="list-style-type: none"> ▪ 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. ▪ Running hours shall not be a limiting factor for the system warranty by either the manufacturer or servicing Dealer. ▪ Submittals received without written warranties as specified will be rejected in their entirety. 	
66	PARTS AND SERVICE QUALIFICATION (APPLICABLE TO ALL UPS UNITS)	
66.1	<ul style="list-style-type: none"> ▪ Service Facility 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 UPS 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. ▪ Service Personnel The dealer shall maintain qualified factory trained service personnel. 	
67	PARTS AND SERVICE QUALIFICATION (APPLICABLE TO ALL UPS UNITS)	
67.1	<ul style="list-style-type: none"> ▪ 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: <ol style="list-style-type: none"> 1. 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. ▪ Operation and Maintenance Manuals 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. 	



	<ul style="list-style-type: none"> ▪ 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	
	Site planning <ul style="list-style-type: none"> ▪ 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. 	
	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)	
	Vendor must also enclose a soft copy on CD/USB in addition to hard copy for technical evaluation committee	
	Only OEM Dealers in Pakistan or manufacturer are eligible to participate	
	Pricing of optional configuration and post warranty terms should be quoted separately.	
	Pricing of optional configuration with accessories and services should be quoted separately.	
	Technical evaluation will be based on the standard configuration with accessories of the whole unit.	
	Commercial evaluation will be based on the standard configuration with accessories of the whole unit.	
	The bidder must indicate the number of UPS Rating installed within Pakistan especially in health sector and letter of satisfaction from the end user.	
	Quality Safety Standards:	
	Country of Manufacture and origin should be USA/UK/Europe/Japan and equipment approval of their respective quality standards is mandatory.	



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

EVALUATION CRITERIA DOCUMENT

(To be Filled and submitted as Technical Bid)



INSTRUCTIONS TO APPLICANTS

1. Submission of Applications

- 1.1 The name and mailing address of the Applicant shall be clearly marked left hand on the envelope.
- 1.2 All the information must be given in English language. Information in any other language shall be accompanied by its translation in English. The Employer reserves the rights for rejection of qualification incase of non-compliance of the requirements.
- 1.3 The applicants must respond to all questions and provide complete information as advised in this document. Any lapse to provide essential information may result in disqualification of the applicant.

2 Qualification Criteria

2.1 General

Qualification will be based on all the criteria given in succeeding paras 2.2 to 2.5 regarding the applicant's general and particular experience, personnel and equipment capabilities, and financial position, as demonstrated by the applicant's responses in the forms attached to this document. The Employer reserves the right to waive minor deviations, if these don't materially affect the capability of an applicant to perform the contract. Sub-contractor's experience and resources shall not be taken into account in determining the applicant's compliance with the qualifying criteria. However, Joint Venture experience & resources shall be considered. Consortium or Association of firms will be considered for similar treatment as in case of Joint Venture.

The information submitted by applicants shall be used for determining their qualification based on criteria set out in para 2.4.

The Employer reserves the right to verify or seek clarification of the information furnished by the applicants. The Employer may reject any application for any misrepresentation knowingly made by any applicant in, or pursuant to, their application or for any statement furnished in connection therewith, and intended to be relied upon by the Employer, which is incorrect in any respect.

2.2 Preliminary Examination

All applications/documents submitted shall be checked for the following items:

1. Has the letter of application been signed?
2. Have all information asked for in Form A-1 to A-10 been provided?
3. Have all affidavits required under Form A-10 been provided and duly signed by the authorized person?
4. Have audited balance sheets from chartered accounting firm of last three years been provided?



5. In case of Joint Venture, has the JV agreement been provided and duly signed?

2.3 Initial Scrutiny

All the applicants shall be subjected to initial scrutiny using the following criteria:

1. Registration with Pakistan Engineering Council in Constructor's Category **C-3 or above** in specialization code CE10, EE04, EE05.
2. Document any evidence of UPS supplier, who should be authorized engine warranty provider and sole distributor of engine parts and services.

2.4 Detailed Evaluation

After the initial screening of all applicants, a detailed evaluation of the short-listed firms shall be undertaken using the following criteria based on the scoring system as follows:

Category	Points	
	Maximum	Minimum Acceptable
1. Financial	25	15
2. Experience	25	15
3. Personnel	20	12
4. Equipment Offered	20	12
5. Tools & Plant	10	06

To qualify, applicants must receive not less than the specified minimum acceptable points for each category and an aggregate 60 points of maximum 100 points as per following;

2.4.1 Financial

Financial Bidding Capability of an applicant will be taken as follows:

2.4.1.1 The Applicant should demonstrate that he has access to, or has available liquid assets, un-encumbered real assets, lines of credit and other financial means sufficient to meet the construction cash flow for the execution of works.

2.4.1.2 The audited balance sheets from chartered accounting firms for the last three years must be submitted and should demonstrate the soundness of the Applicant's financial position, showing long term profitability. Where necessary, the Employer will make inquiries with the Applicant's bankers.

2.4.1.3 Points shall be awarded under this category on the following criteria:



S. No.	Description	Max Points Assigned	Criteria for Points Obtained
a)	Available Bank Credit Line (Latest)	03	<ul style="list-style-type: none"> One (01) Point is given if the available bank credit line limit is equal to 15 Million. One (01) point is given for every Rs. 10 Million increase in the Credit Line. Full Points are given in case the limit is Rs. 35 Million or more.
b)	Average Working Capital in last 3 years	10	<ul style="list-style-type: none"> Three (03) Points are given if the average working capital for last three years is equal to Rs. 10 Million. One additional (01) point is given for every Rs. 3.6 Million increase in the working capital. Full Points are given in case of working capital for the last three years is Rs. 35 Million or more.
c)	Average Annual Turnover in last 3 years	10	<ul style="list-style-type: none"> Three (03) Points are given if the average annual turnover for last three years is equal to Rs. 100 Million. One (01) additional point is given for every Rs. 43 Million increase in the average annual turnover. Full Points are given in case of Average Annual Turnover for the last three years is Rs. 400 Million or more.
d)	Return for last 3 years	02	<ul style="list-style-type: none"> No points will be given if income tax return is not attached. Full points will be given in case of submission of all three years return.
Total Points Allocated			25

2.4.2 Experience Capability (Form A-3)

Information regarding similar/comparable projects **completed during last ten (10) years** shall be supported by documents such as Taking Over/Completion Certificate, Maintenance / Defects Liability Certificate and any other relevant document. Points shall be awarded under this category based on the following criteria:

Experience	Points
One project of cost Rs. 200 million or more.	15
Two projects each of cost equal to Rs. 200 million or more.	25
Maximum Point	25



2.4.3

Personnel (From A-4 & A-5)

Personnel will be evaluated on the basis of following points:

Key Personnel	Points (maximum)
1. Project Manager	15
2. Site Engineer	5

(Information regarding education qualification, total work experience and specific work experience is to be supported by documents such as copy of education certificate/degree and CVs of concerned personal propose for the above position duly signed and any other relevant documents).

Points for personnel will be given on the basis of the following criteria:

2.4.3.1 Project Manager (must be a HEC Recognized University Engineering Degree holder in Electrical Engineering)

Description	Points
Total work Experience (years)	
More than 20	9.0
+15-20	7.0
+10-15	5.0
Less than 10	3.0
Specific Experience (years)	
More than 10	6.0
+08-10	4.0
+05-08	2.0
Less than 05	1.0

2.4.3.2 Site Engineer

Description	Points
Total work Experience (years)	
More than 10	5.0
05-10	2.0
Less than 05	1.0

2.4.4

Equipment Offered (Form A-6)

The applicant should provide accurate information on the major equipment offered as per the specified requirement (Form A-6). The applicant must adhere to the required/specified data as listed in the Technical Data Sheets and Specifications being the minimum required to qualify the equipment being offered.



2.4.5 Equipment Capability (Form A-9)

The applicant shall own, or have assured access to (through rental, lease, purchase agreement or other means), the following key equipment (limited to only major items of equipment) in full working order and must demonstrate that, based on known commitments, these will be available for deployment on the proposed contract or works. (Form A-9) The applicant may also list alternative equipment which he would propose for the contract together with an explanation of the alternate proposal.

Equipment Type & Characteristics	Marks
Safety Helmets/Gloves/Body Harness/Spectacles/Shoes/Cones	1.0
Welding Plant (3, 2 & 1 Phase) Heavy Duty	1.0
Gas Cutting Sets	1.0
Arc Welding Units	1.0
Chain Block 1, 3, 5, 8 Tons	1.0
Safety Sign Instructions/Work Sign Instructions	0.5
Drill Machines (Heavy/Portable)	0.5
Power Grinder	0.5
Auto Cutter	0.5
Fabrication Tools	0.5
Machine Shop Tools	0.5
Ladder/Scaffolding	0.5
Volt Meter	0.5
Smoke Tester	0.5
Erection & Maintenance Tools	0.5
Maximum Points	10

2.5. Litigation History

The applicant should provide accurate information on any litigation or arbitration resulting from contracts completed or under execution over the last five years. A consistent history of award against the applicant or any partner of a joint venture may result in rejection of the application.

2.6 Joint Venture (JV)

2.6.1 Joint Venture must comply with the following requirements:-

- a) The joint venture must collectively satisfy the criteria give in paras 2.4.1 to 2.4.4 for which purpose the relevant figures for each of partners shall be added together to arrive at the JV's total capacity.



b) Bid shall be signed by all members in the JV so as to legally bind all partners, jointly and severally, and any bid shall be submitted with a copy of the JV agreement providing the joint and several liability with respect to the contract.

2.6.2 The qualification of a JV does not necessarily prequalify any of its partners individually or as a partner in any other JV or association. In case of dissolution of a JV, each one of the constituent firms may qualify if they meet all the qualification requirements and any partner of J.V has requested/shall request for the same and then his qualification shall be subject to the written approval of the Employer.

2.7 Conflict of Interest

The applicant (including all members of a JV) must not be associated, nor have been associated in the past, with the consultant or any other entity that has prepared the design, specifications, and other qualification and bidding documents for the project, or was proposed as Engineer for the contract, over the last five years. Any such association may result in disqualification of the applicant.

2.8 Other Factors

2.8.1 A firm or a member of a JV may participate only in one bid for the contract. If a firm submits more than one bid, singly or as a JV, all bids including that bidder will be rejected. This rule will not apply in respect of bids which include specialist sub-contractors who are used by more than one bidder.

2.8.2 The Employer reserves the right to:-

- a) amend the scope and value of any contract(s) to be bid,
- b) Reject or accept any application without assigning any reason there of and it will not be challenged in any court of law; and
- c) Cancel the qualification process and reject all applications.

2.8.3 The Employer shall neither be liable for any such actions nor be under any obligation to inform the applicant of the grounds for rejection, however, may be debriefed if solicited.



Letter of Application

[Letterhead paper of the applicant, or partner responsible for a joint venture, including full postal address, telephone no., fax no., telex no., cable and e-mail address]

Date:.....

To: Jinnah Postgraduate Medical Centre, Karachi,
Rafiqui Shaheed Road,
Karachi-75510
Tel: 021-35211875-6

Sir,

1. Being duly authorized to represent and act on behalf of

(hereinafter "the Applicant"), and having reviewed and fully understood all the qualification information provided, the undersigned hereby apply to be qualified as a bidder for _____ (Project Name) _____

2. Attached to this letter are copies of original documents defining 1:

- (a) the applicant's legal status;
- (b) the principal place of business; and
- (c) the place of incorporation (for applicants who are corporations); or

the place of registration and the nationality of the owners (for applicants who are partnerships or individually-owned firms).

3. Your agency and its authorized representatives are hereby authorized to conduct any inquiries or investigations to verify the statements, documents, and information submitted in connection with this application, and to seek clarification from our bankers and clients regarding any financial and technical aspects. This letter of application will also serve as

1

For applications by joint ventures, all the information requested in the Evaluation Criteria is to be provided for the joint venture, if it already exists, and for each party to the joint venture separately. The lead partner should be clearly identified. Each partner in the joint venture shall sign the letter.



authorization to any individual or authorized representative of any institution referred to in the supporting information, to provide such information deemed necessary and requested by yourselves or the authorized representative to verify statements and information provided in this application, or with regard to the resources, experience, and competence of the applicant.

4. Your agency and its authorized representatives may contact the following persons for further information², if needed.

General and Managerial Inquiries	
Contact 1	Telephone 1
Contact 2	Telephone 2

Personnel Inquiries	
Contact 1	Telephone 1
Contact 2	Telephone 2

Technical Inquiries	
Contact 1	Telephone 1
Contact 2	Telephone 2

Financial Inquiries	
Contact 1	Telephone 1
Contact 2	Telephone 2

5. This application is made with the full understanding that:
- (a) bids by qualified applicants will be subject to verification of all information submitted for qualification at the time of bidding;
 - (b) your Agency reserves the right to:
 - (i) amend the scope and value of any contract under this project;
 - (ii) reject or accept any application, cancel the qualification process, and reject applications; and
 - (c) your agency shall not be liable for any such actions and shall be under no obligation to inform the applicant of the grounds for actions at 5(b) hereabove.

2

Application by joint ventures should provide information on a separate sheet information for each party to the application.



- (d) your agency shall not be liable for consequence of, and shall be under no obligation to inform the applicant of the grounds for, actions taken under para 5(b) here above.

Applicants who are not joint ventures should delete para 6&7 and initial the deletions.

6. Appended to this application, we give details of the participation of each party, including capital contribution and profit/loss agreements, to the joint venture or association. We also specify the financial commitment in terms of the percentage of the value of the (each) contract, and the responsibilities for execution of the (each) contract.
7. We confirm that in the event that we bid, that bid as well as any resulting contract will be.
- (a) Signed so as to legally bind all partners, jointly and severally; and
- (b) submitted with a Joint Venture agreement providing the joint and several liability of all partners in the event the contract is awarded to us.
8. The undersigned declare that the statements made and the information provided in the duly completed application are complete, true, and correct in every detail.

Signed	Signed
Name	Name
For and on behalf of (name of Applicant or lead partner of a joint venture)	For and on behalf of (name and signature of other partners of the joint venture)



General Information

All individual firms and each partner of a joint venture applying for qualification are requested to complete the information in this form. Nationality information is also to be provided for foreign owners or applicants who are forming part of the Joint Ventures.

Where the applicant proposes to use named subcontractors for critical components of the works or for work contents in excess of 10 percent of the value of the whole works, the following information should also be supplied for the specialist subcontractor(s).

1.	Name of Firm	
2.	Head Office Address	
3.	Telephone	Contact Person: Name: Title:
4.	Fax	Telex
5.	Place of Incorporation/Registration	Year of incorporation/registration

NATIONALITY OF OWNERS		
	NAME	NATIONALITY
1.		
2.		
3.		
4.		
5.		



Joint Venture Summary

Names of all Partners of a Joint Venture	
1. Lead Partner	
2. Partner	
3. Partner	
4. Partner	
5. Partner	
6. Partner	

Total value of annual construction turnover, in terms of work billed to clients,

Annual Turnover Data (Construction only; Equivalent in Pak Rupees, Millions)			
Partner	2015	2014	2013
1. Lead Partner			
2. Partner			
3. Partner			
4. Partner			
5. Partner			
6. Partner			
Total:			



Details of Contracts of Similar Nature and Complexity

Name of applicant or partner of a joint venture

Use a separate sheet for each contract.

1.	Name of Contract
	Country
2.	Name of Employer
3.	Employer Address
4.	Nature of works and special features relevant to the contract for which the Applicant wishes to prequalify
5.	Contract Role (Tick One) (a) Sole Contractor (b) Sub-Contractor (c) Partner in a Joint Venture
6.	Value of the total contract (in specified currencies) at completion, or at date of award for current contract Currency..... Currency..... Currency.....
7.	Equivalent in Pak/Rs.
8.	Date of Award
9.	Date of Completion
10.	Contract Duration (Years and Months) _____ Years _____ Months
11.	Specified Requirements 1

1
Insert any specific criteria required for particular operations, such as annual volume of earthmoving, underground excavation, or placing concrete etc.



Personnel Capabilities

<i>Name of applicant</i>

For specific positions essential to contract implementation, applicants should provide the names of at least two candidates qualified to meet the specified requirements stated for each position. The data on their experience should be supplied on separate sheets using one form for each candidate (application form A-5).

1.	Title of Position
	Name of Prime Candidate
	Name of Alternate Candidate
2.	Title of Position
	Name of Prime Candidate
	Name of Alternate Candidate
3.	Title of Position
	Name of Prime Candidate
	Name of Alternate Candidate
4.	Title of Position
	Name of Prime Candidate
	Name of Alternate Candidate



Candidate Summary

<i>Name of Applicant</i>

Position		Candidate [Tick appropriate one]
		<input type="checkbox"/> Prime <input type="checkbox"/> Alternate
Candidate information	1. Name of Candidate	2. Date of Birth
	3. Professional Qualification	
Present employment	4. Name of Employer	
	5. Address of Employer	
	Telephone	Contact (manager/personnel officer)
	Fax	Telex
	Job title of candidate	Years with present employer

Summarize professional experience over the last 20 years, in reverse chronological order. Indicate particular technical and managerial experience relevant to the Project.

Month/ Dates/Years		Company / Project / Position / Relevant technical and management experience
From	To	



Financial Capability

Name of Applicant or Partner of a Joint Venture

Applicants, including each partner of a joint venture, should provide financial information to demonstrate that they meet the requirements stated in the instructions to applicants. Each applicant or partner of a joint venture must fill-in this form. If necessary, use separate sheets to provide complete banker information. A copy of the audited balance sheets should be attached.

Banker	Name of banker	
	Address of banker	
	Telephone	Contact name and title
	Fax	Telex

Summarize actual assets and liabilities in Pak Rupees (Equivalent at the current rate of exchange at the end of each year) for the previous three years, based upon known commitments, projected assets and liabilities in Pak Rupees equivalent for the next two years.

Financial information in Pak Rs. Or equivalent	Actual Previous Three year		
	June 30, 2015	June 30, 2014	June 30, 2013
1. Total assets			
2. Current assets			
3. Total liabilities			
4. Current liabilities			
5. Profits before taxes			
6. Profits after taxes			



Specific proposed sources of financing to meet the cash flow of the Project, net of current commitments (Instructions to Applicants, para 2.4.13).

Source of financing	Amount (Pak Rs. or equivalent)
1.	
2.	
3.	
4.	

Attach audited financial statements for the last three years (for individual applicant or each partner of joint venture).

Firms owned by individuals, and partnerships, may submit their balance sheets certified by a registered accountant, and supported by copies of tax returns, if audits are not required by the laws of their countries of origin in case of foreign firms.



Equipment Capabilities

Name of Applicant

The applicant shall provide adequate information to demonstrate clearly that he has the capability to meet the requirements for each and all items of equipment listed in the Instructions to applicants. A separate form shall be prepared for each item of equipment listed in para 2.4.5 of the Instructions to applicants.

Item of Equipment		
Equipment information	1. Name of manufacturer	2. Model and power rating
	3. Capacity	4. Year of manufacture
Current status	5. Current location	
	6. Details of current commitments	
Source	7. Indicate source of the equipment <input type="checkbox"/> Owned <input type="checkbox"/> Rented <input type="checkbox"/> Leased	

Omit the following information if it is owned by the Applicant or partner.

Owner	8. Name of owner	
	9. Address of owner	
	Telephone	Contact name and title
	Fax	Telex
Agreement	Details of rental/lease specific to the Project.	



Additional Information

Name of Applicant or partner of a joint venture

Additional Information

1. Certificate of Registration with Pakistan Engineering Council.
2. Certificate of registration with Income Tax Department in Pakistan and Income Tax Return for the last three years.
3. An affidavit to the effect that the Applicant has never been black-listed by the government /Semi government or any autonomous body.
4. An affidavit to the effect that all documents / particulars / information given with this qualification document are true. **Disqualification of Supplier and Contractors**, "The Procuring agency shall disqualify a supplier or contractor if it finds, at anytime, that the information submitted by him concerning his qualification as supplier or contractor was false and materially inaccurate or incomplete."
5. An affidavit to the effect that the Applicant has never indulged in corrupt, fraudulent or collusive practice for procuring contracts.
6. An affidavit to the effect that the firm is not presently involved nor has been in the past in litigation with the Employer. Should this be otherwise the Applicant must provide such details in form A-8 "Litigation History".
7. Any other pertinent information in support of this qualification should also be furnished.



Page 40 from Excel format work sheet for Form A-6.



SUPPLY & INSTALLATION OF DIFFERENT RATINGS OF UPS SYSTEMS AS PER ANNEXURE-J1

EVALUATION SCORING CRITERIA BASED ON THE SCORING SYSTEM AS UNDER

Sr. No.	Name of the Firm along with Postal Address, Phone & Fax #	UPS OF RATING 80/60/50/40/30/20/15 kVA (Submit separate sheet for each rating/capacity)							REMARKS	
		Make	INPUT	BYPASS	OVERLOADS ON BYPASS	BATTERY	OUTPUT	OVERLOAD TIMES		VARIOUS
			10	15	15	15	15	10	20	MINIMUM QUALIFYING MARKS ARE 60%
1										
2										
3										
4										
5										



SCHEDULE - J1

UPS TECHNICAL DATA (to be submitted by the bidder)

(Note: Submit separate sheets of technical data for each type/size of UPS)

UPS Rating kVA

INPUT

Number of phases	Phase
Nominal Voltage	Volts
Maximum Input tolerance for non-intervention of battery	Percentage
Nominal Frequency (Auto-sensing)	Hz
Power Factor	

BY-PASS

Maximum acceptance tolerance for mains switching	%
Configuration of voltage tolerance (from control panel)	%
Maximum frequency tolerance accepted for switching	%
Configuration of configurable frequency tolerance (from control panel)	%
Switching time in Line interactive mode (by -pass/inverter and vice versa)	ms
Protection against mains back feed	Yes/No

OVERLOADS ON BY-PASS (xIn)

1s	min
10 ms	min
Efficiency	%

BATTERY

Type of battery	Seal-Maintenance-free lead acid
Interventional time (mains failure)	0mS
Nominal power supplied	kW
Compensation of battery voltage with temperature	2mV/C per element

OUTPUT

Number of phase	single phase
Nominal Voltage	220V
Field of regulation of the phase/neutral voltage (from control panel)	V
Wave form	sine wave
Frequency	50Hz
Operation as frequency converter	yes
Operation as back-up unit (load powered only if mains absent)	yes
Current peak factor (as per standard EN50091-3)	3:1

Nominal Power	6.250 kVA
Nominal Power	5 kW
Static Variation	<1 %
Dynamic Variation (with load impact from 0 to 100%)	<5 %



Output frequency variation with mains absent	+/-1	%
Output frequency variation with mains present	2	%
Output frequency variation (from mimic panel)	%	
Voltage distortion (linear load)	<3	%
Voltage distortion (non-linear load)	<5	%

OVERLOAD TIMES (from inverter)

100%<Load<110%	hrs
110%<Load<125%	1min
125%<Load<150%	20 sec
Short circuit current (t<0.5 sec)	200 %
Short circuit current (phase/neutral)	2.8 In(min)
Short circuit current (phase/phase)	-----

VARIOUS

A/C/AC efficiency (double conversion mode)	90%
A/C/AC efficiency (Line interactive mode)	%
Maximum permanent operating temperature	0~40 C
Relative humidity	95 %
Noise	56 dB(A)

Mechanical characteristics	Shielded metal cabinet with applied plastic
front	
Level of ingress protection	IP
Cables input	yes
Cooling	yes
Maximum permanent operating temperature	0~40 C
Humidity	<95 % (Non-
condensing)	
Maximum altitude of installation	1000 m



GOVERNMENT OF SINDH
JINNAH POSTGRADUATE MEDICAL CENTRE
KARACHI-75510

ANNUAL PROCUREMENT PLAN

For the Purchase of Machinery & Equipment under (Revenue Component) in respect of ADP development Scheme "Provision of Equipment for Surgical Complex at Jinnah Postgraduate Medical Centre, Karachi" during financial year 2016-17.

S#	Description of Procurement	Quantity (Where applicable)	Estimated Unit Cost As per PC-1 (Million)	Funds allocated (Million)	Source of Funds (ADPs Non ADPs)	Proposed Procurement Method	Timing of Procurement				Remarks
							1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
1.	1500 kVA Generating Set each including electric panels, UPS panels, accessories etc.	02	90.00 Million	90.00 Million	ADP	Tender SPPRA 46(2)				April-June 2017	
2.	UPS for all medical equipment including theater total capacity 625 kVA	Nos.	35.00 Million	35.00 Million	ADP	Tender SPPRA 46(2)				April-June 2017	
3.	Electric supply company connection and Substation transformers 1500 kVA	02	21.2 Million	21.200 Million	ADP	Tender SPPRA 46(2)				April-June 2017	



(DR. YAHYA KHAN)
DEPUTY DIRECTOR