

Daily Business  
Recorder  
Date - 24/02/2026

**DIRECTORATE GENERAL HEALTH SERVICES SINDH HYDERABAD**

Phone # 022-9240106 (E-mail: [dghealthsindh@sindh.health.pk](mailto:dghealthsindh@sindh.health.pk))

NO: DGHSS/G-I (ADP-2025-26 for procurement)- 6834 Dated 23-02-2026

**NOTICE INVITING TENDER**

The Director General Health Services Sindh Hyderabad invite e-bids through E-Pak Acquisition and Disposable System (EPADS) from Suppliers / firms / Manufacturers / Importers / Authorized Distributors on Active Taxpayers List of the FBR / SRB (whichever is applicable) for supply of Medical Equipment's Machinery/ Instruments/Furniture & Fixture Utensil and Linen under following ADP scheme for the financial year 2025-26 & 2026-2027 under Rule-46(2) Single Stage- Two Envelops Procedure. Bidding documents containing detailed Terms & Conditions, can be Viewed / downloaded from <https://portalsindh.eprocure.gov.pk/#/>.

Electronic Bids should be submitted through EPADS ONLY, Manual bid shall not be received. Interested Bidders are required to register themselves on EPAD System at the link: <https://sindh.eprocure.gov.pk/#/> supplier/registration for submission of electronic-bids.

The Bids, prepared in accordance with the instructions in the bidding documents, must be submitted on EPADS by 16-03-2026 at 10.00 A.M. The original instrument of tender fee mentioned in the below table and original instrument of fixed bid security as required of tender in bidding documents for each quoted items must reach to the procuring agency up-to the deadline. Bids will be opened on the same day at 11.00 A.M. at the address @ Board Room, 5th Floor, Jinnah Sindh Medical University (JSMU) Karachi.

| S.# | ADP# | DESCRIPTION                                                                   | NAME OF ADP SCHEME                                                                                                                  | TENDER FEE | BID SECURITY                             |
|-----|------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------|
| 01  | 1023 | Procurement of Machinery / Equipments / Furniture/ Fixture/ Utensil and Linen | Up-gradation of THQ Hospitals to the level of DHQ Hospitals (03 Nos) at Tando Muhammad Khan, Tando Allahyar & Jamshoro (Re-revised) | 3,000      | Fixed bid security as required of tender |
| 02  | 1024 | Procurement of Machinery / Equipments / Furniture/ Fixture                    | Expansion & Improvement of DHQ Hospitals (03 Nos) at Kharpur, Badin & Shikarpur (Re-revised)                                        | 3,000      | Fixed bid security as required of tender |
| 03  | 1026 | Procurement of Machinery / Equipments / Furniture/ Fixture                    | Up-gradation of THQ to the level of DHQ Hospitals (3 Nos.) Mafian, Kambar and Umerkot (Re-revised)                                  | 3,000      | Fixed bid security as required of tender |

**N.B:-** Any query for e-bidding may contact to Directorate General Health Services Sindh Hyderabad on contact No. 022-9240101 & 022-9240106.

1. In case Govt. announces any Public Holiday or any unfavorable circumstances, the tender/ bids will be submitted and opened on next working day, with same Venue and Time.
2. The Purchaser reserves the right to reject any /all bids under the relevant provisions of SPP Rules 2010.
3. In case of any difficulty prospective bidders may contact EPADS Helpline 051-111-137- 237 during working days / hours.

Sd/-  
**DIRECTOR GENERAL HEALTH SERVICES SINDH HYDERABAD**

INF-KRY No. 727/2026



Daily Express

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24/02/26

## ڈائریکٹوریٹ جنرل ہیلتھ سروسز سندھ حیدرآباد

فون نمبر 022-9240106 (ای میل سبک dghealthsindh@sindhhealth.plk)

نمبر 23.02.2026 مورچہ DGHSS/G-I/(ADP-2025-26 for Procurement)/8834

### ٹینڈر طلبی نوٹس

ڈائریکٹر جنرل ہیلتھ سروسز سندھ حیدرآباد، رول (2) 46 منسلک ایچ۔ ٹی۔ اینڈ ایف کے تحت میں مالیاتی سال 2025-26 اور 2026-27 کیلئے مندرجہ ذیل ایسے ڈی پی ایم کے تحت میڈیکل ایکویپمنٹ، مشینری/انسٹرومنٹس/فرنیچر/الیکٹریسیٹس اور لیٹین کی فراہمی کیلئے (جہاں قابل اطلاق ہو) ایف بی آر ایس آر بی کی فعال ٹنڈر فرسٹ پرموجہ سہ ماہی فرمیں/ایجنسیوں/پرائیویٹ اور پبلک ایڈوائز ڈسٹری بیوٹرز سے ای۔ پاک ایکویزیشن و ڈسپوزیبل سسٹم (ای پی اے ڈی ایس) کے ذریعے ای۔ پیشکشیں طلب کرتا ہے۔ مفصل قواعد و ضوابط پر مشتمل بڈنگ دستاویزات <http://portalsindh.eprocure.gov.pk/#/> سے ڈاؤن لوڈ کیا جا سکتا ہے۔

ایکٹریوڈک پیشکشیں صرف ای پی اے ڈی ایس کے ذریعے جمع کرانی چاہئیں۔ میڈیکل پیشکش وصول نہیں کی جائے گی۔ دلچسپی کے حامل ہونی وہندگان کو پیشکشیں جمع کرانے کیلئے ایک: <http://sindh.eprocure.gov.pk/supplier/registration> پر ای پی اے ڈی ایس پر اپنے آپ کو رجسٹر کرنا ضروری ہے۔

بڈنگ دستاویزات میں ہدایات کی مطابقت میں تیار کردہ پیشکشیں 16.03.2026 بوقت صبح 10:00 بجے تک ای پی اے ڈی ایس کے ذریعے لازمی جمع کرانی چاہئیں۔ مندرجہ ذیل جدول میں دستاویزات کی اصل انسٹرومنٹ اور گنڈ بڈ سکورنگ کا اصل انسٹرومنٹ جیسا کہ ہر دستاویز پر درج ہے، آخری تاریخ تک پروکوریٹنگ ایجنسی کے پاس لازمی پہنچانے چاہئیں۔ پیشکشیں اسی روز بوقت دن 11:00 بجے پور ڈوروم، پانچویں منزل، جناح سندھ میڈیکل یونیورسٹی (JSMU) کراچی کے پتے پر رکھنی چاہئیں گی۔

| نمبر شمار | ADP نمبر | تفصیل                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ADP اسکیم کا نام                                                                                                                                                                                                                                                                                                                                                                                                            | ٹینڈر فیس | بڈ سکورنگ                                  |
|-----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------|
| 01        | 1023     | مشینری/ایکویپمنٹس/فرنیچر/الیکٹریسیٹس اور لیٹین کی فراہمی کیلئے (جہاں قابل اطلاق ہو) ایف بی آر ایس آر بی کی فعال ٹنڈر فرسٹ پرموجہ سہ ماہی فرمیں/ایجنسیوں/پرائیویٹ اور پبلک ایڈوائز ڈسٹری بیوٹرز سے ای۔ پاک ایکویزیشن و ڈسپوزیبل سسٹم (ای پی اے ڈی ایس) کے ذریعے ای۔ پیشکشیں طلب کرتا ہے۔ مفصل قواعد و ضوابط پر مشتمل بڈنگ دستاویزات <a href="http://portalsindh.eprocure.gov.pk/#/">http://portalsindh.eprocure.gov.pk/#/</a> سے ڈاؤن لوڈ کیا جا سکتا ہے۔ | ایچ۔ ٹی۔ اینڈ ایف کی فراہمی کیلئے (جہاں قابل اطلاق ہو) ایف بی آر ایس آر بی کی فعال ٹنڈر فرسٹ پرموجہ سہ ماہی فرمیں/ایجنسیوں/پرائیویٹ اور پبلک ایڈوائز ڈسٹری بیوٹرز سے ای۔ پاک ایکویزیشن و ڈسپوزیبل سسٹم (ای پی اے ڈی ایس) کے ذریعے ای۔ پیشکشیں طلب کرتا ہے۔ مفصل قواعد و ضوابط پر مشتمل بڈنگ دستاویزات <a href="http://portalsindh.eprocure.gov.pk/#/">http://portalsindh.eprocure.gov.pk/#/</a> سے ڈاؤن لوڈ کیا جا سکتا ہے۔ | 3,000     | گنڈ بڈ سکورنگ جیسا کہ ٹینڈر کیلئے درکار ہے |
| 02        | 1024     | مشینری/ایکویپمنٹس/فرنیچر/الیکٹریسیٹس اور لیٹین کی فراہمی کیلئے (جہاں قابل اطلاق ہو) ایف بی آر ایس آر بی کی فعال ٹنڈر فرسٹ پرموجہ سہ ماہی فرمیں/ایجنسیوں/پرائیویٹ اور پبلک ایڈوائز ڈسٹری بیوٹرز سے ای۔ پاک ایکویزیشن و ڈسپوزیبل سسٹم (ای پی اے ڈی ایس) کے ذریعے ای۔ پیشکشیں طلب کرتا ہے۔ مفصل قواعد و ضوابط پر مشتمل بڈنگ دستاویزات <a href="http://portalsindh.eprocure.gov.pk/#/">http://portalsindh.eprocure.gov.pk/#/</a> سے ڈاؤن لوڈ کیا جا سکتا ہے۔ | ایچ۔ ٹی۔ اینڈ ایف کی فراہمی کیلئے (جہاں قابل اطلاق ہو) ایف بی آر ایس آر بی کی فعال ٹنڈر فرسٹ پرموجہ سہ ماہی فرمیں/ایجنسیوں/پرائیویٹ اور پبلک ایڈوائز ڈسٹری بیوٹرز سے ای۔ پاک ایکویزیشن و ڈسپوزیبل سسٹم (ای پی اے ڈی ایس) کے ذریعے ای۔ پیشکشیں طلب کرتا ہے۔ مفصل قواعد و ضوابط پر مشتمل بڈنگ دستاویزات <a href="http://portalsindh.eprocure.gov.pk/#/">http://portalsindh.eprocure.gov.pk/#/</a> سے ڈاؤن لوڈ کیا جا سکتا ہے۔ | 3,000     | گنڈ بڈ سکورنگ جیسا کہ ٹینڈر کیلئے درکار ہے |
| 03        | 1026     | مشینری/ایکویپمنٹس/فرنیچر/الیکٹریسیٹس اور لیٹین کی فراہمی کیلئے (جہاں قابل اطلاق ہو) ایف بی آر ایس آر بی کی فعال ٹنڈر فرسٹ پرموجہ سہ ماہی فرمیں/ایجنسیوں/پرائیویٹ اور پبلک ایڈوائز ڈسٹری بیوٹرز سے ای۔ پاک ایکویزیشن و ڈسپوزیبل سسٹم (ای پی اے ڈی ایس) کے ذریعے ای۔ پیشکشیں طلب کرتا ہے۔ مفصل قواعد و ضوابط پر مشتمل بڈنگ دستاویزات <a href="http://portalsindh.eprocure.gov.pk/#/">http://portalsindh.eprocure.gov.pk/#/</a> سے ڈاؤن لوڈ کیا جا سکتا ہے۔ | ایچ۔ ٹی۔ اینڈ ایف کی فراہمی کیلئے (جہاں قابل اطلاق ہو) ایف بی آر ایس آر بی کی فعال ٹنڈر فرسٹ پرموجہ سہ ماہی فرمیں/ایجنسیوں/پرائیویٹ اور پبلک ایڈوائز ڈسٹری بیوٹرز سے ای۔ پاک ایکویزیشن و ڈسپوزیبل سسٹم (ای پی اے ڈی ایس) کے ذریعے ای۔ پیشکشیں طلب کرتا ہے۔ مفصل قواعد و ضوابط پر مشتمل بڈنگ دستاویزات <a href="http://portalsindh.eprocure.gov.pk/#/">http://portalsindh.eprocure.gov.pk/#/</a> سے ڈاؤن لوڈ کیا جا سکتا ہے۔ | 3,000     | گنڈ بڈ سکورنگ جیسا کہ ٹینڈر کیلئے درکار ہے |

نوٹ: برائے ای۔ بڈنگ، کسی قسم کے استفسار کیلئے ڈائریکٹوریٹ جنرل ہیلتھ سروسز سندھ حیدرآباد سے رابطہ نمبر 022-9240101 اور 022-9240106 پر رابطہ کیا جا سکتا ہے۔

1- حکومت کی جانب سے کسی عام تھیل کے اعلان یا ناگزیر وجوہات کی صورت میں ٹینڈر پیشکشیں ای۔ وقت اور مقام پر آئندہ کام والے دن جمع کرانے اور کھولے جائیں گے۔

2- خریدار ایس بی پی روڈ 2010 کی مختلف شوقوں سے مشروط کسی اتمام پیشکشوں کو مسترد کرنے کا حق محفوظ رکھتا ہے۔

3- کسی قسم کی دشواری کی صورت میں، ٹنڈر ہونی وہندگان دوران ایام کارا اوقات ای پی اے ڈی ایس ہیڈ لائن 051-111-137-237 سے رابطہ کر سکتے ہیں۔

ڈائریکٹر جنرل

ہیلتھ سروسز سندھ حیدرآباد

INF/KRY/0727/2026

WORK FOR SINDH



# GOVERNMENT OF SINDH HEALTH DEPARTMENT

## NOTIFICATION

No.SO(PM&I)2-1/2022-23(Main)/PC: In supersession of this Department's Notification of even number dated: 20.07.2022, 18.10.2023, 03.11.2023 & 04.01.2024 and with the approval of Hon'ble Chief Minister Sindh vide CMIT Summary, the Health Department's Procurement Committee (PC) for procurement of Drug/Medicines, Surgical/Disposable items, X-Ray Films / Chemicals, Machinery Equipments, Furniture / Fixture (etc.) is hereby re-notified as under:

|    |                                                                                                                |                       |
|----|----------------------------------------------------------------------------------------------------------------|-----------------------|
| 1. | Professor Dr. Amjad Siraj Memon,<br>Vice Chancellor, Jinnah Sindh Medical University (JSMU), Karachi.          | Chairman              |
| 2. | Vice Chancellor, Liaquat University Medical & Health Sciences (LUMHS), Jamshoro.                               | Member                |
| 3. | Vice Chancellor, Peoples University of Medical & Health Sciences for Women,<br>Nawabshah-Shaheed Benazirabad.  | Member                |
| 4. | Vice Chancellor, Shaheed Mohtarma Benazir Bhutto Medical University Larkana.                                   | Member                |
| 5. | Prof. Dr. Sajida Qureshi, Professor of Surgery, DUHS / Dr. Ruth K.M. Pfau CHK.                                 | Member                |
| 6. | Chairman, Health Care Commission Sindh.                                                                        | Member                |
| 7. | Special Secretary, Chief Minister's Inspection, Enquiries & Implementation Team<br>Department, Govt. of Sindh. | Member                |
| 8. | Additional Secretary (GA), SGA&CD, Govt. of Sindh.                                                             | Member                |
| 9. | Additional Secretary (PM&I), Health Department, Govt. of Sindh.                                                | Member /<br>Secretary |

### TOR's:

- Preparing and /or reviewing bidding documents;
- Carrying out technical as well as financial evaluation of the bids;
- Preparing evaluation report as provided in Rule 45;
- Making recommendations for the award of contract to the Competent Authority.
- Monitoring of the procured medicines with regard to their quality and genuiness.
- The Committee shall be authorised to have vigilance on distribution of the supply to different Hospitals including all health facilities.
- The Committee would be empowered to Co-opt. Expert(s) incase the committee desires any assistance in any specific/relevant fields.
- The committee shall have all the powers to procure the medical/surgical equipments, machines and furniture or any other item to be installed and / or fixed within the Hospital in Sindh province at any level whether Tertiary, District & Taluka Hospitals.
- The powers of the Procurement Committee would extend to all the projects under the Health Department for procurement of medicines, furniture, instruments & machines etc.
- Perform any other function ancillary and incidental to the above;

**SECRETARY HEALTH**

Karachi, dated: 29<sup>th</sup> January 2024

No. SO(PM&I)2-1/2022-23(Main)/PC:

### C.C. to:

- The Chairman and all Members of the Committee.
- The Accountant General Sindh, Karachi.
- The Managing Director, Sindh Public Procurement Regulatory Authority, Karachi.
- The PS to Chairman, CMIE&ITD Karachi.
- The PS to Chairman, Health Care Commission Sindh.
- The PS to Special Secretary, CMIE&ITD, Karachi.
- The Deputy Secretary (Staff) to Chief Minister Sindh / Chief Secretary Sindh.
- The PS to Minister Health, Social Welfare and Public Health Engineering Dept. Sindh, Karachi.
- The PS to Secretary Health, Govt. of Sindh, Karachi.
- The PS to Addl. Secretary (PM&I), Health.



  
(ZULFIQAR ALI DARS)  
SECTION OFFICER (PM&I)



## NOTIFICATION

No. SO(PM&I)2-1/2022-23/PC(TEC-III): In supersession to this department's notification of even number dated: 13.10.2023, on recommendation of Health Procurement Committee (HPC) and with the approval of worthy Secretary Health, the Experts Committee for Machinery / Equipment / Lab. Equipment / Furniture & Fixture etc. is hereby re-constituted with the following composition and ToRs:

|      |                                                                                                     |          |
|------|-----------------------------------------------------------------------------------------------------|----------|
| i.   | Dr. Shahid Pervez, Histopathologist, Aga Khan University Hospital Kyc.                              | Chairman |
| ii.  | Dr. Benish Sultan, Associate Professor & Head of Pathology Lab, JSMU, Karachi.                      | Member   |
| iii. | Prof. Dr. Tariq Mehmood, Representative of PAF, JPMC, Karachi.                                      | Member   |
| iv.  | Dr. Syed Farjad Sultan, Associate Professor, Anaesthesia Department, DUHS / Civil Hospital Karachi. | Member   |
| v.   | Prof. Dr. Sajida Qureshi, Professor of Surgery, DUHS / Dr. Ruth K.M. Pfau Civil Hospital Karachi.   | Member   |
| vi.  | Prof. Dr. Syed Mahmood Hassan, Professor of Pathology, JSMU, Karachi.                               | Member   |
| vii. | Dr. Shoaib Malik, Associate Professor, Anesthesia Department, JPMC Karachi.                         | Member   |

### TORs:

- To revisit and approve proposed specifications of Machinery / Equipment etc. prepared by the Technical Committee.
- To approve bidding documents prepared by Technical Committee along-with verification / certification of technical evaluation reports finalized by Technical Committee.
- The committee will also check the samples as per given specification in the tender document (wherever applicable).
- To submit final recommendation to the Procurement Committee within seven (07) days for approval.

**SECRETARY HEALTH**

No. SO(PM&I)2-1/2022-23/PC(TEC-III):

Karachi, dated the 18<sup>th</sup> February 2025

### A copy is forwarded for information & necessary action to:-

- The Chairman, Health Procurement Committee / VC, JSMU, Karachi.
- The Chairman and all members of the Experts Committee.
- PS to Minister Health, Social Welfare and Public Health Engineering Dept. Sindh, Karachi.
- PS to Secretary Health.



(ZULFIQAR ALI DARS)  
SECTION OFFICER (PM&I)



## NOTIFICATION

No. SO(PM&I)2-1/2022-23/PC(TEC-II): In supersession to this Department's Notification of even number dated: 15.08.2022, on the recommendation of the Chairman, Health Department's Procurement Committee, Technical Experts Committee for Machinery / Equipment is hereby re-constituted comprising on following, to assist the Health Procurement Committee for preparation of bidding documents and evaluation of tender of companies / bidders for purchase of Machinery / Equipment / Furniture etc. for the year 2022-23:

|    |                                                                                     |
|----|-------------------------------------------------------------------------------------|
| a. | Mr.S.Zamir Hussain Shah,Bio Medical Engineer,Dr.Ruth K.M.Pfau Civil Hosp. Kar.      |
| b. | Mr. Abdul Majid, Electrical Engineer, NICH, Karachi.                                |
| c. | Mr. Qazi Muhammad Amir, Bio-medical Technician, Elector-medical Workshop.           |
| d. | Mr. Sunny Mohiuddin, Dy. Director (Procurement),Directorate of Pharmacy,Sindh, Kar. |
| e. | Mr. Rajeev, Pharmacist, Dr. Ruth K.M. Pfau Civil Hospital Karachi.                  |

### ToRs:

- To prepare bidding documents, Specifications and Evaluation Criteria.
- To review existing formulary list and segregate into seven (07) Therapeutic Groups and submit to technical experts / leading professors of respective therapeutic groups for approval.
- To carry out scrutiny of submitted bidding documents.
- To prepare Bid Qualification Report (BQR), Bid Evaluation Report (BER) and submit to respective therapeutic groups experts for review and approval.
- To prepare financial comparative statement and final Bid Evaluation Report (BER) and get endorsement from respective experts of therapeutic groups before final approval by Health Department Procurement Committee.
- To submit scrutinized working to Experts Committee constituted for Machinery / Equipment / Furniture / Fixture & Lab Equipment etc.

**SECRETARY HEALTH**

No. SO(PM&I)2-1/2022-23/PC(TEC-II):

Karachi, dated the 01<sup>st</sup> February 2023

### A copy is forwarded for information & necessary action to:-

1. The Chairman, Health Procurement Committee / VC, JSMU, Karachi.
2. The Executive Director, NICH, Karachi.
3. The Medical Superintendent, Dr. Ruth K.M.Pfau Civil Hospital Karachi.
4. All members of the Technical Experts Committee (Machinery / Equipment).
5. The P.S. to Secretary Health.



  
(ZULFIQAR ALI DARS)  
SECTION OFFICER (PM&I)



**GOVERNMENT OF SINDH  
HEALTH DEPARTMENT**

**NOTIFICATION**

No.SO(PM&I)2-1/2013/CRC): In supersession of this department's notification of even number dated: 09.01.2023 and in pursuance of Rule-31 of Sindh Public Procurement Rules 2010, Health Department, Govt. of Sindh is pleased to re-constitute Complaint Redressal Committee (CRC) comprising of following officers for scrutinizing the complaints of aggrieved bidders against tender invited by the Health Procurement Committee, Health Department under Frame Work Contract System and Health Institutions/Hospitals of Sindh Province :-

|    |                                                      |          |
|----|------------------------------------------------------|----------|
| 1) | Secretary Health, Govt. of Sindh                     | Chairman |
| 2) | Representative of Accountant General Sindh, Karachi. | Member   |
| 3) | Independent professional from the relevant field.    | Member   |

**ToR's:**

- To scrutinize the complaints received from the aggrieved bidders and decide the same strictly in accordance with SPP Rules 2010.

***SECRETARY HEALTH***

No.SO(PM&I)2-1/2013/CRC):

Karachi, dated, the 10th July, 2024

**Copy forwarded for information and necessary action to :**

- The Chairman and all members of Health Procurement Committee.
- The Accountant General Sindh, Karachi.
- The Managing Director, Sindh Public Procurement Regulatory Authority Karachi.
- The Medical Superintendents (All).
- The District Health Officers (All).
- The Directors Health Institutions / Projects (All).
- The Chairman and all members of Complaint Redressal Committee.
- PS to Minister Health & Population Welfare Deptt., Govt. of Sindh, Karachi.
- PS to Secretary Health Govt. of Sindh, Karachi.
- PS to Additional Secretary (PM&I), Health Department, Govt. of Sindh, Karachi.



  
(ZULFIQAR ALI DARS)  
SECTION OFFICER (PM&I)



OFFICE OF THE DIRECTORATE GENERAL HEALTH SERVICES SINDH, HYDERABAD

PHONE NO. 022-9240101-022-9240106 FAX NO. 022-9040100

ANNUAL TENTATIVE PROCUREMENT PLAN FOR PROCUREMENT OF MEDICAL EQUIPMENT / MACHINERY/ INSTRUMENTS/  
FURNITURE/FIXTURE / UTENSIL AND LINEN UNDER ADP FOR THE FINANCIAL YEAR 2025-26

| S. # | Title of Procurement                                                                           | Name of Schemes                                                                                                                                | Estimated Cost | Procurement Method       | Tentative time of procurement |         |         |         | Remarks (if Any)                                             |
|------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|-------------------------------|---------|---------|---------|--------------------------------------------------------------|
|      |                                                                                                |                                                                                                                                                |                |                          | 1st Qtr                       | 2nd Qtr | 3rd Qtr | 4th Qtr |                                                              |
| 1    | Procurement of Medical Equipment /Machinery /Instruments Furniture/ Fixture/ Utensil and Linen | Up-gradation of THQ Hospitals to the level of DHQ Hospitals (03 Nos) at Tando Muhammad Khan, Tando Allahyar & Jamshoro (Re-revised)ADP No.1023 | 358.205 (M)    | Open competitive Bidding | -                             | -       | ✓       | ✓       | E-bid through E-Pak Acquisition and Disposable System(EPADS) |
| 2    | Procurement of Medical Equipment /Machinery /Instruments / Furniture/ Fixture                  | Expansion & Improvement of DHQ Hospitals (03Nos) at Khairpur, Badin & Shikarpur (Re-revised) ADP No.1024                                       | 132.582 (M)    |                          | -                             | -       | ✓       | ✓       |                                                              |
| 3    | Procurement of Medical Equipment /Machinery /Instruments / Furniture/ Fixture                  | Up-gradation of THQ to the level of DHQ Hospitals (3 Nos.) Matiari, Kamber and Umerkot (Re-revised) ADP No.1026                                | 666.280 (M)    |                          | -                             | -       | ✓       | ✓       |                                                              |

DIRECTOR GENERAL  
HEALTH SERVICES SINDH HYDERABAD

**OFFICE OF THE DIRECTOR GENERAL HEALTH SERVICES**  
**SINDH HYDERABAD**  
**HEALTH DEPARTMENT, GOVERNMENT OF SINDH**



**BIDDING DOCUMENT**

Bidding Documents for Procurement of Medical Equipment's/ Machinery  
Furniture & Fixtures/ Instruments/ & Miscellaneous Items.

For the Financial Year **2025-2026 & 2026-27**

Under ADP scheme **No.1023** Namely "Up gradation of DHQ Hospitals  
(**03 Nos.**) At Tando Muhammad khan, Tando Alhayar & Jamshoro

(Re-revised)

**FINANCIAL YEAR 2025-2026 & 2026-27**

Issued to M/s. \_\_\_\_\_

Due on: - - at 11:00 AM in the office of the Vice Chancellor, Jinnah Sindh Medical University  
(JSMU), Karachi .Chairman Central Procurement Committee.

*(Single Stage – Two Envelope Procedure)*

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**Office of the Director General Health Services Sindh Hyderabad**

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## SECTIONS OF THE TENDER

TENDER TITLE

### SECTION A

SUPPLY, INSTALLATION OF MEDICAL MACHINERY/EQUIPMENTS

### SECTION B

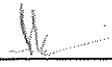
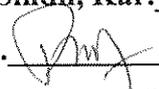
SUPPLY, OF HOSPITAL & GENERAL FURNITURE, FIXTURE ITEMS

### SECTION C

MEDICAL INSTRUMENTS & DEVICES, IT EQUIPMENTS AND  
MISCELLANEOUS ITEMS



Prepared/Reviewed by following members of Technical Committee (Machinery Equipment / Furniture etc):

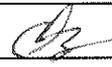
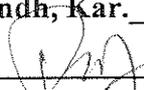
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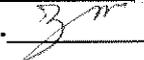
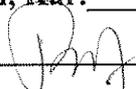
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**SALIENT FEATURES OF THE TENDER**

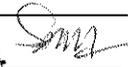
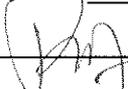
|     |                                                                                     |                                                                                                                                                                                                                                                                                                                                |
|-----|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | Name of Work & Address                                                              | PURCHASE OF MEDICAL EQUIPMEN/MACHINERY FOR Office of the <b>DIRECTOR GENERAL HEALTH SERVICES SINDH HYDERABAD</b>                                                                                                                                                                                                               |
| 2.  | Time & Date of issue of Tenders                                                     | From the date of publishing to one day before opening of Technical Proposal, during office hours.<br>It should be (As mentioned in Notice inviting tender).                                                                                                                                                                    |
| 3.  | Place of Issuance of Tender                                                         | Office of the <b>DIRECTOR GENERAL HEALTH SERVICES SINDH HYDERABAD</b>                                                                                                                                                                                                                                                          |
| 4.  | Date of pre-bid meeting                                                             | In case requested by bidders or informed by Procuring Agency.<br>Mentioned pre-bid meeting date if any application received considered for discuss same mentioned date                                                                                                                                                         |
| 5.  | Method of opening of Tender                                                         | Single Stage – Two Envelopes; as per SPPRA-Rules 2010 (Amended up-to-date) on online EPAD system.                                                                                                                                                                                                                              |
| 6.  | Date & Time of Submission of Tenders                                                | As published in newspapers<br>It should be (As mentioned in Notice inviting tender).                                                                                                                                                                                                                                           |
| 7.  | Date & Time of Opening of Tenders / Technical Proposals                             | As published in newspapers/ on EPAD system<br>It should be (As mentioned in Notice inviting tender).                                                                                                                                                                                                                           |
| 8.  | Date of Opening of Financial Proposals                                              | As informed by the Chairman of Procurement Committee to all participants                                                                                                                                                                                                                                                       |
| 9.  | Venue of submission & opening of Tenders                                            | Vice Chancellor, Jinnah Sindh Medical University (JSMU), Karachi.                                                                                                                                                                                                                                                              |
| 10. | Validity of Tenders                                                                 | 90 days as per Sindh Public Procurement Rules, 2010 (Amended till date).                                                                                                                                                                                                                                                       |
| 11. | Amount of Earnest Money/Bid Security                                                | Fixed Bid Security on each Quoted Item amount in shape of Pay Order / Call Deposit from schedule Bank in favor of <b>DIRECTOR GENERAL HEALTH SERVICES SINDH HYDERABAD</b> to be submitted along with Financial Proposal and also attached photo copy without showing amount of that pay order else the offer will be rejected. |
| 12. | Supply of Equipment                                                                 | Within up to 16 weeks after the Purchase order in case of DDP. However, this period is extendable as per mutual agreement/demand of the situation.                                                                                                                                                                             |
| 13. | Installation Period                                                                 | It will start after receiving of equipment at site.<br>It will start after satisfactory installation of equipment at site.                                                                                                                                                                                                     |
| 14. | Maintenance Period                                                                  | It will start after the satisfactory installation of the equipment and issuance of Installation Certificate from the concerned official. This period will remain functional till three years with replacement of parts.                                                                                                        |
| 15. | Warranty Period with replacement of Parts and services                              | As mentioned in technical specification of the equipment, otherwise the warranty period of parts with Free of cost replacement will be for three years.                                                                                                                                                                        |
|     |  | Along with three years free service & maintenance from the date of Installation.                                                                                                                                                                                                                                               |

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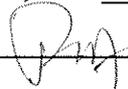
|     |                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16. | (a) Contract Agreement<br>Stamp Paper requirement for Agreement | The Contractor shall enter & execute a formal Agreement as per the "Form" annexed with such modification as may be necessary.<br>- Rs. 0.35% of the Contract Value or as prescribed by Government Laws.                                                                                                                                                                                                                                                                                                                  |
|     | Opening of L.C (Letter of Credit                                | Letter of Credit (L.C.) will be opened by Procuring Agency as consignee and as per the prevailing rule of same. Performa invoice of the quoted amount on C&F basis of the country of origin along with insurance cover note if applicable will also be submitted by the contractor(s). Bank charges in establishment of Letter of Credit (L.C.) fluctuation in currency if any and other miscellaneous charges on logistics, transportation clearing from sea port/ airport will also be paid/bear by the contractor(s). |
| 17. | Release of Earnest Money/Bid Security                           | To un-successful bidders, after financial bid is opened or technical bid is rejected. Earnest Money will be released to successful Bidder after purchase order is released but after 5% Security Deposit submission.                                                                                                                                                                                                                                                                                                     |
| 18. | Security Deposit                                                | 5% Security Deposit in the shape Pay Order/Bank Guaranty will be submitted by Contractor with Procuring Agency which will be released as per item 20. Bank Guarantee of equal amount will also be acceptable. Security Deposit is deposited as per item – 19.                                                                                                                                                                                                                                                            |
| 19. | Release of Security Deposit                                     | After completion of installation and maintenance of Defect Liability period.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 20. | Variation in Contract Price                                     | No variation in price shall be allowed on any ground including currency fluctuation/variation or whatsoever.                                                                                                                                                                                                                                                                                                                                                                                                             |
| 21. | Discrepancy                                                     | If there is any discrepancy between Salient Features of Tender /Bidding Documents and respective contents mentioned elsewhere, Salient Features / Terms & Conditions and Additional Terms & Conditions of Tender will govern.                                                                                                                                                                                                                                                                                            |
| 22. | Taxes                                                           | All taxes will be deducted as per prevalent laws of Country.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 23. | Approved makes                                                  | As mentioned in items specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 24. | Special Note Regarding Equipment                                | Technical offers / Commercial offers failing to demonstrate below details would be rejected:<br>a. Quoted system must be of advanced & latest version.                                                                                                                                                                                                                                                                                                                                                                   |

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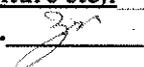
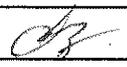
|     |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                                                        | <p>b. Tender must cover complete equipment.</p> <p>c. Tender must cover complete range of disposables/ kits</p> <p>d. Tender must provide all technical details up to the satisfaction of the end user.</p> <p>Items should be quality approved from the concerned international body of the respective industry.</p>                                                                                                |
| 25. | (a) Inspection of Imported equipment manufacturing site by the client. | After the award of Purchase Order, Supplier shall take two persons to the manufacturing site and bear all expenses of visit in case the cost any equipment of Supply Order is 50 million or above.                                                                                                                                                                                                                   |
|     | (b) Training                                                           | Supplier will provide on-site successful training to all the personnel working on/operating the said Equipment / Machine as long as the need prevail.                                                                                                                                                                                                                                                                |
| 26. | Maintenance.                                                           | Maintenance cost for all items for Two years from the date of successful Installation shall be undertaken by the Contractor (Maintenance includes all Parts & Labor, etc. with sufficient staff, during maintenance period).                                                                                                                                                                                         |
| 27. | Default in Preventive Maintenance, Breakdown and Emergency Calls.      | <ul style="list-style-type: none"> <li>• In case of default by the Contractor with respect to maintenance, break down and emergency calls, the same will be carried out within 24 hours by the Procuring Agency and the cost so incurred will be paid from the Retention Money.</li> <li>• Moreover an additional 10% of the amount spent would be charged from the concerned contractor being defaulter.</li> </ul> |
| 28. | Cost to be quoted in BOQ.                                              | <ul style="list-style-type: none"> <li>• The Contractors shall quote price in <b>DDP only</b>, of the Equipment's including custom clearance etc. and delivering of Equipment at site with Installation &amp; Commissioning cost.</li> <li>• It should also include cost during maintenance period including the parts and maintenance staff.</li> </ul>                                                             |
| 29. | Tax Exemption.                                                         | In case of purchase on C&F basis, the required certificate will be issued by this office that the import has been made for this hospital, so as to avail the facility of exemption of duties/taxes, as per Government Rules/Policy according to the Sindh Public Procurement Rules, 2010 (Amended till date). Clearance from the custom and other charges will be the responsibility of bidder.                      |

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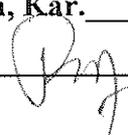
## TERMS & CONDITIONS OF TENDER

1. The Contractors responsible for **Supply, Installation, Testing and Commissioning of Medical Equipment, Machinery items , Instruments & Furniture & Fixture** while Installing Equipment at no extra-cost. So, the Contactors should take into account all such expenditures while quoting the bid.
2. **In Technical Bid**, the bidder must provide original data sheet, technical brochure, and all other relevant documents, along with copy of Pay Order / Bank Draft / Bank Guarantee without showing the amount figure otherwise, the bid will be ignored/rejected. The technical evaluation will be done on the basis of criteria given in tender document.
3. The vendor has to fill up **compliance sheet** with YES/NO or put value as desired in the column against provided specification. These specifications must be highlighted in the brochure attached; else the offer will be rejected.
4. **In Financial Bid**, the vendor should mention financial offer along with scanned copy of Pay Order / Bank Draft / Bank Guarantee Fixed bid security on each quoted item amount in favor of, **DIRECTOR GENERAL HEALTH SERVICES SINDH HYDERABAD**, Bid Security (in Original) must be submitted in sealed envelope to the procuring Agency before opening of tender.
5. The Supply order shall be placed on DDP basis the bidder should supply the items within time as specified in Tender Document i.e. 16 weeks. This period is extendable as per mutual agreement/demand of situation.
6. The disclosure of firm's price at the time of opening of Technical bid will result in the rejection of the bid.
7. No tender will be entertained without earnest money. The earnest money will be forfeited to Government Treasury, in case of non-submission of security money within seven (7) days of receipt of the offer letter.
8. Only Manufacturer, its Sole Agent or Authorized Distributors can quote Device, Equipment / Machinery. No sub-distributor is allowed to quote.
9. **For Single Stage Two Envelope Sections of the tender**, first scrutiny of Technical Bids will be performed by the Procurement Committee. Financial Bids of only those firms will be opened who are qualified technically.
10. Certificate from the Sole Agent/Manufacturer has fully equipped Workshop Trained Personnel/ Engineers and Equipment should be provided in the technical bid, and it can be physically verified by the administration of **DIRECTOR GENERAL HEALTH SERVICES SINDH HYDERABAD** The warranty period will commence from the date of installation of the Equipment at **Office of the DIRECTOR GENERAL HEALTH SERVICES SINDH HYDERABAD**
11. Firm must provide complete details of their financial standing, listing of similar items supplied in Pakistan, available local stock of items and details of office with number of personals.
12. The vendor has to quote only one rate for each item as per tender specifications. Hand written tenders or any over writing, cutting, should be signed.
13. Vendors should quote the items they intend to supply.
14. The bidder shall submit with the bid, an **Undertaking** on Non-Judicial stamp paper of Rs.50/- duly attested by Oath Commissioner, stating that the medical equipment will be supplied brand new, free  
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from defects as per the approved specification, also provide two years warranty for service and maintenance and will bind himself for availability of spares for a period of 10 years from the date of supply. In case of winding up of his business, the supplier will be bound to make an alternate arrangement of spares and maintenance of medical equipment. In case of default, depreciated cost of medical equipment will be recoverable from vendor.

15. If it has been found that the information submitted by the bidder regarding his qualification and professional, technical, financial, legal or managerial competence as supplier / contractor is / was false and materially inaccurate or incomplete at any stage, then the bidder will be disqualified.
16. Suppliers / Contractors will be responsible for supply at consignee end, free of cost and also responsible for free installation work, if required.
17. Equipment will be handed over to the Store Keeper will be handed over to Store Keeper **Office of the DIRECTOR GENERAL HEALTH SERVICES SINDH HYDERABAD** (Price escalation will not be allowed.)
18. If vendor doesn't supply medical equipment in accordance with the supply order or fails to supply according to terms and conditions or in case of any other default, the Performance Security and Security Deposit would be forfeited and further action as per SPPRA rule would be taken against such vendor.
19. If the supplier fails to give supply and install within the stipulated period, Liquidated charges will be imposed.
20. The decision once taken will be final and will not be challenged in any Court of Law.
21. A copy of Income Tax and GST Registration Certificate should be attached along with Technical Bid.
22. The bidding firm must be registered with PNRA department for minimum past three years (for Radiology items).
23. The bidder shall furnish copy of ATL (Active Tax Payer List certificate).
24. Copy of valid Professional Tax (Excise & Taxation) Certificate, Income Tax Certificate and GST Registration Certificate should be attached with the technical bid.
25. The bidder shall furnish three years Income Tax Return Certificate.
26. Conditional Tender(s) against the Government rules and non-compliance of instructions mentioned in Tender Form & Hand written tender(s) will not be entertained.
27. The vendor should submit a **Data Sheet** according to the Tender Specifications Form as mentioned in the tender and highlight the tender specifications in their Technical Data Sheet. Additional Features can be mentioned separately.
28. In case the information provided by bidder in Data Sheet as per **Clause No. 30** is incomplete or incorrect, the quoted item will be liable for rejection.
29. Supplier must have to provide Manual book with circuit diagram where applicable.
30. Supplier must have to arrange training on site for concerned technical staff for the supply of Equipment
31. Procurement Committee,, **Office of the DIRECTOR GENERAL HEALTH SERVICES SINDH HYDERABAD**

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32. the right to reject or accept any / all tender(s) as per SPPR-2010 (Amended 2019).
33. The system will have the minimum uptime 95% in case of down time beyond this period the following penalty will be applied:
- 95% to 100% No penalty.
  - 90% to 95% the warranty period will be extended by the number of days system in down.
  - 85% to 90% warranty period will be extended 1.5 time the down time period
  - 80% to 85% warranty period will be extended two time for the down time period and supplier is supposed to give justification of delay.
  - Uptime less than 80% hospital will complain to the Principal to take action against the supplier and warrant\ will be the three time for the down time period.
  - However, PPM (Periodic Preventive Maintenance) will not be considered in the downtime and PPM of the system will be done as per manufacturer recommendation.
34. Payment of DDP basis, the vendor shall submit Bill/Invoice for the purchase order value after delivery, installation and issuance of satisfactory report by the end user.
35. Bids shall remain valid for **90 days** after the date of bid opening and same may be extended in terms of Rule 38 (2) (3) (4) of SPPRA Rules.
36. Bid should be inclusive of all Government taxes (if applicable) and the same will be paid by the Contractor except withholding tax and 0.35% Stamp Duty which will be deducted at source in office of the Accountant General Sindh Karachi.
37. The bid security will be forfeited to the Government, if the bidder withdraws his bid after opening and before the expiry of the bid validity period or fails to sign the contract in stipulated time if the bid is accepted.
38. The Procuring Agency may reject all or any bid at any time prior to the acceptance of a bid or proposals, subject to the relevant provision of SPP Rules, 2010 (Amended 2019 up-to-date). Payment will be made within four weeks after receipt of bill / invoice duly fills in all respects.
39. Prices quoted shall remain valid up to 90 Days.
40. Registration from Sindh Revenue Board is not required in procurement of Goods.

I / We agree to above mentioned terms & conditions:

Name of Contractor \_\_\_\_\_ Signature \_\_\_\_\_

(CNIC NO \_\_\_\_\_ (Copy must be attached).)

Full Address \_\_\_\_\_

Rubber Stamp \_\_\_\_\_

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## SECTION A

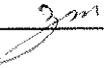
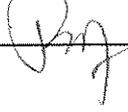
### Supply, Installation, Testing and Commissioning of Medical Equipment and Machinery Items

### DOCUMENT CHECKLIST

Please review the following list of all documents to be enclosed with the Technical Proposal. These are the **“MANDATORY DOCUMENTS”** non-submission of any one of the mandatory documents will lead to disqualification and no further assessment of tender will not be done hence **“TECHNICALLY REJECTED”**

| S.NO | DOCUMENT DESCRIPTION                                                                                         | YES / NO | PAGE # |
|------|--------------------------------------------------------------------------------------------------------------|----------|--------|
| 1    | Tender Purchase Receipt (Original) or Pay order                                                              |          |        |
| 2    | Bid Security (Copy with value hidden in Technical Proposal; Original in Financial)                           |          |        |
| 3    | Bidding Documents (Duly filled, Signed & Stamped by Bidder)                                                  |          |        |
| 4    | Technical Proposal on Bidder's Letterhead                                                                    |          |        |
| 5    | Compliance sheet on letter head (Mandatory)                                                                  |          |        |
| 6    | Undertaking (as per sample form)                                                                             |          |        |
| 7    | Certificate (as per sample form)                                                                             |          |        |
| 8    | Income Tax & GST Registration Certificate                                                                    |          |        |
| 9    | Professional Tax Certificate (Sindh)                                                                         |          |        |
| 10   | SECP Incorporation Certificate (where applicable)                                                            |          |        |
| 11   | PNRA Registration Certificate (where applicable)                                                             |          |        |
| 12   | PEC Registration of Firm & Qualified Engineer's Certificate (where applicable) (Mandatory for Service works) |          |        |
| 13   | DRAP Establishment license showing Importer/Manufacturer of medical devices.                                 |          |        |
| 14   | DRAP Product Establishment /Registration                                                                     |          |        |
| 15   | Company Profile                                                                                              |          |        |
| 16   | Bank Account Maintenance Certificate                                                                         |          |        |
| 17   | Income Tax Returns (last 3 years)                                                                            |          |        |
| 18   | Audited Financial Statement (last 3year)                                                                     |          |        |
| 19   | Workshop for After Sales Services (Mandatory)                                                                |          |        |
| 20   | Technical Team Details (Workshop details & Technical Staff Bio data with Training Certificates)              |          |        |
| 21   | Manufacturer's Authorization for the sole distribution in Pakistan (Attested by the Embassy)                 |          |        |
| 22   | Catalogue / Brochures (original)                                                                             |          |        |
| 23   | Product Technical Data Sheet                                                                                 |          |        |
| 24   | ISO 9001 of bidder (where applicable) (website link must be provided for verification)                       |          |        |
| 25   | ISO 13485 of Manufacturer (where applicable) (website link must be provided for verification)                |          |        |
|      | CE/ FDA510(K) / JIS / MHLW (where applicable) (website link must be provided for verification)               |          |        |

**Prepared/Reviewed by following members of Technical Committee (Machinery Equipment / Furniture etc):**

- a. S. Zamir Hussain Shah, Bio Medical Engineer, Dr. Ruth K.M. Pfau Civil Hosp. Kar. 
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- d. Sunny Mohiuddin, Dy. Director (Procurement), Directorate of Pharmacy, Sindh, Kar. 
- e. Rajeev Brahman, Pharmacist, Dr. Ruth K.M Pfau Civil Hospital Karachi. 

**Note:**

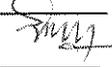
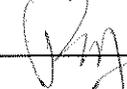
- Mandatory documents are mentioned.
- All pages of the bid, except for un-amended printed literature, shall be initialed by the Bidder.

**BIDDER'S DETAILS FOR NOTICE PURPOSES**

|                      |  |
|----------------------|--|
| Bidder Name:         |  |
| Address:             |  |
| Tel No.              |  |
| Fax No.              |  |
| Contact Person Name: |  |
| Mobile No.           |  |
| Email Address:       |  |



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# SECTION A

## Supply, Installation, Testing and Commissioning of Medical Equipment and Machinery Items

### Note:

### EVALUATION CRITERIA

Financial proposal must be submitted on company letter head duly signed and stamped. Bidder is required to type their offer in figure and as well as in words of the total amount; else the offer would be rejected.

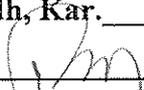
### EVALUATION/QUALIFICATION

1. The procuring agency reserves the right to evaluate and compare the bids on itemized basis OR on basis of a group of similar nature goods OR goods compatible with each other.
2. The following merit point system for weighing evaluation factors/criteria will be applied for technical proposals.
3. Bidders achieving minimum 70% marks will be considered as qualified beside compliant of all mandatory clauses. Documentary evidence must be attached in support of each parameter.
4. Any Bid not meeting the mandatory requirements of evaluation criteria will be disqualified /rejected straight away and will not be considered for further evaluation.
5. Provide website link of product certification for online verification.

### A. PRODUCT EVALUATION

| S#       | PARAMETERS/SUB-PARAMETERS                                                                                                                                                                                                                                                                                 | Total Marks |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>1</b> | <b>Conformity to the Purchaser's Specifications (Mandatory)</b>                                                                                                                                                                                                                                           | <b>30</b>   |
| 1.1      | Fully compliant with the required specifications                                                                                                                                                                                                                                                          | 30          |
| 1.2      | Compliant with minor deviation (up to 5% subject to main function is not affected)                                                                                                                                                                                                                        | 25          |
| 1.3      | Compliant with minor deviation (up to 10% subject to main function is not affected)                                                                                                                                                                                                                       | 20          |
| 1.4      | Non-compliant to required specifications                                                                                                                                                                                                                                                                  | Disqualify  |
| <b>2</b> | <b>Trained Product Specialist</b>                                                                                                                                                                                                                                                                         | <b>10</b>   |
| 2.1      | Two marks for each Foreign Technical Graduate Engineer with PEC Registration in Sindh for the quoted product (Factory/OEM level service training).                                                                                                                                                        | 06          |
| 2.2      | Two marks for each Foreign Trained Science Graduate in Sindh for the quoted product (Factory/OEM level application training).                                                                                                                                                                             | 04          |
| <b>3</b> | <b>Product Certification</b>                                                                                                                                                                                                                                                                              | <b>10</b>   |
|          | <ul style="list-style-type: none"><li>● USA Food &amp; Drug Administration (USA-FDA)</li><li>● European Community (CE) MDD</li><li>● Japan Industrial Standard (JIS) / Japan Quality Assurance Organization (JQAO) / Certificate issued by Ministry of Health, Labor and Welfare Govt. of Japan</li></ul> |             |
| 3.1      | All Three of the above                                                                                                                                                                                                                                                                                    | 10          |
| 3.2      | Any two                                                                                                                                                                                                                                                                                                   | 7           |
| 3.3      | Only One                                                                                                                                                                                                                                                                                                  | 3           |
|          | <b>TOTAL MARKS PRODUCT EVALUATION (A)</b>                                                                                                                                                                                                                                                                 | <b>50</b>   |

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**B. BIDDER EVALUATION**

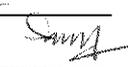
| S#                                       | PARAMETERS/SUB-PARAMETERS                                                                                                                                                                                                                                                                                                                                                                                                  | Total Marks |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>4.</b>                                | <b>Manufacturer's Authorization(Mandatory)</b>                                                                                                                                                                                                                                                                                                                                                                             | <b>10</b>   |
| 4.1                                      | Bidder is OEM direct representative or the Sole Distributor for last 10 years or more. (Authorization certificate attested by embassy must be provided)                                                                                                                                                                                                                                                                    | 10          |
| 4.2                                      | Bidder is OEM direct representative or the Sole Distributor for more than 05 years but less than 10 years. (Authorization certificate attested by embassy must be provided)                                                                                                                                                                                                                                                | 8           |
| 4.3                                      | Bidder is OEM direct representative or the Sole Distributor for 05 years or less (Authorization certificate attested by embassy must be provided)                                                                                                                                                                                                                                                                          | 5           |
| 4.4                                      | Non submission of valid manufacturer's authorization                                                                                                                                                                                                                                                                                                                                                                       | Disqualify  |
| <b>5.</b>                                | <b>Human Resource</b>                                                                                                                                                                                                                                                                                                                                                                                                      | <b>06</b>   |
| 5.1                                      | Diploma of Associate Engineer (DAE) in electrical / electronic / biomedical / mechatronics / mechanical / industrial. DAE certificate must be submitted. (0.5 mark for each certificate)                                                                                                                                                                                                                                   | 2           |
| 5.2                                      | Graduate Engineer with PEC Registration in biomedical, electronics, and mechatronics, mechanical, industrial. PEC registration card of the engineer must be submitted. (1mark for each Engineer)                                                                                                                                                                                                                           | 4           |
| <b>6.</b>                                | <b>Networking</b>                                                                                                                                                                                                                                                                                                                                                                                                          | <b>04</b>   |
| 6.1                                      | Networking setup across Pakistan (1 mark for each setup) (verifiable) (proof of registered office and workshop must be provided)                                                                                                                                                                                                                                                                                           | 04          |
| <b>7.</b>                                | <b>Past Experience/ Performance</b>                                                                                                                                                                                                                                                                                                                                                                                        | <b>10</b>   |
| 7.1                                      | Bidder's prior experience for supplying the same nature of product. Performance certificate of at least 05 public hospitals having minimum 5 years' Experience along with Installation Report and Supply order/ Purchase Order of the firm in last 5 years, on letter head, signed and stamped by the Head of institution of public sector. One mark for each after sale satisfactory performance certificate.             | 05          |
| 7.2                                      | Bidder's prior experience for supplying the same nature of product. Performance certificate of at least 05 reputable private hospitals having minimum 5 years' Experience along with Installation Report and Supply order/ Purchase Order of the firm in last 5 years, on letter head, signed and stamped by the Head of institution of private sector. One mark for each after sale satisfactory performance certificate. | 05          |
| <b>8.</b>                                | <b>Turnover total during last three (03) financial years(Audited Statements of Accounts and Income Tax Return Forms must be attached as supporting documents)</b>                                                                                                                                                                                                                                                          | <b>10</b>   |
| 8.5                                      | Turnover last 3 years equal or above PKR 1200 million                                                                                                                                                                                                                                                                                                                                                                      | 10          |
| 8.4                                      | Turnover last 3 years equal or above PKR 1000 million                                                                                                                                                                                                                                                                                                                                                                      | 08          |
| 8.3                                      | Turnover last 3 years equal or above PKR 800million                                                                                                                                                                                                                                                                                                                                                                        | 06          |
| 8.2                                      | Turnover last 3 years equal or above PKR 600 million                                                                                                                                                                                                                                                                                                                                                                       | 04          |
| 8.1                                      | Turnover last 3 years below PKR 600 million                                                                                                                                                                                                                                                                                                                                                                                | 00          |
| <b>9.</b>                                | <b>Bonus points</b>                                                                                                                                                                                                                                                                                                                                                                                                        | <b>10</b>   |
| 9.1                                      | Free of Cost Extended Warranty (in accordance with the standard warranty period) atleast for two year including parts & services & labor. (Bidder offering greater extended warranty period will get the full marks)                                                                                                                                                                                                       | 10          |
| 9.2                                      | Free of Cost Extended Warranty (in accordance with the standard warranty period) at least for one year including parts & services & labor.                                                                                                                                                                                                                                                                                 | 05          |
| <b>TOTAL MARKS BIDDER EVALUATION (B)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>50</b>   |
| <b>GRANDTOTAL (A+ B)</b>                 |                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>100</b>  |

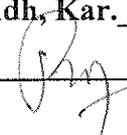
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### BIDDER EVALUATION CRITERIA

Bid found to be responsive with maximum accumulative points (Technical + Financial) shall be accepted as the **most advantageous bid** as per SPPR, 2010 (Amended 2021).

Bids will be evaluated on the basis of following evaluation criteria.

#### **A. TECHNICAL EVALUATION**

- i) Technical evaluation has 70% weightage
- ii) Bids will be evaluated on a Bidder's capacity and capability to undertake supplies and on quoted item quality, performance and conformity to the required specifications.
- iii) Technical capacity of a bidder includes availability of workshop, tools, technical staff, number of installation and experience in the province of Sindh for prompt services to Karachi Division. Past performance of the bidder at **DIRECTOR GENERAL HEALTH SERVICES SINDH HYDERABAD** will also be reviewed.
- iv) A bidder must achieve a minimum of 70 points out of total 100 points in technical evaluation, to be considered for financial evaluation.

#### **B. FINANCIAL EVALUATION**

- i) Financial evaluation has 30% weightage.
- ii) Only financial proposal of bidders with responsive technical proposal will be opened. Financial proposal of bidders who do not meet required mandatory documents and minimum 70 points out of total 100 points in technical evaluation will be returned unopened.
- iii) Bidder who has offered the lowest value for the item will get 30 points.
- iv) All remaining bidders after the lowest shall get points on their financial proposal, calculated as per the following formula.

$$\frac{\text{Value of lowest bidder} \times 30}{\text{Value of higher bidder [2nd, 3rd, 4th, etc.]}}$$

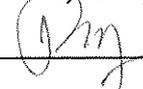
#### **C. FINAL BID EVALUATION**

- i) Points obtained by bidders in technical and financial evaluation shall be prorated and finalized as follows.

| Evaluation   | Weightage   |
|--------------|-------------|
| Technical    | 70%         |
| Financial    | 30%         |
| <b>Total</b> | <b>100%</b> |

- ii) Bid of a bidder who is found technically responsive with highest accumulated points will be considered as the most advantageous bid.

Prepared/Reviewed by following members of Technical Committee (Machinery Equipment / Furniture etc):

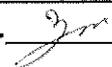
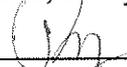
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## SECTION A

### Supply, Installation, Testing and Commissioning of Medical Equipment and Machinery Items

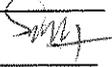
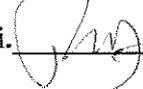
| S. NO | DESCRIPTION ITEMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TMK | KOTRI | TAY | TOTAL | FIXED BID SECURITY |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|-----|-------|--------------------|
| 1.    | <p><b>Microscope</b><br/> <b>Specification:</b><br/>                     Standard microscope with infinity color corrected optics<br/>                     Binocular head, adjustable inter papillary distance<br/>                     Tube head with an inclination of 30 Degree or more<br/>                     Rotating quadruple/quintuple nose piece<br/>                     2-layer with mechanical sliding stage, XY moving range<br/>                     Condenser carrier, vertically/horizontal adjustable Bright field condenser, N.A. of 1.25 Aperture iris diaphragm LED illumination 220V 50 Hz, AC<br/>                     User Adjustable Settings: Coaxial coarse and fine focusing system, with focusing stop mechanism Variable intensity control system Eyepiece lenses:- 10x wide field, focusable, Objective lenses (Achromat):- 4x Scanning lens 10X 20X 40x 100x oil immersion<br/> <b>Country of Origin:</b> UK, USA, Europe, Japan or Equivalent.<br/> <b>Should be:</b> ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW<br/>                     (Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.<br/> <b>Warranty:</b> Warranty period shall be of three years starting from date of satisfactory installation of equipment</p> | 01  | 01    | 0   | 02    | 24200              |
| 2.    | <p><b>Infusion pump</b><br/> <b>Specification:</b><br/>                     Flow rate range should be from 1.0 – 1200 ml/h or better. 0.1 Or 1 mL/hr.increments.</p> <ul style="list-style-type: none"> <li>• KVO range should be 1 – 5ml/hr. or better</li> <li>• Digital LCD display.</li> <li>• Should have occlusion detection pressure.</li> <li>• Should have air in line detection sensitivity.</li> <li>• Don't need to be attached with a protective ground.</li> <li>• Alarms should include: Empty container, Occlusion, Door open, free flow, flow error, reminder, air in line, low battery, infusion complete, power source switch, operator error and other device malfunction alarms.</li> <li>• Should have Special Features: KVO, Auto power off, Alarm repeat, Data storage setting, Buzzer setting, power supply switched, Key lock, History, Maintenance timer, Battery refresh, Nurse call.</li> <li>• Power supply should be 240 V and 50/60 Hz.</li> <li>• Should have backup battery for instant switching from AC to DC.</li> <li>• Battery Backup: 4h or more</li> <li>• Power Unit Waterproof design to prevent the liquid drop, IPX24 or better</li> </ul>                                                                                                                          | 01  | 02    | 02  | 05    | 37900              |

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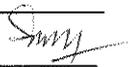
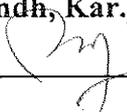
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |    |   |    |       |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|---|----|-------|
|    | <p><b>Supplied with:</b> pole clamp, power cable and operating manual.</p> <p><b>Country of Origin:</b> UK, USA, Europe, Japan or equivalent.</p> <p><b>Should be:</b> ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW</p> <p>(Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.</p> <p><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |    |   |    |       |
| 3. | <p><b>Incubator</b></p> <p><b>Specification:</b><br/> Temperature range 10 to 100° C Control Accuracy ± 0.7° C<br/> Volume 60 -100 liters<br/> No of Racks Two Temperature Control PID Display LED<br/> Operating Voltage 220V<br/> <b>Ventilation &amp; Control</b><br/> Forced air circulation<br/> Parameters adjustable temperature (Celsius or Fahrenheit),<br/> Programmed stored in case of power failure<br/> <b>Over Temperature Protection</b> with audible and visual alarm Over temperature monitor<br/> <b>Texture</b><br/> Fully insulated stainless steel door with 2-point locking (compression door lock) Inner glass door<br/> Easy-to-clean interior,<br/> <b>Temperature</b><br/> Min. 10 °C above ambient up to +80 °C<br/> <b>Accessories:</b> Complete with standard accessories, software, Operating manual, Services Manual, error code book, part list and software if any<br/> <b>Country of Origin:</b> UK, USA, Europe, Japan or equivalent.<br/> <b>Should be:</b> ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW<br/> (Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.<br/> <b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end..</p> | 01 | 01 | 0 | 02 | 36500 |
| 4. | <p><b>Centrifuge 12 head</b></p> <p><b>Specification:</b><br/> Maximum capacity: 12 x 15 mL<br/> Maximum speed : 300-5000 rpm, adjustable in increments of 100 rpm<br/> Time setting: 1-99 minutes, in increments of 1 minute; HOLD<br/> Temperature range: 2°C to 40°C<br/> Control system: Microprocessor<br/> User interface: Large, brightly-lit LED</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 01 | 01 | 0 | 02 | 48400 |

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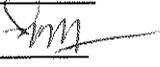
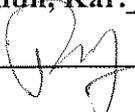
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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|---------|
|    | <p>displayNoise level:<br/>&lt;55 dBA<br/>Power Supply (VAC/ Hz): 220-240 VAC/ 50 Hz<br/>Country of Origin: UK, USA, Europe, Japan or equivalent.<br/>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW<br/>(Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.</p> <p>Warranty: Warranty period shall be of three years starting from date of satisfactory installation of equipment to the consignee end.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |    |    |    |         |
| 5. | <p><b>Ultrasound machine (digital color doppler)</b><br/>Specification:<br/>High End Color Doppler Ultrasound Machine<br/>Color Doppler with Fully Digital Beam former, processing channels 3.0 million or more. Having 2D / M-Mode and Doppler Facilities, (PW, HPRF, &amp; Color Flow Imaging) with High Resolution Imaging Doppler Signal Quality; Receiving / processing channels min. 5000,000 having DICOM Compatibility upgradable to 4D imaging in convex and TVS probe. System frequency range must be 1-22 MHz</p> <p>1) B-MODE Specification:<br/>a) Viewing Depth: 40 cm Minimum (Both in B &amp; W and Color).<br/>c) Frame Rate: 1200 f/sec or more in B-mode.<br/>d) Built-in cine loop with ability to vary reverse and slow motion of display;Internal Memory 1000 / 200MB or more Color Images.<br/>e) Real time and Freeze Image Magnification at least 10X or more with panning forReal, Freeze and Memorized Images.</p> <p>2) M-MODE SPECIFICATION:<br/>a) Magnification: X2 or more.<br/>b) Sweep Speed: Slow, Medium and Fast.<br/>c) Color Display of M-Mode.</p> <p>3) D-MODE SPECIFICATION:<br/>a) Pulse-Wave Doppler Measureable Velocity Range.<br/>b) HPRF Doppler.<br/>c) CONTINUOUS-WAVE DOPPLER:<br/>- Measurable Velocity Range: Steerable.<br/>- Must have Doppler Beam Steering and Bi-Directional Stereo-Audio.<br/>d) Colorized Spectrum Display.<br/>e) Automatic Baseline and Velocity Range Control.<br/>f) Live Measurements for Doppler Spectrum</p> <p>4) COLOR DOPPLER MODE SPECIFICATIONS:<br/>- Both CW and PW Doppler must be Continuous Steerable in the Color BloodFlow Image Mode in Real Time.<br/>- 2D Image with Color, CW and PW Doppler.<br/>- Windows based System for easy usage with Programmable Control Panel Keys.</p> | 01 | 01 | 01 | 03 | 1089000 |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |
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| <p>- Tissue Harmonic Imaging with 4THI or more Frequency.<br/> - Power Doppler.<br/> - Triplex Mode for Simultaneous Display of Color B/M and D-Mode Displays.<br/> - 250 db system dynamic range or more.</p> <p>5) MEASUREMENT PACKAGE:<br/> To provide Comprehensive Software Package for Measurement of Distance, Circumference, Area, Time Depth, ANGLE, Velocity, Frequency, Heart Rate, Volumes, AutoNuchal Thickness Measurement Software to be Provided as a Standard.</p> <p>6) SYSTEM COMPLETE WITH FOLLOWING FACILITIES AND ACCESSORIES:<br/> - 21-Inches Minimum LED Color Monitor, with Resolution 1920 x 1080 Pixelsminimum.<br/> - Foot-Switch.<br/> - 4 Active Transducer Connector for Tran thoracic Probes DVD / CD Drive forImage Storage to be Built-in to the System.<br/> - 500 GB or more Hard Disk Drive to be Built-in to the System.<br/> - Built-in DICOM Compatibility.<br/> - Touch Command Screen Control at least 8 inches LCD / TFT.</p> <p>7) STANDARD PROBES:<br/> - 1 – 8 MHz Multi-Frequency Convex Probe for B/M/CDI/PW.<br/> - 4 - 15 MHz Multi-Frequency Linear Probe for vascular studies.<br/> - 1 - 4 MHz Multi-Frequency Phased Array Adult Probe for Cardiac studies.<br/> - 3 – 9 MHz Multi-Frequency TVS/ENDOCAVITORY<br/> OPTIONAL PROBES:<br/> - 3 -10 MHz Multi-Frequency Phased Array Pdertic Probe for Cardiac studiesPROBE</p> <p>8) STANDARD RECORDING DEVICES:<br/> 9) Tissue Harmonic imaging without contrast.<br/> 10) Pure Wave / Pulse Inversion / Differential Tissue Harmonic Imaging or similar.<br/> 11) Breast Imaging Reporting and Data System (BI-RADS) Auto Image Optimization / Quick Scan Imaging for Automatic STC / GAIN andDoppler Spectrum Adjustment with Optimal Image Quality by using One Touch Operation.<br/> 12) B-Flow / Dynamic Flow Imaging / X-Flow / E-Flow clarify for low flowvessels imaging.<br/> 13)-Thyroid imaging reporting and data system (TI-RADS) Trapezoid Imaging / Virtual Convex Imaging with Linear Probe.<br/> 14) Compound / Aplipure Imaging for THI/MView both Frequency Compounding<br/> 15) Panoramic / SIESCAPE / Vpan / Logic view</p> |  |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|

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operator i.e. (process status etc.) Equipped with alarm, warning and error messages Equipped with emergency stop button. Easy Use and Understandable Icons for Program Selection and Operation. Viewing of Process Charts (pressures and temperatures) in Real-Time (Process cycle ID with its Big Descriptive Icon, preset Exposure and Drying Times, Remaining Cycle Time in big numbers for minutes and seconds).  
Storing Data of the last 1000 Process Cycles or equivalent.  
All Pipes, Fittings, Clamps conducting Steam should be made of Stainless Steel AISI 316L

**PROGRAMS:**

- Vacuum test
- Bowie & Dick test
- Textiles and instruments at 134 °C
- Rubber at 121 °C
- Rapid at 134 °C
- Instruments in containers at 134 °C
- Special P at 134 °C
- Liquid cycle 121 °C

**Accessories:**

- Complete with all standard accessories and removable shelves, capable of taking both, packets and containers of all standard sizes.

One loading and unloading trolleys and loading Shelve compatible with the system

**RO Plant**

2,000 Gallon per day with discharge pumps with backup including water storage tank capacity of 1,000 L or more.

Locally assembled with imported components and compatible with system Installation and commissioning are the responsibility of the supplier.

Imported Online UPS for controller with backup of 30 min

**Air compressor:** (as per manufacturer recommendation), make and model must be quoted.

Country of origin: USA/EUROPE/JAPAN/OR EQUIVALENT.

**Should be:** ISO-13485 (Mandatory) & CE, JIS, FDA, MHLW

(Other than UK, USA, Europe & Japan) will be accepted if equivalent have any Two Certificate.

Warranty: 03 years from the date of satisfactory installation. Three phase

DB Panel with phase Sequencer (local)

End-user application training and technical training of engineer to be provided locally by a foreign trained specialist along with training material as per manufactures guideline.

Installation and commissioning including (UPS, DB Panel with phase sequencer, Air compressor and all kind

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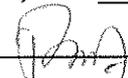
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |   |    |    |        |
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|     | <p><b>Country of Origin:</b> UK, USA, Europe, Japan or Equivalent.<br/> <b>Should be:</b> ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW<br/>         (Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.<br/> <b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |   |    |    |        |
| 9.  | <p><b>Phacco Machine</b><br/> <b>Specification:</b><br/>         1. Main console with surgeon setting programming.<br/>         2. Phacco modulation choice of pulse and burst mode.<br/>         3. Vacuum 0-650 mmHg or better<br/>         4. Provision for 2.2 to 2.8 mm tips incision size.<br/>         5. Programmable foot pedal.<br/>         6. Pump: Peristaltic /Venturi / Peristaltic &amp;Venturi (combined).<br/>         7. Irrigation/ Aspiration hand pieces<br/>         8. I/A tubing set with collection bottle / container/ bag / cassette (Quantity 3)<br/>         9. I/A test chamber (Quantity 10)<br/>         10. Irrigation sleeves (Quantity 10)<br/>         11. Phaco needle 30° bevel round (Quantity 6), metal Wrench for tightening needle(Quantity 3).<br/>         12. Disposable anterior vitrectomy cutter (Quantity3)<br/>         13. Phaco hand piece (Quantity 2) with sterilization box<br/> <b>Accessories :</b><br/>         1. With original trolley<br/>         2. Dust cover<br/> <b>Country of Origin:</b> UK, USA, Europe, Japan or equivalent.<br/> <b>Should be:</b> ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW<br/>         (Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.<br/> <b>Warranty:</b> Warranty period shall be of three years starting from date of satisfactory installation of equipment.</p> | 01 | 0 | 01 | 02 | 302500 |
| 10. | <p><b>Operating microscope</b><br/> <b>Specification:</b><br/>         1. Floor stand mount microscope body with zoom (ratio 1:5 or better).<br/>         2. Linear/Continuous zooming<br/>         3. Built-in coaxial illumination with red reflex.<br/>         4. Motorized fine focusing and manual or motorized coarse focusing<br/>         5. Objective f=175mm/ f=200 mm<br/>         6. Binocular tube: inclined at a variable angle<br/>         7. Eyepiece: 10 X or 12.5X with dioptic adjustment<br/>         8. Halogen/LED illumination with controllable intensity with/without fiber optic cable<br/>         9. Water proof foot control panel.<br/>         10. Sterilizable protective caps for all drive knobs<br/> <b>Accessories:</b><br/>         1. 06 spare halogen lamps (in case of halogen</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 01 | 0 | 0  | 01 | 166400 |

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|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |    |    |    |        |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|--------|
|     | illumination).<br>2. Dust cover.<br><b>Country of Origin: UK, USA, Europe, Japan or equivalent.</b><br><b>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW</b><br>(Other than UK, USA, Europe & Japan) will be accepted if equivalent have any Two Certificate.<br><b>Warranty:</b> Warranty period shall be of three years starting from date of satisfactory installation of equipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |    |    |    |        |
| 11. | <b>Anesthesia machine with ventilator</b><br><b>Specification:</b><br>Gas Supply: Pipeline input pressure: 3 to 6 bar supplies required; Connections: for O2, N2O, Air and Vacuum.<br>2) Non-interchangeable gas supply pipeline inlets.<br>3) Pin index cylinder yokes for O2 and N2O one each or more.<br>4) Stainless steel/fiber work surface.<br>5) Central Gas / Electronically driven unit.<br>6) Continual fresh gas flow with fresh gas flow compensation during mechanical ventilation.<br>7) Should be low flow<br>8) Auxiliary O2 Outlet one or more.<br>9) Two lockable castors<br>10) Absorber bag support arm<br>11) Oxygen flush 30 l/min or more<br>12) Should have built in suction operating on vacuum<br>13) Should have built in Active scavenging system<br>14) Manometer gauges (Manual or Digital)<br>• Pipeline: O2, N2O & Air<br>• Cylinder NIST: O2, N2O<br>• Pin indexed: O2, N2O<br>15) Rotameter (hypoxic guard system) manual/digital<br>16) Common gas outlet option should be present.<br>17) Built in Oxygen monitoring system.<br>18) Built in autoclavable flow sensor compatible with all type of patient.<br>19) Should have ability to add module or other optional features like Agent monitoring, EtCO2.<br>20) Selecta Tec system two or more station vaporizer mounting<br>Vaporizer should be flow and temperature compensated and interchangeable with other machines.<br>21) Minimum 1.2 liters or more CO2 absorber volume<br>• Absorbent canister should be Autoclavable<br>22) Breathing assembly/system should be completely Autoclavable | 01 | 01 | 02 | 04 | 786500 |

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|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |   |   |    |       |
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|     | <p>15 ° or better.</p> <ul style="list-style-type: none"> <li>• Lateral tilt (right/left) 20 ° / 20 ° or better</li> <li>• Back plate (up/down) 75 ° / 25 ° or better</li> <li>• Head plate (up/down) 30 ° /90 ° or better</li> <li>• Leg plate (up/down/split) 90 ° / 90 ° x2 or better</li> <li>• Flex / Reflex 190 ° / 100 ° or better</li> <li>• Patient weight 200 kg (during positioning) or better.</li> </ul> <p><b>Country of Origin: UK, USA, Europe, Japan or equivalent.</b><br/> <b>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW</b><br/> (Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.<br/> <b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |   |   |    |       |
| 13. | <p><b>Diathermy machine</b></p> <p><b>Specification:</b></p> <ul style="list-style-type: none"> <li>• High frequency surgical diathermy for mono polar and bi polar cutting andcoagulation for use in general surgery, ENT, Gynecology, Urology, Orthopedic, etc.</li> <li>• Output power 300 W or more</li> <li>• Monopolar cutting 300 W or more</li> <li>• Blend: 230W or more</li> <li>• Monopolar coagulation</li> <li>• Soft 120 W or more</li> <li>• Forced 120 W or more</li> <li>• Spray 120 W or more</li> <li>• Bipolar Cutting 100 W or more</li> <li>• Bipolar Coagulation : 80 W or more</li> </ul> <p><b>Should be completed with:</b></p> <ul style="list-style-type: none"> <li>• Power Cable, Double Pedal Footswitch, and Reusable Electrode Handle with 2 finger Pushbuttons, Knife Electrode, Wire Loop Electrode, BipolarForceps, Bipolar Connecting Cable, Reusable Patient Plate with Cable andTrolley (Local).</li> </ul> <p><b>Country of Origin: UK, USA, Europe, Japan or equivalent.</b><br/> <b>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW</b><br/> (Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.<br/> <b>Warranty:</b> Warranty period shall be of three years starting from date ofsatisfactory installation of equipment to the consignee end.</p> | 01 | 0 | 0 | 01 | 48400 |
| 14. | <p><b>Multipara monitor</b></p> <p><b>Specification:</b></p> <ol style="list-style-type: none"> <li>1. Vital signs and other parameter for Adult / Paeds / Neonates</li> </ol> <p><b>Operating Features and Characteristics:</b></p> <ol style="list-style-type: none"> <li>2. Screen Size: At least 13" or more diagonal or</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 04 | 0 | 0 | 04 | 36300 |

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better with non-fade LCD / TFTLCD / LED color display.  
 3. Should Be Touch Screen.  
 3. Electro-Surgical Interference Suppression / Protection  
 4. Defibrillator Protection  
 5. Freeze and Cascade Facility  
 6. Waveform: Six wave forms or more  
 7. Waveform Traces Speed: 5, 10, 25 & 50 mm / sec

**Parameters:**

8. ECG  
 9. Numeric: Heart Rate  
 10. Real Time, and freeze ECG Trace  
 Non-Invasive Blood Pressure (NIBP):  
 11. Method: Oscillometric Principle  
 12. Numeric: Systolic, Diastolic, and Mean Pressure  
 13. Selectable auto inflate interval settings  
 14. Rising Cuff / Continuous Pressure Display  
 Invasive Blood Pressure (IBP):  
 15. IBP Two or more Channels  
 16. Mainstream Capnography (EtCO<sub>2</sub>) Optional. must be quoted.  
 Temperature:  
 17. Numeric: Temperature selectable in °C / °F  
 Pulse Oximetry:  
 18. Numeric: 0 – 100% oxygen saturation measuring range  
 19. Waveform-Plethysmograph Pulse with Pulse Strength Indication  
 Arrhythmia Analysis:  
 20. Arrhythmia Analysis and ST Analysis  
 Respiration:  
 21. Breathe Rate display and settable apnea alarms  
 22. Sweep Speed: 3,6.25, 12.5 mm / sec or better  
 Other Features:  
 23. Trend Data: Graphical / Tabular with at-least 48 hours' back-up or better  
 Alarms:  
 24. High & Low (settable) on all parameters  
 25. Visual and audible indication of alarms  
 Other Parameter:  
 26. Operating Requirement: AC 220 V & 50 Hz  
 27. Built-in rechargeable battery for fully operational back-up for at least 2 hours or more  
 Communication:  
 28. Capability to interface with LAN / WLAN for data transfer  
 Accessories:  
 The system must be complete with all sensors, probes, cables, or any other accessories required for measuring all the above selected parameters  
 Type and Quantity of Reusable Cuffs (Latex Free) of all available sizes of all body  
 Operational & Service

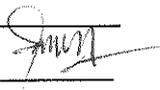
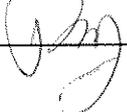
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|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |   |    |    |        |
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|     | <p>Manual<br/> <b>Country of Origin: UK, USA, Europe, Japan or equivalent.</b><br/> <b>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW</b><br/> (Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.<br/> <b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |   |    |    |        |
| 15. | <p><b>Suction Machine (Heavy Duty)</b><br/> <b>Specification:</b></p> <ul style="list-style-type: none"> <li>• Should have ability to be used in the emergency dept., intensive care, operating theatre.</li> <li>• The pump should have accurate vacuum setting with the membrane vacuum regulator</li> <li>• Should have piston/cylinder system for a vibration free and noiseless operation.</li> <li>• The vacuum range should start from -95 kPa / 713mmHg or better.</li> <li>• The flow rate should be adjustable from 60 or more liter/min.</li> <li>• Power Requirement:<br/> Line Voltages 100-240 VAC Line Frequency 50/60Hz</li> </ul> <p><b>Should be Supplied with:</b><br/> Two reusable suction jars of 5 liters<br/> Mobile Trolley Original with two lockable castor<br/> Antibacterial Filter<br/> Clamp Holder<br/> Disposable Patient Tubing Power Cord<br/> Operating Manual<br/> <b>Country of Origin: UK, USA, Europe, Japan or equivalent.</b><br/> <b>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW</b><br/> (Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.<br/> <b>Warranty:</b> Warranty period shall be of three years starting from date of satisfactory installation of equipment.</p> | 01 | 0 | 20 | 21 | 317625 |
| 16. | <p><b>Overhead operating light</b><br/> <b>Specification:</b><br/> Ceiling mounted double dome OT Light<br/> Unit should have Patented, proven reflector technology<br/> Unit should have Optimum hygiene<br/> High R9 LEDs provide highest ability to identify a red tissue structure (R9 &gt; R7). Compact size &amp; minimum no. of LED components which allow the</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 01 | 0 | 0  | 01 | 75650  |

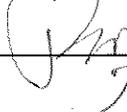
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compact luminary design.  
 High power LEDs provide high lumen to watt ratio with less energy consumption. Radiant energy is <3.2mW/lm which increased light life.  
 Unit should have Safety glass for best possible clarity.  
 Should have light intensity of 160,000 lux (First dome) and 160,000 lux or more(second dome).  
 Should have Color temperature adjustment 3800 - 5500 Kelvin or better 4 stepsadjustable  
 Should have Temperature increase at head height ≤2°C  
 Should have Should have Color rendering index to ≥ 96Ra or betterShould have Life time of LED greater than ≥50,000 or more.  
 Must have battery backup.  
**Country of Origin:** UK, USA, Europe, Japan or Equivalent.  
**Should be:** ISO-13485 (Mandatory) & CE, JIS, FDA, MHLW  
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**Warranty:** Warranty period shall be of three years starting from date of installation of equipment to the consignee end.

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| 17. | <p><b>Digital video colposcopy</b><br/> <b>Specification:</b><br/>         Full HD video Colposcope<br/>         Software for patient data entry/documentation, creating images and videos, storageand viewing<br/>         Resolution: 1,920 × 1,080 pixels or better<br/>         Optical Magnification: Up to 30 times continuous or moreZoom Working distance: 250 – 300 mm or moreautofocus and manual focus White balance<br/>         Electronic green Color filter or better for vascular structures or pap smearsLED illumination 30,000 lux or more Color temperature 5,500 K or better<br/>         Recording function<br/>         21" Full HD monitor USB, LAN, WLAN, HDMI for connectivityMobile stand with free swiveling arm<br/>         For Uninterruptible Power Supply, UPS should be provided<br/>         Supplied with all standard accessories.<br/> <b>Country of Origin:</b> UK, USA, Europe, Japan or Equivalent.<br/> <b>Should be:</b> ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW<br/>         (Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.<br/> <b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the</p> | 01 | 0 | 0 | 01 | 453700 |
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- a. S. Zamir Hussain Shah, Bio Medical Engineer, Dr. Ruth K.M.Pfau Civil Hosp. Kar. 
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- c. Qazi Muhammad Amir, Bio-medical Technician, Elector-medical Workshop. 
- d. Sunny Mohiuddin, Dy. Director (Procurement), Directorate of Pharmacy, Sindh, Kar. 
- e. Rajeevv Brahman, Pharmacist, Dr. Ruth K.M Pfau Civil Hospital Karachi. 

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |   |   |    |       |
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|     | consignee end.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |   |   |    |       |
| 18. | <b>CTG MACHINE</b><br><b>Specification:</b><br>TFT digital display screen FHR<br>- Measurement method: Ultrasound Pulsed Doppler<br>- Ultrasonic frequency: 2.0MHz or less, deviation less than±10%<br>- FHR Measurement Range: 50bpm -200bpm or better<br>Resolution:1bpm Accuracy: ±2bpm TOCO<br>- Measurement method: Strain Gauge Sensor Element<br>- Measurement range: 0-100units Resolution: 1% FM<br>- Measurement method: Doppler ultrasound<br>- FM intensity measurement range: 0-40 or better<br>- Resolution:1%<br>- Model: Auto/Manual<br>Color LCD display<br>Built-in large capability rechargeable battery<br>Built-in thermal printer<br>Built-in CTG analysis system<br>Multiple display interfaces can be easily switched<br>Monitor the maternal and fetal parameters simultaneously<br>TWIN monitoring function & clinical event mark function<br>CTG data storage & review for 100h or better<br><b>Each unit includes:</b><br>All standard accessories<br>• 1 x Ultrasound Transducer<br>• 1 x Toc Transducer.<br>• 1 x Belts for Transducers<br>• 1 x Event Marker<br>• 1 x Recorder Paper<br>• 1 x Power Cord<br>1 x Gel Bottle – 250 ml/Bottle<br>Country of Origin: UK, USA, Europe, Japan or equivalent.<br>Should be: ISO-13485 (Mandatory) & CE, JIS, FDA, MHLW<br>(Other than UK, USA, Europe & Japan) will be accepted if equivalent have any Two Certificate.<br>Warranty: Warranty period shall be of three years starting from date of installation of equipment to the consignee end. | 01 | 0 | 0 | 01 | 22700 |
| 19. | <b>Delivery table</b><br><b>Specifications:</b><br>- Gynecological examination and delivery table, 3 sections<br>- Mounted on 4 sturdy supports, all Anished                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 03 | 0 | 0 | 03 | 18150 |

**Prepared/Reviewed by following members of Technical Committee (Machinery Equipment / Furniture etc):**

a. S. Zamir Hussain Shah, Bio Medical Engineer, Dr. Ruth K.M. Pfau Civil Hosp. Kar. *Zamir*

b. Majid Ali, Senior Equipment Engineer, NICH, KARACHI. *Majid*

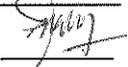
c. Qazi Muhammad Amir, Bio-medical Technician, Elector-medical Workshop. *Qazi*

d. Sunny Mohiuddin, Dy. Director (Procurement), Directorate of Pharmacy, Sindh, Kar. *Sunny*

e. Rajeevv Brahman, Pharmacist, Dr. Ruth K.M Pfau Civil Hospital Karachi. *Rajeev*

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |   |   |    |        |
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|     | <p>with fixed height</p> <ul style="list-style-type: none"> <li>- All sections fitted with non-removable padded upholstery 4" Mattress(Master)</li> <li>- Robust mechanics allow for manual repositioning of all sections between &amp;ynecological and obstetric use</li> <li>- Transfer bars connect all lower distal portions of the 4 supports, providing maximal structural strength</li> <li>- Back section: Adjustable via secured clutch lever, safe for patient and operator</li> <li>- Pelvic section: Fixed base position for sitting</li> <li>- Sides of this section are fit with side rails collapsable</li> <li>- Padded lithotomy poles are height adjustable, set with robust clamps with heavy knob</li> <li>- This section integrates a support for a slide-out basin-tray</li> </ul> <p>Leg section:<br/>Recesses entirely downwards, 90 degrees<br/>When elevated and fully extended, all sections align to a perfectly flatsurface.<br/>High resistance to corrosion (tropical environment)<br/>Frame: epoxy coated steel; all metal parts are epoxy coated steel<br/>Feet covered with PVC<br/>Padded upholstery: high-density polyurethane foam, density 27-33 kg/m3<br/>Cover: plastic, flexible highly tear resistant, anti-static, flame retardant,disinfectant- and liquid proof, washable<br/>Basin-tray: Austenitic stainless steel, 18/10<br/>All 3 sections extended, including padding: 6.5 x 2.5 x 3 ft<br/>Carrying capacity: 135-165 kg<br/>Slide-out basin-tray, capacity: 4L<br/>Knockdown construction<br/><b>Country of Origin:</b> IMPORTED/ EXPORT QUALITY.<br/>Should be: ISO-13485, CE/ ISO-14001 (Anyone).<br/><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p> |    |   |   |    |        |
| 20. | <p><b>Baby incubator</b><br/><b>Specification:</b></p> <ul style="list-style-type: none"> <li>• Must have front and rear double-walls which allow heated air flow between the walls to</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 03 | 0 | 0 | 03 | 181500 |

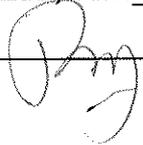
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- conserve heat. Automatic air curtain design, when the access panel is opened, heated air flow is accelerated to prevent heat loss.
- Trend for 2, 4, 8, 12, 24 hours and up to 7 days for air and skin temperature, humidity, oxygen and weight.
  - Must have electronic up and down function.
  - Can be operated from both sides of the cabinet.
  - Ambient temperature monitoring is able to compare the gap between ambient and setting temperature and changing heating power output accordingly in order to provide more stable inside hood air temperature.
  - Must have PID fuzzy algorithm
  - Can monitor not only hood air temperature but also radiator and circuit air temperature. By collecting each parts temperature information.
  - Big storage cabinet and two size of drawers available. Special latch and catch makes the drawer open and close smoothly.
  - 7" or more LCD display relevant information can be observed easily.
  - Cabinet can be easy to remove and install.
  - All the operation can be completed at front side and don't need to move to other side.
  - Dual-CPU design to avoid single failure. Distinguish data collection and control from two CPU.
  - Eight Tube accessing port.
  - Electronically Mattress tilt +12 degree to -12 degree or better
  - Noise level: 45 dBA or below.
  - Battery backup: 30 minutes or better for support air circuit monitoring and alarms
  - Skin temperature and air temperature control mode.
  - Skin control temperature range: 34°C – 37°C
  - Skin control override temperature range: 37.1°C – 38°C
  - Skin temperature display accuracy:  $\pm 0.3^\circ\text{C}$  or better
  - Dual skin temperature monitoring (T1, T2)
  - Air temperature control range: 20°C – 37°C
  - Air temperature override control range: 37.1°C – 39°C
  - Air temperature display accuracy:  $\pm 0.3^\circ\text{C}$  or better
  - Heater output: 0 – 100 %

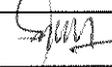
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|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |   |   |    |       |
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|     | <p>Trend time: 24 hours of air temperature, skin temperature, relative humidity, oxygen concentration and heater power.</p> <ul style="list-style-type: none"> <li>• Humidity control mode: Servo controlled</li> <li>• Humidity control range: 30% to 95% Rh in 1% increment</li> <li>• Humidity control reservoir capacity: 1.5 liter (1500 ml) or better</li> <li>• Humidity display accuracy: <math>\pm 5\%</math> Rh or better</li> </ul> <ul style="list-style-type: none"> <li>• Visual and audible battery buffered/powerd alarms for high and low skin &amp; air temperature, skin probe disconnect, cutout, electronic circuit failure, fan failure, system failure, power failure, stuck key, sensor disconnect, sensor module failure, air flow probe failed, battery disconnect, sensor outof position, access panel open, oxygen cell difference, add water, humidity heater failure.</li> </ul> <ul style="list-style-type: none"> <li>• <b>STANDARD ACCESSORIES</b></li> <li>• Skin temperature probe</li> <li>• Saturation probe</li> <li>• IV pole</li> <li>• Replaceable bacterial filter</li> <li>• Mattress</li> </ul> <p><b>Country of Origin: UK, USA, Europe, Japan or equivalent.</b><br/> <b>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW</b><br/> (Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.<br/> <b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p> |    |   |   |    |       |
| 21. | <p><b>Phototherapy unit</b><br/> <b>Specification:</b></p> <ul style="list-style-type: none"> <li>• Standalone (floor mounted) phototherapy light with 3.5 inch or better LCDTFT color touch control screen.</li> <li>• Time of the neonate irradiation in decreased by twice</li> <li>• Operation noiselessness</li> <li>• Reduction of electrical energy consumption</li> <li>• Light intensity adjustable from 0 to 100% (%5 increment)</li> <li>• Effective area illumination and focusing</li> <li>• Light Source: 16 pcs Blue Super LED and 4 pcs white LED forexamination</li> <li>• Life-time of the Lamps:</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01 | 0 | 0 | 01 | 22700 |

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|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |   |   |    |        |
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|     | <p>70.000 Hours or more.</p> <ul style="list-style-type: none"> <li>• Spectral Irradiance: 25 – 120 <math>\mu\text{W}/\text{cm}^2/\text{nm}</math> or better.</li> <li>• Illumination intensity: 1500 lux or better.</li> <li>• Real time clock and date display on the main screen.</li> <li>• 0-99h treatment Timer &amp; Down-Counter.</li> <li>• Easy use for incubator and baby cribs.</li> <li>• Skin temperature measurement</li> <li>• 360° rotatable head module in all directions.</li> <li>• Suitable to use stand alone without trolley</li> <li>• Light source without emitting heat, UV and IR (super LEDs). <ul style="list-style-type: none"> <li>• Wavelength Range 450-500 nm or better.</li> <li>• Noise Level: &lt; 30 dB or better</li> <li>• Treatment Timer: 1 – 999 hour.</li> <li>• Operation conditions temperature: 10° – 40°C.</li> <li>• Humidity: 5 to <math>\leq 90</math> RH.</li> <li>• Power Voltage: 110-230 VAC.</li> <li>• Frequency: 50/60 Hz.</li> </ul> </li> </ul> <p>Country of Origin: UK, USA, Europe, Japan or Equivalent..<br/> <b>Should be:</b> ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW<br/> (Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.<br/> <b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p> |    |   |   |    |        |
| 22. | <p><b>Radiant warmer</b></p> <p><b>Specification:</b></p> <ul style="list-style-type: none"> <li>• Mobile Baby warming system with bassinet.</li> <li>• Microprocessor controlled heating system.</li> <li>• 8 inch LCD touch screen with knob</li> <li>• Centralized display of all neonatal waveform</li> <li>• Ambient screen sensor automatically adjust screen brightness</li> <li>• Night and day model switches</li> <li>• Low lightness far infrared ceramic heating lamp</li> <li>• Modes: Manual, Servo</li> <li>• Adjustable rate of skin temp 30°C - 38°C or better and display range temp 30°C -40°C or better</li> <li>• Noise Level s 45 dB or better</li> <li>• Tillable bed</li> <li>• Audible and Visual high and low temperature alarms.</li> <li>• Heater output (%) 0 to 100 (in 5% increment)</li> <li>• CPR timer (%) 0 to 60.</li> <li>• APGAR Timer</li> <li>• APGAR / CPR switchable mode <ul style="list-style-type: none"> <li>• Integrated observation lamp</li> <li>• Lighting intensity: 1200 Lux or more</li> </ul> </li> <li>• Integrated electronic height adjustment</li> </ul>                                                                                                                                                                                                                                                                            | 02 | 0 | 0 | 02 | 121000 |

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- Majid Ali, Senior Equipment Engineer, NICH, KARACHI. *MA*
- Qazi Muhammad Amir, Bio-medical Technician, Elector-medical Workshop. *QMA*
- Sunny Mohiuddin, Dy. Director (Procurement), Directorate of Pharmacy, Sindh, Kar. *SM*
- Rajeevv Brahman, Pharmacist, Dr. Ruth K.M Pfau Civil Hospital Karachi. *RJB*



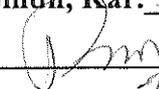
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| 24. | <p><b>Overhead warmer</b></p> <p><b>Specification:</b></p> <p>8 inch or more LCD touch screen with knob Centralized display of all neonatal waveform<br/> Ambient screen sensor automatically adjust screen brightness<br/> Night and day model switches<br/> Low lightness far infrared ceramic heating lamp<br/> Ambient noise and light level display<br/> Hand free alarms silence<br/> Mattress must be of Environmental silicone gel, with great biocompatibility soft and comfortable, great<br/> Thermos performance.<br/> Anti-bacterium, easy to clean and disinfect as well as reduce bed sore<br/> Integrated Phototherapy light<br/> Integrated weight scale and resuscitation<br/> Integrated Suction function<br/> Integrated Electronic Trolley Up-Down Movement.</p> <p><b>RESUSCITATION UNIT</b></p> <p>Manometer pressure indication 2-8Kpa or more Suction pressure control range 0 – 26Kpa<br/> Resuscitation flow unit Pmax Setting and default setting</p> <p><b>STANDARD ACCESSORIES</b></p> <p>Skin temperature probe<br/> IV pole<br/> Monitor stand Integrated built in light<br/> Replaceable bacterial filter<br/> Mattress</p> <p><b>Country of Origin: UK, USA, Europe, Japan or equivalent.</b><br/> <b>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW</b><br/> (Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.<br/> <b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p> | 02 | 0  | 0 | 02 | 121000 |
| 25. | <p><b>Portable x-ray machine 100 MA</b></p> <p><b>Specification</b></p> <ul style="list-style-type: none"> <li>• Mobile X-ray machine for used of hospital, physical examination vehicle, emergency room, radiology department and bone surgeries</li> <li>• Easy to carryout work in different areas and locations</li> <li>• Input voltage 220v, 50Hz</li> <li>• Operating frequency: 20 kHz or more</li> <li>• X-Ray Generator: High frequency invertertechnology</li> <li>• Output power: 4 KW or more</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0  | 01 | 0 | 01 | 151250 |

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|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |    |   |    |        |
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|     | <ul style="list-style-type: none"> <li>KV Range: 40 kV to 120 kV in 01 kV Steps</li> <li>mA Range: Max. 100mA or better</li> <li>mAs range : 10 mAs to 200 mAs or better</li> <li>Focus Size : 1.8 mm or better</li> <li>Anode heat storage capacity : 40 KHU or better</li> <li>Standard power supply cable, standard x-ray exposure switch cable</li> <li>Certifications: FDA 510(k) / CE / JIS</li> </ul> <p>Country of Origin: UK, USA, Europe, Japan or equivalent.<br/>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW<br/>(Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.<br/>Warranty: Warranty period shall be of three years starting from date of installation of equipment to the consignee end</p> |   |    |   |    |        |
| 26. | <p><b>Minor Spot light</b></p> <p><b>Specification:</b><br/>LED type, life at least 50000 hours. Hermetically dust proof lamp head. Minimum light output 30,000 lux or better Color temperature 4400 Kelvin or better Field of illumination: up to 10 cm or better Working distance 30 cm to 50 cm<br/>Mobile / Fixed Mobile trolley<br/>Power requirements 220 V; 50 Hz<br/>Country of Origin: UK, USA, Europe, Japan or Equivalent.<br/>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW<br/>(Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.<br/>Warranty: Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p>                                   | 0 | 01 | 0 | 01 | 24000  |
| 27. | <p><b>Laser diode microscope complete set</b></p> <p><b>Specification:</b></p> <ol style="list-style-type: none"> <li>Floor stand mount microscope body with zoom (ratio 1:5 or better).</li> <li>Linear/Continuous zooming</li> <li>Built-in coaxial illumination with red reflex.</li> <li>Motorized fine focusing and manual or motorized coarse focusing</li> <li>Objective f=175mm/ f=200 mm</li> <li>Binocular tube: inclined at a variable angle</li> <li>Eyepiece: 10 X or 12.5X with dioptic adjustment</li> <li>Halogen/LED illumination with controllable intensity with/without fiber optic cable</li> <li>Water proof foot control panel.</li> </ol>                                                                                                           | 0 | 01 | 0 | 01 | 347875 |

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|     | <p>10. Sterilizeable protective caps for all drive knobs</p> <p><b>Accessories:</b></p> <p>1. 06 spare halogen lamps (in case of halogen illumination).</p> <p>2. Dust cover.</p> <p><b>Country of Origin: UK, USA, Europe, Japan or equivalent.</b></p> <p><b>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW</b></p> <p>(Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.</p> <p><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |    |    |    |       |
| 28. | <p><b>Tympanometer</b></p> <p><b>Specification:</b></p> <p><b>Tympanometry Mode</b><br/>         Probe Tone 226 Hz, ± 2%<br/>         Harmonic Distortion &lt; 3% or better Pressure Range +200 to -400 daPa or better Pressure Accuracy ± 10 daPa<br/>         Direction of Sweep Positive to negative<br/>         Tympanogram Test Time Approximately 1 second</p> <p><b>Reflex Mode</b><br/>         Frequencies 500, 1000, 2000, and 4000 Hz for ipsilateral stimulation Accuracy ± 3% Total Harmonic Distortion &lt; 5% or better Pressure Reflex measures are set automatically to pressure at peak compliance Reflex Test Time 1 to 15 seconds or better</p> <p><b>Audiometry Mode</b><br/>         Frequencies 125, 250, 500, 750, 1000, 1500, 2000, 3000, 4000, 6000, 8000 Hz Accuracy ± 2% Total Harmonic Distortion &lt; 2.5% Audiometric Headset Pair External earphones Headband force 4.5 N ± 0.5 External Headset Earphones 125 Hz: -10 to 50 dB HL; 500 to 4000 Hz: -10 to 90 dB HL; 6000 Hz: -10 to 85 dB HL; 250 and 8000 Hz: -10 to 70 dB HL Accuracy ± 5 dB or better<br/>         Rise/Fall Time 20 to 50 msec. or better<br/>         Continuous Tone is steady when present bar is depressed Pulsed Tone is pulsed at 2.5/sec or better frequency modulated Tone is frequency modulated at a rate of 5 Hz, ±5% or better Power Line Voltage 100 - 240 VAC (± 10%) With all standard accessories</p> <p><b>Country of Origin: UK, USA, Europe, Japan or Equivalent.</b></p> <p><b>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW (Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two</b></p> | 0 | 01 | 01 | 02 | 42350 |

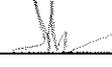
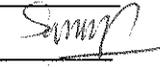
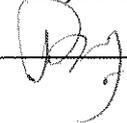
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|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |    |    |    |        |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|----|----|--------|
|     | <p>17. Image &amp; Video recording.</p> <p>18. Accessories: Sterilization system and complete with all standard accessories Country of Origin: UK, USA, Europe, Japan or equivalent.</p> <p><b>Should be:</b> ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW</p> <p>(Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.</p> <p><b>Warranty:</b> Warranty period shall be of three years starting from date of satisfactory installation of equipment.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |    |    |    |        |
| 30. | <p><b>Dental chair complete (dental unit with compressor &amp; suction machine ultrasonic scaler)</b></p> <p><b>Specification:</b></p> <p><b>Dental Unit (Complete with Chair, Light, Hand Piece unit with hand places, suction &amp; compressor.)</b></p> <p><b><u>Patient's Chair</u></b></p> <p>Manually adjustable flat headrest with magnetic cushion</p> <p>Right armrest swiveling for entry and exit of patient while left one is fixed Number of Profiles: 02</p> <p>Number of Chair Programmable per Profile: 04</p> <p>3 favorite buttons for individualized instrument settings Programmable Starting and Rinsing positions</p> <p>Extendable foot rest for ergonomic treatment of long patients Chair movement through silent electric motors</p> <p>Automatic Emergency stop of chair once it meets an obstacle</p> <p>Synchronized movement of backrest and seat cushion by electromechanical motors prevents construction/over extension of the patient. The position of the patient's head on the headrest remains constant when the chair is lowered.</p> <p>4-way Joystick for adjustment of chair &amp; backrest positions</p> <p>Standard Pneumatic Foot switch for controls of hand pieces</p> <p><b><u>Dentist's Element</u></b></p> <p>Dentist Element with hanging hoses and adjustable arm with pneumatic brakesystem</p> | 0 | 01 | 01 | 02 | 211750 |

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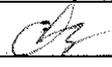
Five-fold Seven Segment Display and LED Status Indicator Touch sensitive control panel with autoclaveable silicone cover  
 Touch sensitive control buttons for the individual chair functions, Programs, Lighton/off and Intensity as well as for spittoon bowl and cup filler.  
 Easy clean feature – disables all the movements / controls of the unit for easy cleaning  
 Hand piece holders without lockouts  
 Number of Hand piece positions including 3way syringe: 05  
 Hand piece priority system (if one Hand piece in use others will not operate while lifting from holder)  
 3x hanging hoses, fiber optic type  
 1 x 3-way syringe with autoclavable tip  
 1x High Speed air turbine push button type with 400,000 rpm 1x Slow Speed Air motor with internal water spray  
 Speed range from 2000-40000 rpm or better. Forward and reverse modes  
 1x Built-in Ultrasonic Fiber Optic Scalar frequency 28-36 kHz with sterilize-able hand piece and tips of same manufacturer. Water regulation on the scalar hand piece. Scaling and Endo mode  
 Complete with straight and contra angle attachments Removable silicone tray pad  
 Removable hand piece holder and tubing for cleaning and disinfection.

**Assistant's Element**  
 Number of hand piece positions including 3way syringe: 04  
 Integrated USB port to connect the external media products 1 x 3-way syringe with autoclave able tip  
 1 x High Volume Evacuation hose, autoclave able suction hand pieces with adjustment suction pressure  
 1 x saliva ejector hose, autoclave able suction hand piece with adjustment suction pressure  
 X-ray Viewer

**Water Unit**  
 Automatic Bowl Rinse function Fixed on chair base



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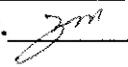
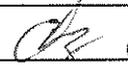
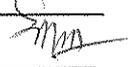
|     | <ul style="list-style-type: none"> <li>• Bone conduction</li> <li>• Bulletin Thermal printer/ separate printer</li> <li>• Automatic Cynelroniged Tone&amp; Masking</li> <li>• Special Earphone CUPS-Enhances Noise Reductions</li> <li>• 8000 plus patients Test Memory</li> <li>• Intensity Rage</li> <li>• Air conduction 10DBHL+120DBHL</li> <li>• Bone Conduction 10DBHL+80DBHL</li> </ul> <p>Country of Origin: UK, USA, Europe, Japan or equivalent.<br/>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW<br/>(Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.<br/>Warranty: Warranty period shall be of three years starting from date of satisfactory installation of equipment</p> |         |             |         |    |                                                                        |    |   |   |    |    |        |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------|---------|----|------------------------------------------------------------------------|----|---|---|----|----|--------|
| 33. | <b>fiberoptic dilators ( Gum Elastic b )</b><br><b>Specification:</b><br>Imported/ Export Quality<br><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0       | 0           | 01      | 01 | 27225                                                                  |    |   |   |    |    |        |
| 34. | <b>Strobe scope with monitor</b><br><b>Specification:</b><br>Country of Origin: UK, USA, Europe, Japan or Equivalent.<br><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0       | 0           | 01      | 01 | 46875                                                                  |    |   |   |    |    |        |
| 35. | <b>Surgical chair</b><br><b>Specification:</b><br>Should be made up high quality SS Steel Imported/ Export Quality or Equivalent. , CE/ ISO-14001 (Any One).<br><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0       | 0           | 02      | 02 | 6050                                                                   |    |   |   |    |    |        |
| 36. | <b>Central oxygen lining with Nitrous points with attachment</b><br><b>Specification:</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">S#</th> <th style="width: 85%;">DESCRIPTION</th> <th style="width: 10%;">QT<br/>Y</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>O<sub>2</sub> MANIFOLD 2 X 10 (20 Cylinders)<br/>MANIFOLD BANK HTM 02-</td> <td>01</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                   | S#      | DESCRIPTION | QT<br>Y | 1. | O <sub>2</sub> MANIFOLD 2 X 10 (20 Cylinders)<br>MANIFOLD BANK HTM 02- | 01 | 0 | 0 | 01 | 01 | 968000 |
| S#  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | QT<br>Y |             |         |    |                                                                        |    |   |   |    |    |        |
| 1.  | O <sub>2</sub> MANIFOLD 2 X 10 (20 Cylinders)<br>MANIFOLD BANK HTM 02-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 01      |             |         |    |                                                                        |    |   |   |    |    |        |

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- d. Sunny Mohiuddin, Dy. Director (Procurement), Directorate of Pharmacy, Sindh, Kar. *Sunny*
- e. Rajeevv Brahman, Pharmacist, Dr. Ruth K.M Pfau Civil Hospital Karachi. *Rajeev*

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |  |  |  |  |  |  |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|--|--|--|--|--|
|    | <p>01 60M3/H - O2 Change-Over Manifold System designed to supply medical gas to the piping network from ramps of high-pressure cylinders in accordance with European Directive 93/42/EEC.</p> <p><b>Main specifications:</b> - Norm: HTM - Flow: 60 m3/h –Medical gas: O2<br/>Cylinder connection type: pigtails - Cylinder connection standard:BS<br/>- Alarm panel: yes - Number of ramps: 2<br/>- Number of pigtails: 10+10</p> <p><b>Main components:</b> - High-pressure regulators - High pressure valves - High pressure filters - High and low-pressure gauges - Alarm pressure switches</p> <p>The system includes mural ramp(s) featuring: - Connecting high pressure pigtails with the required fittings - Cylinders seats in linear racks for easy and safe set-up of the cylinders - Individual check valves - Individual stop valves</p>                                 |    |  |  |  |  |  |  |
| 2. | <p><b>N<sub>2</sub>O MANIFOLD 2 X 4 (8 Cylinder)</b><br/>MANIFOLD BANK HTM 02-01 60M3/H - O2 Change-Over Manifold System designed to supply medical gas to the piping network from ramps of high-pressure cylinders in accordance with European Directive 93/42/EEC.</p> <p><b>Main specifications:</b> - Norm: HTM - Flow: 60 m3/h - Medical gas:N2O - Cylinder connection type: pigtails - Cylinder connection standard: BS - Alarm panel: yes - Number of ramps: 2- Number of pigtails: 4+4</p> <p><b>Main components:</b> - High-pressure regulators - High pressure valves - High pressure filters - High and low-pressure gauges - Alarm pressure switches</p> <p>The system includes mural ramp(s) featuring: - Connecting high pressure pigtails with the required fittings - Cylinders seats in linear racks for easy and safe set-up of the cylinders - Individual check</p> | 01 |  |  |  |  |  |  |

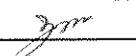
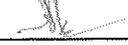
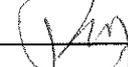
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|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                              |  |  |  |  |  |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--|--|--|--|--|
| 7.  | <b>Double Arm Anesthesia/surgical Ceiling Pendants:</b> <ul style="list-style-type: none"> <li>Each pendent comprises 02 Oxygen, 2 Air 4Bar &amp; 1 Nitrous Oxide Point Flat Surface Electric System with 4 to 8 Electric Sockets.</li> </ul>                                                                                                                                                                                                                                                                                                                                     | 06 Nos.                                                      |  |  |  |  |  |
| 8.  | <b>Oxygen Flow Meter With Humidifier &amp; Probes</b><br>With autoclave able and unbreakable humidifier bottle and probe.                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 120 Nos.                                                     |  |  |  |  |  |
| 9.  | <b>Copper Piping:</b> <ul style="list-style-type: none"> <li>Supply and installation of seamless copper pipe, deoxidized and for use in piped medical gas systems</li> <li>Therefore it is guaranteed that the tubes are leak-tight, free of pores, blisters etc, Tube is drawn seamless, according to HMT 2022 (HTM 02-01) Or equivalent.</li> <li>Material :-</li> <li>Copper tubes, including fixing clips for ceiling and walls, sleeves, reducers, tee's bends and soldering material.</li> <li>Size ½ inch dia</li> <li>Size ¾ inch dia</li> <li>Size 1 inch dia</li> </ul> | 50<br>00<br>R<br>ft<br><br>40<br>00<br>Rft<br><br>500<br>rft |  |  |  |  |  |
| 10. | <b>Anesthesia Scavenging System</b><br>Anesthetic gas scavenging systems designed to remove exhaled anesthetic gas mixtures from operating theatres driven by Air/Oxygen at 05 bar or through vacuum plant, anesthetic rooms and recovery area.                                                                                                                                                                                                                                                                                                                                   | 03 Nos.                                                      |  |  |  |  |  |
| 11. | <b>Oil Free Duplex Air Compressor System</b> <ul style="list-style-type: none"> <li>01 DUPLEX SYSTEM</li> <li>100% oil free 10 HP</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01 No.                                                       |  |  |  |  |  |

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duplex Medical Air Compressor Plan with air dryer, filters, Bypass system, Electrical Panel

- Air Compressor System x 2
- Motor Power (KW / HP): 7.7 / 10
- Piston Displacement: 541 lit/min
- Free Air Flow: 440 lit/min
- Working Pressure: 9.5 KG/CM2G (135 PSI)
- Power Source: 380V / 3PH / 50HZ
- N

noise Level: 74 dB(A) at 1.5 Meter Tank: 125 Liters Air Dryers

- 2 x Dryer
- Volume Flow Rate @ Inlet: 1200 lit/min @80 °C
- Max. Operating Pressure: 14 barg.
- Max. Ambient Temperature: 45 °C
- Pressure Dew Point: +3 °C
- Refrigerant:
- Power Source: 230V / 1PH / 50HZ

**Filtration**

- 2 x Pre-Filter: FT-012P – 1200 lit/min (3 Micron) ½”
- 4 x After-Filter: FT-012X – 1200 lit/min (0.01 Micron) ½”
- 1.9) By Pass System (Local with Imported Fittings):
- Isolation Valves, Adaptors, Regulators & Pressure Switches.

Electrical Panel

*Handwritten signature*

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|     |                                                                                                                                                                                                                    |                 |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|     | <ul style="list-style-type: none"> <li>Simple Controlled Electrical Panel, Pressure based Automatic Switching between Compressors, Contractors, Overload, Power Indication Lights and Circuit Breakers.</li> </ul> |                 |
| 12. | <b>Bed Head Unit –</b><br>Wall to wall bed head units/panels<br>Electrical: Socket 04 nos. with Standard Wiring having Grounding Cable Gases outlets: 2nos Oxygen 02 Air 4 bar                                     | As per required |
| 13. | <b>Area Alarm Panel</b><br>Digital controlled Warning Device (Audio / Visual) For Oxygen /Nitrous oxide /Air 4 bar                                                                                                 | 25 Nos          |
| 14. | <b>Oxygen Cylinder</b><br>BOC tested/ 240 CFt oxygen cylinders                                                                                                                                                     | 50 Nos          |
| 15. | <b>Nitrous Oxide Cylinders</b><br>BOC tested                                                                                                                                                                       | 16 Nos          |

**Country of Origin: UK, USA, Europe, Japan or equivalent.**

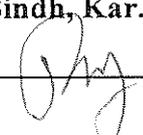
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(Other than UK, USA, Europe & Japan) will be accepted if equivalent have any Two Certificate.

**Warranty:** Warranty period shall be of three years starting from date of installation of equipment to the consignee end.

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |    |   |    |       |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|---|----|-------|
| 37. | <b>Water Bath</b><br><b>Specification:</b><br>Microprocessor PID-temperature controller<br>Exterior body of steel sheet Double skinned tank, inner case made of stainless steel Perforated stainless steel bottom tray Temperature control for regulation of temperature Gabled lid Power Source 220V, 50HZ AC User Adjustable Settings:<br>Capacity of 20-25 Liters<br>Adjustable temperature range from +5C above ambient up to 100C Temperature accuracy of + 1% Displayed<br><b>Parameters:</b><br>Built in thermometer Digital display of temperature and time Adjustable timer for time setting | 01 | 01 | 0 | 02 | 48400 |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|---|----|-------|

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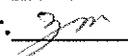
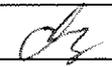
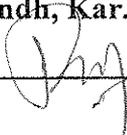
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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|-------|
|     | <p>Fault indication system Over temperature protection system Accessories:<br/> Three Racks of different sizes<br/> Servo Controlled Voltage Stabilizer with surge protection facility With drain tap<br/> Operating Manual with a Soft Copy<br/> <b>Country of Origin: UK, USA, Europe, Japan or equivalent.</b><br/> <b>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW</b><br/> (Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.<br/> <b>Warranty:</b> Warranty period shall be of three years starting from date of satisfactory installation of equipment to the consignee end.</p>                                                                                                                                                                                   |    |    |    |    |       |
| 38. | <p><b>Blood Bag Sealer</b><br/> <b>Specification:</b><br/> For electric handling and processing of blood bags<br/> Microprocessor controlled high frequency generator unit<br/> Adjustable sealing time up to 5 sec or less<br/> Rechargeable battery operated unit with charging unit<br/> Hand held sealer with 2 meter or more cable<br/> 220V 50 Hz, AC User Adjustable Settings:<br/> Battery backup for 500 or more sealing<br/> Displayed Parameters: Digital Display of Temperature, No. of Sealing etc. Over temperature alarms<br/> Complete with standard and operation accessories;<br/> <b>Country of Origin: IMPORT/EXPORT Quality Should be: ISO/CE Certified</b><br/> <b>Warranty:</b> Warranty period shall be of three years starting from date of satisfactory installation of equipment to the consignee end.</p> | 01 | 01 | 0  | 02 | 48400 |
| 39. | <p><b>Blood Bag Rotator</b><br/> <b>Specification:</b><br/> Accept all major brands of bag available in the local market<br/> Mixing of blood bags LCD/LED Display of parameters<br/> Self-Calibration Measuring and shaking of blood bags<br/> Battery operated User Adjustable Settings:<br/> Weight range 1-999 gr/ml<br/> Displayed Parameters: Accuracy +/- 2 %<br/> Error Indication Accessories:<br/> With all Standard Accessories<br/> <b>Country of Origin: UK, USA, Europe, Japan or equivalent.</b><br/> <b>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW</b><br/> (Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.<br/> <b>Warranty:</b> Warranty period shall be of three years starting from date of satisfactory installation of equipment.</p>          | 01 | 02 | 0  | 03 | 72000 |
| 40. | <p><b>Dispenser for Scrub Solution</b><br/> <b>Specification:</b></p> <ul style="list-style-type: none"> <li>Automatic Airborne Sanitizer</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 06 | 02 | 06 | 14 | 30000 |

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|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |   |    |    |        |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|----|----|--------|
|     | <ul style="list-style-type: none"> <li>• Reproducible Log-6 Reduction</li> <li>• Safe and Eco-Friendly Synergy</li> </ul> <p>Our automatic airborne sanitizer raises the standard of Environmental Hygiene thanks to its unique synergy between our boosted Hydrogen Peroxide solution and our sub-micron aerosolization process.</p> <ul style="list-style-type: none"> <li>• Automate HP and its automatic and reproducible airborne disinfection solves the physical limitation of the operators (invisible pathogens and hard to reach surfaces) by spreading a dry-mist across the room, up to 350 m<sup>3</sup>.</li> <li>• Complete unit with 20 bottle Sanitizer automates with dry mist and corrosion free safe boosted H<sub>2</sub>O<sub>2</sub> with each machine.</li> </ul> <p>Country of Origin: UK, USA, Europe, Japan or Equivalent.<br/> Warranty: Warranty period shall be of three years starting from date of satisfactory installation of equipment to the consignee end.</p>                                                                                                                                                                                                                                                                                                                                                                     |    |   |    |    |        |
| 41. | <p><b>Disinfecting Instrument Washer Double Door</b></p> <p><b>Specification:</b><br/> Fully automatic, programmable washer with standard programs. microprocessor controlled based system<br/> Capacity for washing 12 DIN baskets or more. High resolution touch screen.<br/> Built in data printer.<br/> Dual heating system electric and steam.<br/> Washing chamber must be made of stainless steel AISI 316L<br/> Automatic double sliding door made in stainless steel with glass window. Temperature control with two or more temperature probes.<br/> Serial port USB and RS232 for PC connectivity.<br/> Steam condenser to remove the steam and humidity from exhaust vapors during the disinfection phase and improve the drying efficiency.<br/> High pressure drying system with HEPA H13/ H14 air filter or more efficient. Peristaltic pumps with level control sensor for detergents and additives dosing controlled by flow meter.<br/> Equipped with 01 tank for purified water as standard. Built in energy saving system.<br/> Washing chamber LED lighting for inspection of the load during washing cycle. Main switch and emergency stop in front panel.<br/> Reduced water consumption per cycle. Reduced electrical consumption per cycle. UPS backup for control section.</p> <p><b>ACCESSORIES:</b><br/> Loading unloading trolleys: 04</p> | 01 | 0 | 01 | 02 | 500000 |

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**-05/06 level washing trolley: 03**  
 With each dedicated spraying arm plus additional spraying arms on chamber ceiling and bottom

**-MIS trolley: 01**  
 Minimum capacity 18 injectors or above

**-Anesthesia Trolley: 01**  
 Load capacity: 16 sets of respiratory tubes, circular items, respiratory chalk bags, secretion containers, respiratory bags, endotracheal tubes, Guided tubes space for divers small items, hose clamps, etc.

**-Din baskets with handle: 12+**

**-Trolley for container washing: 01**

Country of origin: USA/EUROPE/JAPAN/OR EQUIVALENT

**Should be:** ISO-13485 (Mandatory) & CE, JIS, FDA, MHLW

(Other than UK, USA, Europe & Japan) will be accepted if equivalent have any Two Certificate.

Warranty: 03 years from the date of satisfactory installation.

End-user application training and technical training of engineer to be provided locally by a foreign trained specialist along with training material as per manufacturer's guideline.

Installation and commissioning including (UPS and all kind of attachment Pipe, Wire and etc.) are the responsibility of the supplier.

|     |                                                 |    |    |    |    |        |
|-----|-------------------------------------------------|----|----|----|----|--------|
| 42. | <b>Rotary Sealing Machine with work station</b> | 01 | 01 | 01 | 03 | 180000 |
|-----|-------------------------------------------------|----|----|----|----|--------|

**Specification:**  
 Microprocessor controlled.  
 Bench top type rotary heat sealer to Close sterilization bags, paper plastic Laminate reels. High capacity through feed type.  
 Machine to be tilted forward to enhance ergonomics and save space. Machine to be built and controlled  
 Digital LCD Display Heat up time to 200°C: 180 sec or better  
 Width of the seal: 14mm or more.  
 Seal edge setting: 5 –30mm or more.  
 Temperature adjustment: 50 – 200°C or more, tolerance of 1% of set value. Feed speed 10 Meters/ Minute.  
 Seal type: Multiline seal (4 line) Electrical requirement: 200–240 V, 50–60 Hz Complete with standard accessories and manual

Country of origin: USA/EUROPE/JAPAN OR EQUIVALENT

**Should be:** ISO-13485 (Mandatory) & CE, JIS, FDA, MHLW

(Other than UK, USA, Europe & Japan) will be accepted if equivalent have any Two Certificate.

Warranty: 03 years from the date of satisfactory installation.

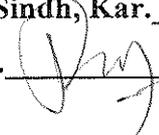
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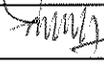
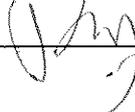
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |   |    |    |        |
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|     | (Other than UK, USA, Europe & Japan) will be accepted if equivalent have any Two Certificate.<br><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |   |    |    |        |
| 46. | <b>Water Distiller complete</b><br><b>Specification:</b><br>Output (l/h): 4 pH 5.5-6<br>Conductivity Treated water (µS/cm) 1.0-2.0<br>Temperature (°C)25-35<br>Waterpressure3-100psi<br>Electrical supply 220 - 240V, 50-60Hz<br>Borosilicate Glass Or equivalent<br>Installation and all accessories must be included 3 years Warranty after successful installation Operator, service manual and spare parts catalogue must be provided in both hard and digital copy All consumables/spare required replacement within 10 years of normal operation must be quoted optionally.<br><b>Warranty:</b> Warranty period shall be of three years starting from date of satisfactory installation of equipment to the consignee end.<br><b>Local / Export Quality.</b>                                                                                                                                    | 01 | 0 | 01 | 02 | 300000 |
| 47. | <b>High Quality Magnifying Loupes</b><br><b>Specification:</b><br>Line of binocular loupes with same features of traditional line but mounted on an extralight, fashionable frame.<br><br>• Style binocular Loupe<br>• Magnification: 2.5X<br>• Working distance: 340 mm or more Lightweight, ergonomically superior<br>Multi-coated and high grade glass lenses provide clean and sharp image. Eyepiece with wide field of view.<br>Deep focus to see object stereoscopically.<br>Loupes angles can be easily adjusted between 0° and 40° or better to minimize fatigue even after prolonged use.<br>Adjustable pupil distance to fit different face types.<br><b>Country of Origin:</b><br>IMPORTED / EXPORT QUALITY. Should be:<br>ISO/CE certified<br><b>Warranty:</b> Warranty period shall be of three years starting from date of satisfactory installation of equipment to the consignee end. | 01 | 0 | 01 | 02 | 24000  |
| 48. | <b>Electric / Pneumatic Dermater</b><br><b>Technical Specification</b><br>Power max. 250W Speed max. 6.500min-1<br>Cutting width max. 78mm Cutting thickness 0,2-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 01 | 0 | 01 | 02 | 150000 |

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|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |    |    |    |        |
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|     | <p>1,2mm Weight (incl. battery &amp; lid) 1250g LI-LON BATTERY SHORT LID STERILE FUNNEL</p> <p>BATTERY REMOVAL DEVICE CHARGING UNIT</p> <p><b>Technical Specification</b></p> <p>Mains voltage ranges 220V~to240V~ Current consumption 0,5A(220V~to240V~) Charge current max. 1,2A</p> <p>Weight (incl. battery &amp; lid) 2.300g</p> <p>DERMATOME BLADES</p> <p>F/WAGNER DERMAT. STERILE</p> <p>MAINS CORD 5M LONG</p> <p>SET F/ACCULAN DERMATOME</p> <p>PRO 1/1 LID GOLD Sterilization container</p> <p>Validated for 5000 Cycles BOTTOM FOR 1/1 CONTAINER HEIGHT: 120MM</p> <p><b>Country of Origin: UK, USA, Europe, Japan or equivalent.</b></p> <p>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW</p> <p>(Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.</p> <p><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p>                                                                                                                                                              |    |    |    |    |        |
| 49. | <p><b>Auto refractor meter</b></p> <p><b>Specification:</b></p> <p>Accurate refraction measurement Auto tracking and auto shot Digital color LCD screen Built-in printer with easy loading and auto cutting Spherical: <math>\pm 20D</math> or better. Cylinder: <math>\pm 10 D</math> or better. Axis: 1 to 180 Degree. Pupil distance: Max 85mm (increment 1mm). Pupil diameter: <math>\varnothing 2</math> mm</p> <p>Curvature radius: 5.00mm to 10.00mm or better</p> <p>Refractive Power: 35 to 66D or better</p> <p>Axis: 1 to 180 Degree. Motorized chinrest movement</p> <p>Electric power: 220-240V AC, 50Hz. Accessories: Standard accessories, with 6 paper roll, dust cover and cleaning kit.</p> <p>On locally made motorized table</p> <p><b>Country of Origin: UK, USA, Europe, Japan or equivalent.</b></p> <p>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW</p> <p>(Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.</p> <p><b>Warranty:</b> Warranty period shall be of three years starting from date of satisfactory installation of equipment</p> | 01 | 01 | 01 | 03 | 150000 |
| 50. | <p><b>Lensometer</b></p> <p><b>Specification:</b></p> <ol style="list-style-type: none"> <li>Type: ocular internal reading with eye piece.</li> <li>Target: Pinhole corona.</li> <li>Vertex power range: 0 to <math>\pm 25D</math> or better.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 01 | 01 | 0  | 02 | 60000  |

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|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |   |    |    |       |
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|     | <p>4. Steps: 0.25D or better.<br/> 5. Cylinder axis: 0 to 180 degree<br/> 6. Prismatic power range: 5 prism D.<br/> Electricity: 220V, 50Hz AC, or battery operated.<br/> . Illumination LED / Halogen<br/> <b>Accessories :</b><br/> 1. With one spare bulb (only for halogen illumination).<br/> Imported/ Export Quality<br/> Should Be: ISO Approved Or CE Marked.<br/> Warranty: Should be Standard 03 Years Warranty from the date of satisfactory installation</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |   |    |    |       |
| 51. | <p><b>Posterior Vitrectomy</b><br/> <b>Specification:</b><br/> 1. Vitrectomy cutter type: Pneumatically Driven 23G, 25G / 27G Compatibility disposable or autoclavable<br/> Cutting Rate: Range Min 4000 cuts per minute or better.<br/> 2. Actuating Medium: Pressurized Air from external source.<br/> 3. Control: Linear / Dual linear system foot switch &amp; screen.<br/> 4. Diathermy: Bipolar 23G, 25G / 27G compatibility. (Auto clavable or Disposable).<br/> 5. Fluidics: Vacuum up to 500mmhg or better.<br/> 6. Cassette: Disposable. Tubing set: Autoclavable / Disposable<br/> 7. Pump Type: Venturi / Peristaltic<br/> 8. Scissors &amp; Forceps: Compatible.<br/> 9. Startup Accessories Kit.<br/> 10. Illumination type: Min two independent light sources or converter compatible.<br/> 11. Illumination bulb type: Xenon or LED.<br/> 12. Tamponade: Oil injection module, extraction module, air tamponade<br/> 13. Phaco Emulsification Hand piece 4 crystal or better. (Quantity 2)<br/> 14. Fragmatome: Intravitreal fragmentation compatible.<br/> 15. With original trolley and motorized bottle height control.<br/> 16. Electric power: 200 – 240V, 50Hz AC,<br/> <b>Accessories :</b><br/> 1. Pneumatic or motor driven guillotine cutter reusable / disposable.<br/> 2. Bipolar cable, Bipolar forceps, Bipolar eraser, Endo diathermy probe.<br/> 3. Infusion cannula 2.5mm, 4.0mm, 6.0mm<br/> 4. Extrusion hand piece reusable 23,25G<br/> Posterior vitrectomy cutters/ packs 23, 25G (Quantity 05)<br/> 6. Tubing set for fluid-gas exchange (Quantity 05)<br/> 7. Imported sine wave UPS backup internal / external 15 minutes or better<br/> <b>Country of Origin:</b> UK, USA, Europe, Japan or equivalent.<br/> <b>Should be:</b> ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW<br/> (Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.<br/> <b>Warranty:</b> Warranty period shall be of three years starting</p> | 01 | 0 | 01 | 02 | 50000 |

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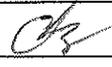
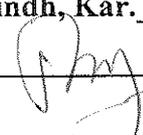
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|     | from date of satisfactory installation of equipment to the consignee end.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |   |    |    |        |
| 52. | <b>Pneumatic Tourniquet</b><br><b>Specification:</b><br>Microprocessor based<br>Power connection 100-240 VAC 50/60 Hz Supply of compressed air integrated compressor Cuff pressure Arm and leg, 30 - 600 mmHg Accuracy $\pm$ 3 mmHg<br>Original imported trolley with two lockable castor<br>All sizes (XL, L, M, S, and XS) of Multi-use cuff, hose pipe convenient basket for storing cuffs and accessories (hoses, cable)<br>Country of Origin: UK, USA, Europe, Japan or equivalent.<br>Should be: ISO-13485 (Mandatory) & CE, JIS, FDA, MHLW<br>(Other than UK, USA, Europe & Japan) will be accepted if equivalent have any Two Certificate.<br>Warranty: Warranty period shall be of three years starting from date of satisfactory installation of equipment. | 01 | 0 | 01 | 02 | 90000  |
| 53. | <b>Portable Spot Light</b><br><b>Specification:</b><br>LED type, life at least 50000 hours. Hermetically dust proof lamp head. Minimum light output 30,000 lux or better Color temperature 4400 Kelvin or better Field of illumination: up to 10 cm or better Working distance 30 cm to 50 cm Mobile / Fixed Mobile trolley<br>Power requirements 220 V; 50 Hz Must have battery backup.<br>Country of Origin: UK, USA, Europe, Japan or equivalent.<br>Should be: ISO-13485 (Mandatory) & CE, JIS, FDA, MHLW<br>(Other than UK, USA, Europe & Japan) will be accepted if equivalent have any Two Certificate.<br>Warranty: Warranty period shall be of three years starting from date of installation of equipment to the consignee end.                             | 03 | 0 | 0  | 03 | 90000  |
| 54. | <b>Baby Running Trolley with Warmer</b><br><b>Specification:</b><br>8 inch or more LCD touch screen with knob Centralized display of all neonatal waveform<br>Ambient screen sensor automatically adjust screen brightness Night and day model switches<br>Low lightness far infrared ceramic heating lamp Ambient noise and light level display<br>Hand free alarms silence<br>Mattress must be of Environmental silicone gel, with great biocompatibility soft and comfortable, great Thermos performance.<br>Anti-bacterium, easy to clean and disinfect as well as reduce bed sore<br>and resuscitation Integrated Suction function<br><br><b>RESUSCITATION UNIT</b><br>Manometer pressure indication 2-8Kpa Suction pressure                                     | 02 | 0 | 0  | 02 | 121000 |

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|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |    |    |    |        |
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|     | <p>control range 0 – 26Kpa<br/>Resuscitation flow unit Pmax Setting and default setting</p> <p><b>STANDARD ACCESSORIES</b></p> <p>Skin temperature probe IV pole Monitor stand Integrated built in light Monitor stand Integrated built in light Replaceable bacterial filter Mattress</p> <p>Country of Origin: UK, USA, Europe, Japan or equivalent..</p> <p>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW</p> <p>(Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.</p> <p><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |    |    |    |        |
| 55. | <p><b>A/B scan Specification</b></p> <ol style="list-style-type: none"> <li>1. A&amp;B modes with control vector and biometric ruler with computer to calculate IOL power.</li> <li>2. Digital Memory and image freezing.</li> <li>3. Ultrasonic bio-meter for manual or automatic freezing system via foot pedal when valid measurement is detected.</li> <li>4. Measurement of axial length, ACD and lens thickness, features measurement of 5 or more reading with adjustable gates/gain.</li> <li>5. Standard deviation of multiple scans, fully digitized display of real time echograms.</li> <li>6. Solid probe with fixation light.</li> <li>7. Audio feedback for probe alignment.</li> <li>9. LCD /LED/TFT monitor</li> <li>10. Near field and dynamic setting.</li> <li>11. Depth of examination 35mm or better.</li> <li>12. In B mode scanning angle 40 degree or more.</li> <li>13. 10 MHz or better B Probe</li> <li>14. 10 MHz or better biometry probe</li> </ol> <p>Accessories<br/>With all standard accessories including with compatible laser printer and one extra toner.<br/>Power Requirement:<br/>Line voltages: 100-240VAC<br/>Line Frequency: 50/60 Hz</p> <p><b>OR Equivalent</b></p> <p>Country of Origin: UK, USA, Europe, Japan.<br/>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA (Any One). <b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p> | 0 | 01 | 01 | 02 | 145000 |

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|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |    |    |       |
| 56. | <p><b>Keratometre</b><br/> <b>Specification:</b><br/> Accurate refraction measurement<br/> Auto tracking and auto shot<br/> Digital color LCD screen<br/> Built-in printer with easy loading and auto cutting<br/> Spherical: <math>\pm 20D</math> or better.<br/> Cylinder: <math>\pm 10 D</math> or better.<br/> Axis: 1 to 180 Degree.<br/> Pupil distance: Max 85mm (increment 1mm).<br/> Pupil diameter: <math>\phi 2</math> mm<br/> Curvature radius: 5.00mm to 10.00mm or better<br/> Refractive Power: 35 to 66D or better<br/> Axis: 1 to 180 Degree.<br/> Motorized chinrest movement<br/> Electric power: 220-240V AC, 50Hz.<br/> Accessories:<br/> Standard accessories, with 6 paper roll, dust cover and cleaning kit.<br/> On locally made motorized table<br/> <b>Country of Origin: UK, USA, Europe, Japan or equivalent.</b><br/> <b>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW</b><br/> (Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.<br/><br/> <b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p> | 0 | 0 | 01 | 01 | 36500 |

*Handwritten signature*

**Prepared/Reviewed by following members of Technical Committee (Machinery Equipment / Furniture etc):**

- a. S. Zamir Hussain Shah, Bio Medical Engineer, Dr. Ruth K.M. Pfau Civil Hosp. Kar. *[Signature]*
- b. Majid Ali, Senior Equipment Engineer, NICH, KARACHI. *[Signature]*
- c. Qazi Muhammad Amir, Bio-medical Technician, Elector-medical Workshop. *[Signature]*
- d. Sunny Mohiuddin, Dy. Director (Procurement), Directorate of Pharmacy, Sindh, Kar. *[Signature]*
- e. Rajeev Brahman, Pharmacist, Dr. Ruth K.M Pfau Civil Hospital Karachi. *[Signature]*

**SECTION B**  
**Supply of Hospital & General Furniture Items**

**Technical Evaluation Criteria for Section "B" Maximum Allocable Marks Score 70% to Qualify**

**Check List (Mandatory Documents)**

If any bidder failed to submit any of the following documents, the same shall be disqualified.

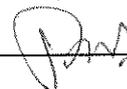
| Sr. No. | DOCUMENT DESCRIPTION                                                                                   | YES / NO | PAGE # |
|---------|--------------------------------------------------------------------------------------------------------|----------|--------|
| 1       | Tender Purchase Receipt (Original)/Pay order                                                           |          |        |
| 2       | Bid Security (2%) Copy with value hidden in Technical Proposal; Original in Financial)                 |          |        |
| 3       | Technical Proposal on Bidder's Letterhead                                                              |          |        |
| 4       | Compliance sheet on letter head                                                                        |          |        |
| 5       | Undertaking (as per sample form)                                                                       |          |        |
| 6       | Income Tax & GST Registration Certificate                                                              |          |        |
| 7       | Valid Professional Tax Certificate                                                                     |          |        |
| 8       | FBR Income Tax Returns (last 3 years)                                                                  |          |        |
| 9       | Audited Financial Statement (last 3year)                                                               |          |        |
| 10      | Factory / Workshop Details (duly equipped)                                                             |          |        |
| 11      | Valid Authorization Letter from Manufacturer in reference to this particular tender.                   |          |        |
| 12      | Catalogue / Brochures / Drawing                                                                        |          |        |
| 13      | ISO 9001 of Bidders / Manufacturer (where applicable) (website link must be provided for verification) |          |        |

**Note:**

- All pages of the bid, except for un-amended printed literature, shall be initialed by the Bidder.
- Documents must be submitted in binding, with filled Table of Content, Page Numbering and tagging wherever required.



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- d. Sunny Mohiuddin, Dy. Director (Procurement), Directorate of Pharmacy, Sindh, Kar. 
- e. Rajeevv Brahman, Pharmacist, Dr. Ruth K.M Pfau Civil Hospital Karachi. 

## EVALUATION / QUALIFICATION

1.1 The procuring agency reserves the right to evaluate and compare the bids on itemized basis OR on the basis of a group of similar nature goods OR goods compatible with each other.

The following merit point system for weighing evaluation factors/criteria will be applied for technical proposals.

1.2 Bidders achieving minimum 70 % marks will be considered only for further process.

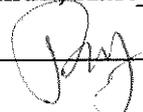
Documentary evidence must be attached in support of each parameter.

1.3 Any Bid not meeting the mandatory requirements of evaluation criteria will be disqualified / rejected straight away and will not be considered for further evaluation.

| S#                 | PARAMETERS / SUB-PARAMETERS                                                                                                | Total Marks       |
|--------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------|
| <b>1</b>           | <b>Conformity to the Purchaser's Specifications / Sample Examination</b>                                                   | <b>50</b>         |
| 1.1                | Fully compliance with the required specifications / Sample                                                                 | 50                |
| 1.2                | Compliant with minor deviation (up to 10% subject to main function is not affected)                                        | 40                |
| 1.3                | Non-compliance from the statement of required specifications                                                               | <b>Disqualify</b> |
| <b>2</b>           | <b>Last three Years' Experience of five Public Sector Tertiary Care Hospitals (2 Marks of each)</b>                        | <b>10</b>         |
| <b>3</b>           | <b>Last three Years' Experience of five Private Sector Tertiary Care Hospitals (2 Marks of each)</b>                       | <b>10</b>         |
| <b>4</b>           | <b>Average Annual Turnover during last three (03) financial years Duly verified from FBR Tax Returns</b>                   | <b>10</b>         |
| 4.1                | More than 500 (M)                                                                                                          | 10                |
| 4.2                | More than 300 (M) to 400 (M)                                                                                               | 08                |
| 4.3                | More than 200(M) to 300 (M)                                                                                                | 06                |
| 4.4                | More than 100 (M) to 200 (M)                                                                                               | 04                |
| <b>5</b>           | <b>Manufacturer's Authorization</b>                                                                                        | <b>10</b>         |
| 5.1                | Itself Manufacturer<br>(Attached valid ISO 9001 / 13485)<br>(Attached FBR status showing Manufacturer In NTN verification) | 10                |
| 5.2                | Valid Authorization of Manufacturer of goods<br>(Attached valid authorization from manufacturer).                          | 05                |
| <b>6</b>           | <b>Delivery Schedule at consignees end</b>                                                                                 | <b>10</b>         |
| 6.1                | Within 20 days                                                                                                             | 10                |
| 6.2                | Within 30 days                                                                                                             | 08                |
| 6.3                | Within 45 days                                                                                                             | 06                |
| <b>TOTAL MARKS</b> |                                                                                                                            | <b>100</b>        |



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- e. Rajeev Brahman, Pharmacist, Dr. Ruth K.M Pfau Civil Hospital Karachi. 

## **BIDDER EVALUATION CRITERIA**

Bid found to be responsive with maximum accumulative points (Technical + Financial) shall be accepted as the most advantageous bid as per SPPR, 2010 (Amended 2021).

Bids will be evaluated on the basis of following evaluation criteria.

### **A. TECHNICAL EVALUATION**

- i) Technical evaluation has 70% weightage
- ii) Bids will be evaluated on a Bidder's capacity and capability to undertake supplies and on quoted item quality, performance and conformity to the required specifications.
- iii) Technical capacity of a bidder includes availability of workshop, tools, technical staff, number of installation and experience in the province of Sindh for prompt services to Past performance of the bidder at **Office of the DIRECTOR GENERAL HEALTH SERVICES SINDH HYDERABAD** will also be reviewed.
- iv) A bidder must achieve a minimum of 70 points out of total 100 points in technical evaluation, to be considered for financial evaluation.

### **B. FINANCIAL EVALUATION**

- i) Financial evaluation has 30% weightage.
- ii) Only financial proposal of bidders with responsive technical proposal will be opened. Financial proposal of bidders who do not meet required mandatory documents and minimum 70 points out of total 100 points in technical evaluation will be returned unopened.
- iii) Bidder who has offered the lowest value for the item will get 30 points.
- iv) All remaining bidders after the lowest shall get points on their financial proposal, calculated as per the following formula.

$$\frac{\text{Value of lowest bidder} \times 30}{\text{Value of higher bidder [2nd, 3rd, 4th, etc.]}}$$

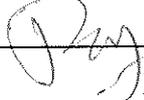
### **C. FINAL BID EVALUATION**

- i) Points obtained by bidders in technical and financial evaluation shall be prorated and finalized as follows.

| Evaluation   | Weightage   |
|--------------|-------------|
| Technical    | 70%         |
| Financial    | 30%         |
| <b>Total</b> | <b>100%</b> |

Bid of a bidder who is found technically responsive with highest accumulated points will be considered as the most advantageous bid.

Prepared/Reviewed by following members of Technical Committee (Machinery Equipment / Furniture etc):

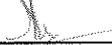
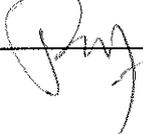
- a. S. Zamir Hussain Shah, Bio Medical Engineer, Dr. Ruth K.M. Pfau Civil Hosp. Kar. 
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## SECTION B

### Supply of Hospital & General Furniture

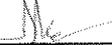
| S. NO. | DESCRIPTION ITEMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | TMK | KOTRI | TAY | TOTAL | FIXED BID SECURITY |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|-----|-------|--------------------|
| 1.     | <b>Donor Couches</b><br>Specifications:<br>Dimensions: 72" x 24" x 28"<br>Body frame made up of 16SWG 1¼" MS round pipe<br>Welded base for stable operation<br>Backrest adjustable, with range up 40° to 50° and down 10° to 15° with friction clutch lever<br>Lying area 3" thick in two parts upholstered with foam & Rexene<br>PVC boots on feet for grip and noiseless operation<br>Electrostatic epoxy powder coated paint finish<br>OR Equivalent<br>Country of Origin: IMPORTED/ EXPORT QUALITY.<br>Should be: ISO-13485, CE/ ISO-14001 (Anyone).<br>Warranty: Warranty period shall be of three years starting from date of installation of equipment to the consignee end.                                                                 | 01  | 0     | 0   | 01    | 2000               |
| 2.     | <b>Towel Stand</b><br>Specification: <ul style="list-style-type: none"> <li>• Made from imported stainless steel, Rust resistant and Satin finish</li> </ul> Or Equivalent<br>Country of Origin: Imported/ Export Quality. , CE Marked & FDA Approved.<br>Warranty: Warranty period shall be of three years starting from date of installation of equipment to the consignee end.                                                                                                                                                                                                                                                                                                                                                                   | 06  | 01    | 04  | 11    | 1100               |
| 3.     | <b>Crush Trolley</b><br><u>Specifications:</u> <ul style="list-style-type: none"> <li>- Cart dimensions: 46 x 65 x 99 cm</li> <li>- Overall space requiring dimension: 58 x 88 cm</li> <li>- Trolley mobile on four rubber 5" swivel castors (two lockable)</li> <li>- Wrap around rubber bumper provides protection of trolley</li> <li>- Fitted with four drawer having central locking plate exteriorly</li> <li>- Drawer's depths: 1st 7cm, 2nd 7cm, 3rd 17cm &amp; 4th 27cm</li> <li>- Recessed stainless steel tray top for instrument safety</li> <li>- Single oxygen cylinder holder positioned at one side</li> <li>- Fitted with utility basket and easy push handle</li> <li>- Trolley body epoxy powder coated in red colour</li> </ul> | 02  | 02    | 14  | 18    | 6000               |

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|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |   |   |    |       |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|----|-------|
|    | <p><b>Accessories:</b></p> <p>a) Side Shelf Collapsible for writing notes<br/> b) Cardiac Board (40 x 55cm)<br/> c) Drawers Divider Set (for top three only)<br/> d) IV Pole</p> <p><b>Country of Origin:</b> IMPORTED/<br/> EXPORT QUALITY. Should be:<br/> ISO-13485, CE/ ISO-14001<br/> (Anyone).</p> <p><b>Warranty:</b> Warranty period shall be of three years<br/> starting from date of<br/> installation of equipment to the consignee end.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |   |   |    |       |
| 4. | <p><b>Counter</b></p> <p><b>Specification:</b></p> <ul style="list-style-type: none"> <li>• Dimension: 72x30x42 inch (LxDxH)</li> <li>• Complete in Lamination finish with PVC edges.</li> <li>• Working top with soft board in front.</li> <li>• Wooden leg structure &amp; front.</li> <li>• Open shelves under the drawers.</li> <li>• Marble on the top of the counter.</li> </ul> <p><b>Country of Origin:</b> IMPORTED/ EXPORT<br/> QUALITY. Should be: ISO-13485, CE/<br/> ISO-14001 (Anyone).</p> <p><b>Warranty:</b> Warranty period shall be of three years<br/> starting from<br/> date of installation of equipment to the consignee<br/> end.</p>                                                                                                                                                                                                                                                          | 01 | 0 | 0 | 01 | 3000  |
| 5. | <p><b>Medicine Trolley</b></p> <p><b>Specification:</b></p> <p>Movable medicine table, with two flat non-removable shelves/trays Heavy carriage mounted on 4 swivel castors, of which two with brake Transfer bars connect all lower distal portions of the 4 base, providing maximal structural strength. Shelves have smooth finishing allowing for easy cleaning. Top shelf of 1mm 304 SS sheet provided with guard all around and two drawers of 1mm 304 SS sheet under top shelf. Lower shelf 1mm 304 SS sheet is fully flat surface and fixed to the table frame right above the swivelcastors Trolley frame made of 18SWG 304 SS round pipe Dimension: 18 x 27 x 31 (inches) Castors: 2" (imported) Country of Origin: IMPORTED/ EXPORT QUALITY. Should be: ISO-13485, CE/ ISO-14001 (Anyone).<br/> Warranty: Warranty period shall be of three years starting from date of installation of equipment to the</p> | 13 | 0 | 0 | 13 | 15000 |

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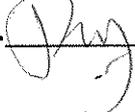
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |   |    |    |       |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|----|----|-------|
|    | consignee end.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |   |    |    |       |
| 6. | <b>Office Table Specifications:</b><br>- wood frame with lamination top in heavy duty finish<br>- Three drawers on one side with handles, locks and sliding on imported rails in full extension<br>- High quality matt finish wood lacquer polish<br>- Dimensions: L 42" x W 24" x H 26"<br>- OR Equivalent<br><b>Country of Origin:</b> IMPORTED/ EXPORT QUALITY. Should be: ISO-13485, CE/ ISO-14001 (Anyone).<br><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end. | 17 | 0 | 07 | 24 | 20000 |
| 7. | <b>Visitor Chair Specification:</b><br>- Seat and back Cousin foam warranty 10 years wooden frame she sham wood best quality polish finished artificial leather.<br><b>Country of Origin:</b> IMPORTED/ EXPORT QUALITY. Should be: ISO-13485, CE/ ISO-14001 (Anyone).<br><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.                                                                                                                                            | 16 | 0 | 0  | 16 | 5000  |
| 8. | <b>Steel Almirah Specification:</b><br>Size: 3"x6"x18" made of MS Sheet 20 gauge solid 4 shelves<br>Inter lock system with fine quality brass handle<br>Spray paint<br>• <b>Country of Origin:</b> IMPORTED/ EXPORT QUALITY. Should be: ISO-13485, CE/ ISO-14001 (Anyone).<br><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.                                                                                                                                       | 09 | 0 | 0  | 09 | 10000 |
| 9. | <b>Large Table Specifications:</b><br>- wood frame with lamination top in heavy duty finish<br>- Three drawers on one side with handles, locks and sliding on imported rails in full                                                                                                                                                                                                                                                                                                                                                               | 01 | 0 | 0  | 01 | 6000  |

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- Qazi Muhammad Amir, Bio-medical Technician, Elector-medical Workshop. Qazi
- Sunny Mohiuddin, Dy. Director (Procurement), Directorate of Pharmacy, Sindh, Kar. Sunny
- Rajeev Brahman, Pharmacist, Dr. Ruth K.M Pfau Civil Hospital Karachi. Rajeev

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |   |    |    |       |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|----|----|-------|
|     | <p>extension</p> <ul style="list-style-type: none"> <li>- High quality matt finish wood lacquer polish</li> <li>- Dimensions: L 42" x W 24" x H 26"</li> <li>- OR Equivalent</li> </ul> <p><b>Country of Origin:</b> IMPORTED/ EXPORT QUALITY. Should be: ISO-13485, CE/ ISO-14001 (Anyone).</p> <p><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p>                                                                                            |    |   |    |    |       |
| 10. | <p><b>File cabinet</b></p> <p><b>Specification:</b></p> <ul style="list-style-type: none"> <li>• Four drawers with lock, constructed from 1mm steel sheet. Central drawer locking system, High quality PaintFinish.</li> <li>• Size: 52x18x24.</li> <li>- OR Equivalent</li> </ul> <p><b>Country of Origin:</b> IMPORTED/ EXPORT QUALITY. Should be: ISO-13485, CE/ ISO-14001 (Anyone).</p> <p><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p> | 16 | 0 | 0  | 16 | 15000 |
| 11. | <p><b>Office chair</b></p> <p><b>Specifications:</b></p> <p>Round Shape made of sheesham wood Polish in good material.<br/>Seat back cushioned with cloth and foam( Master Foam).</p> <ul style="list-style-type: none"> <li>- OR Equivalent</li> </ul> <p><b>Country of Origin:</b> EXPORT QUALITY. Should be: ISO-13485, CE/ ISO-14001 (Anyone).</p> <p><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p>                                      | 12 | 0 | 14 | 26 | 2500  |
| 12. | <p><b>Revolving chair</b></p> <p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>- Medium back with arm rests revolving chair</li> <li>- Moulded P U Foam</li> <li>- Seat: 20" x 18"</li> <li>- Fabric upholstered seat &amp; back cushions</li> <li>- High quality gas spring lift for height adjustment</li> <li>- OR Equivalent</li> </ul> <p><b>Country of Origin:</b> IMPORTED/ EXPORT</p>                                                                                                                 | 11 | 0 | 07 | 18 | 9000  |

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|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |   |    |    |       |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|----|----|-------|
|     | <p>QUALITY.Should be: ISO-13485, CE/ ISO-14001 (Anyone).</p> <p><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |   |    |    |       |
| 13. | <p><b>Bed side locker</b></p> <p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>- Dimension: 16" x 19" x 32"</li> <li>- Cabinet made of 1mm thick Galvanized steel sheet</li> <li>- Top of PVC material with three sides raised edges</li> <li>- Drawer 3" depth having sheet inbuilt handle with fullextension ball bearing railing</li> <li>- Cabinet door having sheet inbuilt handle and magnetic stripwith firm grip</li> <li>- Recessed shelf, removable</li> <li>- Mobile on four imported 2" twin castors</li> <li>- Electrostatic epoxy powder coated finish</li> <li>- OR Equivalent</li> </ul> <p><b>Country of Origin:</b> IMPORTED/ EXPORT QUALITY.Should be: ISO-13485, CE/ ISO-14001 (Anyone).</p> <p><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p> | 0  | 0 | 34 | 34 | 25000 |
| 14. | <p><b>Dirty Linen Trolley</b></p> <p><b>Specification:</b></p> <ul style="list-style-type: none"> <li>• Should be made up high quality SS Steel. <b>Country of Origin:</b> IMPORTED/ EXPORT QUALITY.Should be: ISO-13485, CE/ ISO-14001 (Anyone).</li> </ul> <p><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 06 | 0 | 0  | 06 | 3500  |
| 15. | <p><b>Ward screen</b></p> <p><b>Specification:</b></p> <p>Screen mounted on swivel castors; positioned in broad stance for good stability. Material: Is be resistant to corrosion (ref. to tropical environment) and decontamination (referring to chlorine solution) Frame: Epoxy powdered coated steel Curtain: Parachute and washable Dimensions: Bed screen: 3 panel of approx. 96 x 61 (inches) Swivel castors: Approximately diameter 3"(imported) Plastic bushes</p>                                                                                                                                                                                                                                                                                                                                                                                                | 03 | 0 | 0  | 03 | 2000  |

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- b. Majid Ali, Senior Equipment Engineer, NICH, KARACHI. *Majid*
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- e. Rajeev Brahman, Pharmacist, Dr. Ruth K.M Pfau Civil Hospital Karachi. *Rajeev*

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |   |     |     |       |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|-----|-----|-------|
|     | in all sections for easy movement without friction<br>Country of Origin: IMPORTED/ EXPORT<br>QUALITY.<br>Should be: ISO-13485, CE/ ISO-14001(Anyone).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |   |     |     |       |
| 16. | <b>Examination Couch</b><br><b>Specifications:</b><br>- Dimensions: 72" x 24" x 28"<br>- Body frame made up of 16SWG 1¼" MS round pipe<br>- Welded base for stable operation<br>- Backrest adjustable, with range up 40° to 50° and down 10° to 15° with friction clutch lever<br>- Lying area 3" thick in two parts upholstered with foam & Rexene<br>- PVC boots on feet for grip and noiseless operation<br>- Electrostatic epoxy powder coated paint finish<br>- OR Equivalent<br><b>Country of Origin:</b> IMPORTED/ EXPORT QUALITY. Should be: ISO-13485, CE/ ISO-14001 (Anyone).<br><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end. | 02 | 0 | 0   | 02  | 1500  |
| 17. | <b>Ward screen</b><br><b>Specification:</b><br>Screen mounted on swivel castors; positioned in broad stance for good stability. Material: Is be resistant to corrosion (ref. to tropical environment) and decontamination (referring to chlorine solution)<br>Frame: Epoxy powdered coated steel<br>Curtain: Parachute and washable<br>Dimensions: Bed screen: 3 panel of approx. 96 x 61 (inches)<br>Swivel castors: Approximately diameter 3" (imported)<br>Plastic bushes in all sections for easy movement without friction<br>Country of Origin: IMPORTED/ EXPORT QUALITY.<br>Should be: ISO-13485, CE/ ISO-14001(Anyone).                                                                                           | 05 | 0 | 0   | 05  | 3000  |
| 18. | <b>Over Bed Table</b><br><b>Specifications:</b><br>- Frame dimension 27" x 17"<br>- Stable frame made of 16SWG 1" x 2" MS tubular pipe<br>- Top of laminated melamine board 32" x 15" with sides dressed with PVC lining<br>- Telescopic height adjustment from 31" to 45" with tightening of screw knob<br>- Adjustable column of tubular stainless-steel pipe                                                                                                                                                                                                                                                                                                                                                           | 19 | 0 | 124 | 143 | 85000 |

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|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |   |    |    |      |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|----|----|------|
|     | <ul style="list-style-type: none"> <li>- Mobile on four imported 2" twin castors</li> <li>- Electrostatic epoxy powder coated finish</li> <li>- OR Equivalent</li> </ul> <p><b>Country of Origin:</b> IMPORTED/ EXPORT QUALITY. Should be: ISO-13485, CE/ ISO-14001 (Anyone).</p> <p><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |   |    |    |      |
| 19. | <p><b>Bed Side Bench</b></p> <p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>- Dimension: 16" x 19" x 32"</li> <li>- Cabinet made of 1mm thick Galvanized steel sheet</li> <li>- Top of PVC material with three sides raised edges</li> <li>- Drawer 3" depth having sheet inbuilt handle with fullextension ball bearing railing</li> <li>- Cabinet door having sheet inbuilt handle and magnetic strip with firm grip</li> <li>- Recessed shelf, removable</li> <li>- Mobile on four imported 2" twin castors</li> <li>- Electrostatic epoxy powder coated finish</li> <li>- OR Equivalent</li> </ul> <p><b>Country of Origin:</b> IMPORTED/ EXPORT QUALITY. Should be: ISO-13485, CE/ ISO-14001 (Anyone).</p> <p><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p> | 19 | 0 | 06 | 25 | 6000 |
| 20. | <p><b>Stretcher</b></p> <p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>- Complete frame made of M.S Pipe,</li> <li>- Removable stretcher top having Stainless Steel curved top,</li> <li>- Provided with oxygen cylinder holder,</li> <li>- Mobile on 7" heavy duty castor wheels.</li> </ul> <p><b>Country of Origin:</b> IMPORTED/ EXPORT QUALITY. Should be: ISO-13485, CE/ ISO-14001 (Anyone).</p> <p><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p>                                                                                                                                                                                                                                                                                                          | 03 | 0 | 0  | 03 | 2000 |

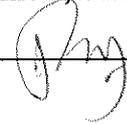
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## SECTION C

**Supply & Installation of Medical Instruments & Devices, IT Equipment and Miscellaneous Items**  
**Technical Evaluation Criteria for Section "C" Maximum Allocable Marks Score 70% to Qualify**

### Document Check List (Mandatory Documents)

If any bidder failed to submit any of the following documents, the same shall be disqualified.

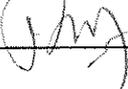
| Sr. No. | DOCUMENT DESCRIPTION                                                                                   | YES / NO | PAGE # |
|---------|--------------------------------------------------------------------------------------------------------|----------|--------|
| 1       | Tender Purchase Receipt (Original)/Pay order                                                           |          |        |
| 2       | Bid Security (2%) Copy with value hidden in Technical Proposal; Original in Financial)                 |          |        |
| 3       | Technical Proposal on Bidder's Letterhead                                                              |          |        |
| 4       | Compliance sheet on letter head                                                                        |          |        |
| 5       | Undertaking (as per sample form)                                                                       |          |        |
| 6       | Income Tax & GST Registration Certificate                                                              |          |        |
| 7       | Valid Professional Tax Certificate                                                                     |          |        |
| 8       | FBR Income Tax Returns (last 3 years)                                                                  |          |        |
| 9       | Audited Financial Statement (last 3year)                                                               |          |        |
| 10      | Factory / Workshop Details (duly equipped)                                                             |          |        |
| 11      | Valid Authorization Letter from Manufacturer in reference to this particular tender.                   |          |        |
| 12      | Catalogue / Brochures / Drawing                                                                        |          |        |
| 13      | ISO 9001 of Bidders / Manufacturer (where applicable) (website link must be provided for verification) |          |        |

**Note:**

- All pages of the bid, except for un-amended printed literature, shall be initialed by the Bidder.
- Documents must be submitted in binding, with filled Table of Content, Page Numbering and tagging wherever required.



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| S#                                       | PARAMETERS / SUB-PARAMETERS                                                                                                                                             | Total Marks |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 4                                        | Average Annual Turnover during last three (03) financial years<br>(Audited Statements of Accounts and Income Tax Return Forms must be attached as supporting documents) | 10          |
| 4.1                                      | Turn over below PKR 100 million                                                                                                                                         | 00          |
| 4.2                                      | Turn over above PKR 100 million                                                                                                                                         | 04          |
| 4.3                                      | Turn over above PKR 200 million                                                                                                                                         | 06          |
| 4.4                                      | Turn over above PKR 300 million                                                                                                                                         | 08          |
| 4.5                                      | Turn over above PKR 500 million                                                                                                                                         | 10          |
| 5                                        | Replacement Warranty                                                                                                                                                    | 05          |
| 5.1                                      | Replacement Warranty for 1 year                                                                                                                                         | 05          |
| <b>TOTAL MARKS BIDDER EVALUATION (B)</b> |                                                                                                                                                                         | <b>45</b>   |
| <b>GRAND TOTAL (A + B)</b>               |                                                                                                                                                                         | <b>100</b>  |



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## **BIDDER EVALUATION CRITERIA**

Bid found to be responsive with maximum accumulative points (Technical + Financial) shall be accepted as the **most advantageous bid** as per SPPR, 2010 (Amended 2021).

Bids will be evaluated on the basis of following evaluation criteria.

### **A. TECHNICAL EVALUATION**

- i) Technical evaluation has 70% weightage
- ii) Bids will be evaluated on a Bidder's capacity and capability to undertake supplies and on quoted item quality, performance and conformity to the required specifications.
- iii) Technical capacity of a bidder includes availability of workshop, tools, technical staff, number of installation and experience in the province of Sindh for prompt services to Karachi Division. Past performance of the bidder at **DIRECTOR GENERAL HEALTH SERVICES SINDH HYDERABAD** will also be reviewed.
- iv) A bidder must achieve a minimum of 70 points out of total 100 points in technical evaluation, to be considered for financial evaluation.

### **B. FINANCIAL EVALUATION**

- i) Financial evaluation has 30% weightage.
- ii) Only financial proposal of bidders with responsive technical proposal will be opened. Financial proposal of bidders who do not meet required mandatory documents and minimum 70 points out of total 100 points in technical evaluation will be returned unopened.
- iii) Bidder who has offered the lowest value for the item will get 30 points.
- iv) All remaining bidders after the lowest shall get points on their financial proposal, calculated as per the following formula.

$$\frac{\text{Value of lowest bidder}}{\text{Value of higher bidder}} \times 30$$

[2nd, 3rd, 4th, etc.]

### **C. FINAL BID EVALUATION**

- i) Points obtained by bidders in technical and financial evaluation shall be prorated and finalized as follows.

| Evaluation   | Weightage   |
|--------------|-------------|
| Technical    | 70%         |
| Financial    | 30%         |
| <b>Total</b> | <b>100%</b> |

- ii) Bid of a bidder who is found technically responsive with highest accumulated points will be considered as the most advantageous bid.

Prepared/Reviewed by following members of Technical Committee (Machinery Equipment / Furniture etc):

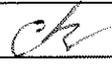
- a. S. Zamir Hussain Shah, Bio Medical Engineer, Dr. Ruth K.M. Pfau Civil Hosp. Kar. 
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## SECTION C

### Supply & Installation of Medical Instruments & Devices, IT Equipment and Miscellaneous Items

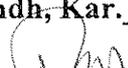
| S. NO. | DESCRIPTION ITEMS                                                                                                                                                                                                                                                                                                                                                                              | TMK | KOTRI | TAY | TOTAL | FIXED BID SECURITY |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|-----|-------|--------------------|
| 1.     | <b>Baby cot mattress with cover</b><br><b>Specifications:</b><br>Mattress: high-density with Rexene cover: flexible highly tear resistant, anti-static, disinfectant, liquid proof and washable mattress, detachable for easy cleaning Mattress cover removable via side zipper Basinet sets and removes<br>Origin: IMPORTED/ EXPORT QUALITY.<br>Should be: ISO-13485, CE/ ISO-14001 (Anyone). | 05  | 0     | 0   | 05    | 900                |
| 2.     | <b>Caseates 8*10</b><br><b>Specification:</b> <ul style="list-style-type: none"> <li>• X-Ray film cassettes 8x10" inch size.</li> <li>• Country of Origin: Imported/ Export Quality. Should be: ISO Approved/ CE Marked.</li> </ul> Warranty: Warranty period shall be of three years starting from date of installation of equipment to the consignee end.                                    | 02  | 0     | 04  | 06    | 12000              |
| 3.     | <b>Caseates 10*12</b><br><b>Specification:</b> <ul style="list-style-type: none"> <li>• X-Ray film cassettes 10x12" inch size.</li> </ul> Country of Origin: Imported/ Export Quality.<br>Should be: ISO Approved/ CE Marked.<br>Warranty: Warranty period shall be of three years starting from date of installation of equipment to the consignee end.                                       | 02  | 0     | 04  | 06    | 12000              |
| 4.     | <b>Caseates 12*15</b><br><b>Specification:</b> <ul style="list-style-type: none"> <li>• X-Ray film cassettes 12x15" inch size.</li> </ul> Country of Origin: Imported/ Export Quality.<br>Should be: ISO Approved/ CE Marked.<br>Warranty: Warranty period shall be of three years starting from date of installation of equipment to the consignee end.                                       | 02  | 0     | 04  | 06    | 12000              |
| 5.     | <b>Caseates 14*17</b><br><b>Specification:</b> <ul style="list-style-type: none"> <li>• X-Ray film cassettes 14x17" inch size.</li> </ul> Country of Origin: Imported/ Export Quality.<br>Should be: ISO Approved/ CE Marked.<br>Warranty: Warranty period shall be of three years starting from date of installation of equipment to the consignee end.                                       | 02  | 0     | 04  | 06    | 12000              |

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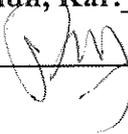
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |    |    |    |        |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|--------|
| 6. | <b>X-Ray illuminator ( 2 In 1)</b><br><b>Specification:</b> <ul style="list-style-type: none"> <li>• Latest Technology</li> <li>• Good quality</li> <li>• Standard Size (Double)</li> <li>• State of the art manufacturing</li> <li>• Brochure must he provided</li> <li>• 2 in 1 Horizontally or more</li> <li>• Must be Digital latest LED lights.</li> <li>• To View 4 nos. 14x17" film.</li> </ul> <b>OR Equivalent</b><br>Country of Origin: IMPORTED.<br>Should Be: ISO Approved Or CE Marked.<br>Warranty: Should be Standard 03 Years Warranty                                                                                                                                                                                                                                                                                                                                                                                                                                   | 29 | 0  | 38 | 67 | 85000  |
| 7. | <b>Dressing Set</b><br><b>Specification:</b> <ul style="list-style-type: none"> <li>• Forceps, dissecting, Straight, 1/2 teeth, 130 mm x 2</li> <li>• Forceps, sinus, 180mm x 1</li> <li>• Forceps, Dissecting, Straight, Plain, 115 mm x 1</li> <li>• Forceps, Sponge holding, 200mm x 1</li> <li>• Scissors, Mayo, Straight, 150mm x1</li> <li>• Scissors, dressing, Straight, 165mm x 1</li> <li>• Scissors, ligature, spencer, 130mm x 1</li> <li>• Bowls, lotion, s/s, 5 liter x 1</li> <li>• Bowl lotion, s/s, 0.2 liter x 2</li> <li>• Kidney Dish, 24cm x 2</li> <li>• Instrument container, s/s with cover, 300x200x50mm x 1</li> <li>• Made from imported stainless steel, Rust resistant and stain finish</li> </ul> <b>Country of Origin:</b> Imported/ Export Quality.<br><b>Should be:</b> ISO-13485 (Mandatory), CE Marked & FDA Approved. <b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end. | 18 | 26 | 12 | 56 | 150000 |
| 8. | <b>Minor Set</b><br><b>Specification:</b><br>Made of stainless Steel<br>(Item will be evaluated on best offered specification)<br><b>Country of Origin:</b> Imported/ Export Quality.<br>, CE Marked & FDA Approved.<br><b>Warranty:</b> Warranty period shall be of three years starting from date of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 09 | 0  | 07 | 16 | 25000  |
| 9. | <b>P.O.P Cutter</b><br><b>Specification:</b><br>Feature: Reusable<br>Maximum Swing Range: Higher or Equal to 5 Degree<br>No-Load Speed: 12000r/Min or Better.<br>Rise in Temperature: Lower Than 25 Centigrade<br>Weight: 1.5 kg or better.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 01 | 01 | 03 | 05 | 7000   |

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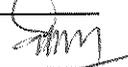
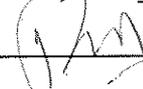
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |    |    |    |       |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|-------|
|     | <p>Power Voltage: 220V/50Hz<br/> Type: Electric Plaster Cutting Saw.<br/> Country of Origin: UK, USA, Europe, Japan or equivalent. or equivalent<br/> Should be: ISO-13485 (Mandatory) &amp; CE MDD, JIS, FDA, MHLW (Any One). Warranty: Warranty period shall be of three years starting from date of satisfactory installation of equipment to the consignee end</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |    |    |    |       |
| 10. | <p><b>Fracture Distractors</b><br/> <b>Specification:</b><br/> Imported/ Export Quality</p> <p><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 01 | 0  | 01 | 02 | 60000 |
| 11. | <p><b>Plaster Cutters</b><br/> <b>Specification:</b></p> <ul style="list-style-type: none"> <li>• Feature: Reusable.</li> <li>• Maximum Swing Range: Higher or Equal to 5 Degree or better.</li> <li>• No-Load Speed: 12500r/Min or better.</li> <li>• Rise in Temperature: Lower Than 25 Centigrade or better.</li> <li>• Weight: one kg or better.</li> <li>• Power Voltage: 220V/50Hz.</li> <li>• Type: Electric Plaster Cutting Saw.</li> </ul> <p><b>Imported/ Export Quality</b><br/> Should Be: ISO Approved Or CE Marked.<br/> Warranty: Should be Standard 03 Years<br/> Warranty</p>                                                                                                                                                                                                                                                                                                | 02 | 0  | 0  | 02 | 15000 |
| 12. | <p><b>Direct Ophthalmoscope</b><br/> <b>Specification:</b><br/> Halogen/LED light for true tissue color and consistent, long-lasting illumination<br/> Apertures: micro, small, large, fixation target, slit, red-free filter<br/> 28 focusing lenses with a range of -20 to +40 or better diopters</p> <p><b>Accessories:</b></p> <ol style="list-style-type: none"> <li>1. Rechargeable handle with charger &amp; batteries.</li> <li>2. 3 spare bulbs (in case of Halogen).</li> <li>3. Carrying case</li> </ol> <p>Country of Origin: UK, USA, Europe, Japan or equivalent. Or Equivalent.<br/> Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW<br/> (Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.<br/> Warranty: Warranty period shall be of three years starting from date of satisfactory installation of equipment.</p> | 01 | 01 | 01 | 03 | 45000 |
| 13. | <p><b>Snellen Chart</b><br/> <b>Specification:</b><br/> Local / Imported / Export quality / Equivalent</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 01 | 01 | 01 | 03 | 3000  |

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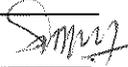
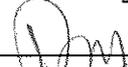
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |    |    |    |       |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|-------|
|     | Warranty: Should be Standard 03 Years<br>Warranty                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |    |    |    |       |
| 14. | <b>Phoropter</b><br><b>Specification:</b><br>1. Spherical power: -27.00D to +27.00D (0.12D, 0.25D, 0.50D, 1.00D)<br>2. Cylindrical power: 0D to ±6.00D (0.25D, 1.00D)<br>3. Axis: 0 degree to 180 degree (1 degree, 5 degree)<br>4. Interpupillary Distance: 48.0mm to 80.0mm (0.5mm to 1mm)<br>5. Vertex Distance: 12, 13, 16mm<br>6. Cross Cylinder: Auto cross cylinder (±0.25D)<br>7. Auxiliary Lens: P.D, occluder, formianious board, and polarization filters, RedMaddox, R/G filter, Dispersing prism.<br>8. Printer<br>9. Monitor: 10 inch touch screen LCD monitor or better<br>With all standard accessories<br><b>Country of Origin:</b> UK, USA, Europe, Japan or Equivalent.<br><br><b>Warranty:</b> Warranty period shall be of three years starting from date of satisfactory installation of equipment to the consignee end. | 01 | 0  | 01 | 02 | 15000 |
| 15. | <b>Retinoscope</b><br><b>Specification:</b><br>Halogen/LED light for true tissue color and consistent, long-lasting illumination Apertures: micro, small, large, fixation target, slit, red-free filter<br>28 focusing lenses with a range of -20 to +40 or better diopters<br><b>Accessories:</b><br>1. Rechargeable handle with charger & batteries.<br>2. 3 spare bulbs (in case of Halogen).<br>3. Carrying case<br><b>Country of Origin:</b> UK, USA, Europe, Japan or equivalent.. Or Equivalent.<br>Should be: ISO-13485 (Mandatory), CE/JIS/ FDA/MHLW (Any One).<br><b>Warranty:</b> Warranty period shall be of three years starting from date of satisfactory installation of equipment.                                                                                                                                            | 01 | 02 | 01 | 04 | 24000 |
| 16. | <b>Air Puff ( non-touch )</b><br><b>Specification:</b><br>Air Puff tonometer (Non-contact tonometer)<br>Measurement range: 5 to 50 mmHg or more Working distance: 10 mm or better Inner fixation light IOP compensation Auto tracking / Auto shot Digital Color LCD/LED Display Built-in Printer<br><br>Power supply: 220-240VAC, 50/60 Hz<br>Accessories: Printer paper, Power cord, Dust cover, Chinrest paper, fixing pins                                                                                                                                                                                                                                                                                                                                                                                                                 | 01 | 0  | 0  | 01 | 2000  |

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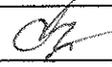
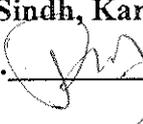
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|     | <p><b>Country of Origin: UK, USA, Europe, Japan or equivalent.</b><br/> <b>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW</b><br/> (Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.<br/> <b>Warranty: Warranty period shall be of three years starting from date of satisfactory installation of equipment</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                             |    |    |    |    |        |
| 17. | <p><b>Oxygen Cylinder with Flow meter</b><br/> <b>Specification:</b></p> <ul style="list-style-type: none"> <li>• Cylinder 240 CFT.</li> <li>• BOC Tested.</li> <li>• Brand New.</li> <li>• With Flow meter. Country of Origin: IMPORTED.</li> </ul> <p>Should Be: ISO Approved Or CE Marked. Warranty: Should be Standard 03 Years Warranty</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 06 | 0  | 80 | 86 | 125000 |
| 18. | <p><b>Telephone Set</b><br/> <b>Specification:</b><br/> Panasonic/Sony/LG or Equivalent.<br/> <b>Warranty: Should be Standard 03 Years Warranty</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 01 | 01 | 18 | 20 | 2000   |
| 19. | <p><b>Sphygmomanometer</b><br/> <b>Specification:</b></p> <ul style="list-style-type: none"> <li>• High quality stethoscope with stainless steel chestpiece, stainless steel double inner spring PVC tubing for unsurpassed acoustic performance.</li> <li>• Foam lined box and 2 extra sets of soft ear tips.</li> <li>• Chest-piece: Ø 45 mm (adult), Ø 35 mm (pediatric).</li> <li>• Fabric cuff with Velcro closure, reliable manometer with clip to be fixed on the cuff.</li> <li>• Scale 0-300 mmHg.</li> <li>• Air release at closed tap max 4 mm Hg/minute.</li> </ul> <p>Manual setting of deflation possible up to 2/3 mm Hg.<br/> <b>OR Equivalent</b><br/> <b>Imported/ Export Quality</b><br/> Should Be: ISO Approved Or CE Marked.<br/> Warranty: Should be Standard 03 Years Warranty</p> | 02 | 0  | 0  | 02 | 600    |
| 20. | <p><b>Stethoscope</b><br/> <b>Specifications:</b></p> <ul style="list-style-type: none"> <li>• Dual Head Stethoscope for Adults</li> <li>• Lightweight aluminum chest piece</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 02 | 0  | 16 | 18 | 1000   |

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|     | <p>construction</p> <ul style="list-style-type: none"> <li>• Non-chill bell and diaphragm rim for patient comfort</li> <li>• Diaphragm diameter 1 3/4", bell diameter 3/4"</li> </ul> <p>Proprietary diaphragm enhances acoustic response by 50% over traditional designs</p> <ul style="list-style-type: none"> <li>• Adjustable aluminum binaurals with PVC ear tips</li> <li>• Flexible 21" PVC tubing</li> </ul> <p>Included with spare pair of black mushroom ear tips</p> <p><b>OR Equivalent</b><br/> <b>Imported/ Export Quality</b><br/> Should Be: ISO Approved Or CE Marked.<br/> Warranty: Should be Standard 03 Years<br/> Warranty</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |   |    |    |       |
| 21. | <p><b>Electric Water Cooler</b></p> <p><b>Specification:</b><br/> Should be of stainless steel sheets.<br/> Drain pot made of hard plastic or GI sheet.<br/> Back panel easily removable for cleaning and servicing. top cover of Plastic(except model 100P)Stainless steel.</p> <p><b>Refrigeration System</b><br/> Fitted high-starting torque,<br/> High-temperature compressors<br/> Condenser and fan should be slightly to ensure efficient working in high temperatures.<br/> Copper cooling coil.<br/> metal bonded to outside of water tank.<br/> The whole system should be hermetically sealed with R-134 as a refrigerant.</p> <p><b>Water System</b><br/> Should be All copper, brass, stainless steel water system. Water tank made of stainless steel.</p> <p><b>Insulation</b><br/> Moisture proof and highly effective polystyrene insulation.</p> <p><b>Thermostat</b><br/> High-quality water temperature control thermostat, adjustable from 9C to 15C(48F to 60F)</p> <p><b>Voltage Rating</b><br/> Twin pilot lights to indicate power supply and compressor operation.</p> <p><b>Water Filtration</b><br/> A 3-stage Water purifying system should available as an option.<br/> Local / Imported/ Export Quality. Should be: ISO Approved CE Marked.</p> | 04 | 0 | 08 | 12 | 20000 |

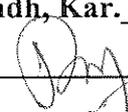
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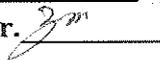
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| 25. | <b>P.O.P Cutter</b><br><b>Specification:</b><br>Feature: Reusable<br>Maximum Swing<br>Range: Higher or Equal<br>to 5 DegreeNo-Load<br>Speed: 12000r/Min or<br>Better.<br>Rise in<br>Temperature:<br>Lower Than 25<br>CentigradeWeight:<br>1.5 kg or better.<br>Power Voltage: 220V/50Hz<br>Type: Electric Plaster Cutting Saw.<br><br>Country of Origin: UK, USA, Europe, Japan or<br>equivalent. or equivalent<br>Should be: ISO-13485 (Mandatory) & CE MDD, JIS,<br>FDA, MHLW (Any One). <b>Warranty:</b> Warranty period<br>shall be of three years starting from date of satisfactory<br>installation of equipment to the consignee end                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 03 | 01 | 0  | 04 | 7000 |
| 26. | <b>Dispenser for Scrub Solution</b><br><b>Specification:</b> <ul style="list-style-type: none"> <li>• Automatic Airborne Sanitizer</li> <li>• Reproducible Log-6 Reduction</li> <li>• Safe and Eco-Friendly Synergy</li> </ul> Our automatic airborne sanitizer raises the standard<br>of Environmental<br>Hygiene thanks to its unique synergy<br>between our boosted Hydrogen<br>Peroxide solution and our sub-micron<br>aerosolization process. <ul style="list-style-type: none"> <li>• Automate HP and its automatic and<br/>             reproducible airborne disinfection<br/>             solves the physical limitation of the<br/>             operators (invisible pathogens andhard<br/>             to reach surfaces) by spreading a dry-<br/>             mist across the room, up to 350 m<sup>3</sup>.</li> <li>• Complete unit with 20 bottle<br/>             Sanitizer automates with dry mist<br/>             andcorrosion free safe boosted<br/>             H2O2 with each machine.</li> </ul> Country of Origin: UK, USA, Europe, Japan or<br>Equivalent.<br><b>Warranty:</b> Warranty period shall be of three years<br>starting from date of satisfactoryinstallation of equipment<br>to the consignee end. | 02 | 0  | 0  | 02 | 2000 |
| 27. | <b>Glucometer</b><br><b>Specification:</b> <ul style="list-style-type: none"> <li>• Construction: M.S. Powder Coated</li> <li>• Input Voltage: AC 1 10 "120V OR AC220-<br/>             240V (Optional)</li> <li>• Frequency: 50-60 Hz</li> <li>• Fuse 50-60 Hz</li> <li>• Power Consumption: 275W ±5% / 1.2A±5%</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 04 | 0  | 06 | 10 | 1500 |

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|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |   |    |    |       |
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|     | <ul style="list-style-type: none"> <li>• Light: White glare-free</li> <li>• Weight: 6 Kilograms (approx.)</li> <li>• Temp. Display: 37" C t 2" C (With Micro Processor indicator)</li> <li>• Dimensions: (Lx W x H) 19.5x7 75x7 inch approx.)</li> <li>• Packing: One unit Transport Worthy</li> <li>• Viewing Area: Length – 11.5 inch Width – 3.5 inch</li> <li>• Operating Ambient Temperature: 27°C ± 4 °C</li> <li>• Support: ABS Plastic / Aluminum knob for position adjustment &amp; cradleholding the equipment.</li> <li>• Relative Humidity: 10-90%, not condensing</li> </ul> <p><b>Or Equivalent:</b><br/>Country of Origin: IMPORTED.<br/>Should Be: ISO Approved Or CE Marked. Warranty:<br/>Should be Standard 03 Years Warranty</p>                                                                                                                                                                                                                    |    |   |    |    |       |
| 28. | <p><b>X-Ray illuminator</b><br/><b>Specification:</b><br/>Body structure made of MS welded Box<br/>Epoxy Powder Coating<br/>Light Intensity: Uniform central point 3000 cd/m. square<br/>Diffusion Panel Screen: A semi translucent white acrylic sheet 3mm thickness<br/>SS made firm grip<br/>SS Strips holds the film from top<br/>Power cable<br/>1.5m long power supply (220V/50Hz)<br/>External Dimensions: 32" x 24" x 4" (L x H x D)<br/>3600 to 4000 kelvin daylight fluorescent LEDs<br/>Homogeneity of the illuminated surface ensure that all zones are adequately illuminated<br/>Power On/Off Switch<br/>An Acryl-glass front panel<br/>Stainless Steel Film support bar (grip)<br/>MS Powder coated metal rear box<br/>Wall mounted aids at rear side<br/>Multiple films viewing capacity<br/>USA/ Europe / Japan<br/>Other countries accepted if CE, FDA, JIS, Approved (any two certifications)<br/>Warranty 03 year from the date of installation</p> | 02 | 0 | 38 | 40 | 60000 |
| 29. | <p><b>Weighing Machine</b><br/><b>Specification:</b><br/> <ul style="list-style-type: none"> <li>• Electronic weighing scale for Adults</li> <li>• High accurate sensor technology</li> <li>• Accuracy: 0.01kg or better.</li> <li>• Measure range: 10Kg ~ 120kg. Country of Origin: IMPORTED.</li> </ul> Should Be: ISO Approved Or CE Marked. Warranty:<br/>Should be Standard 03 Years Warranty</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 04 | 0 | 0  | 04 | 3000  |
| 30. | <p><b>Weighing Scale</b><br/><b>Specification:</b><br/> <ul style="list-style-type: none"> <li>• Electronic weighing scale for Adults</li> </ul> </p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 03 | 0 | 0  | 03 | 400   |

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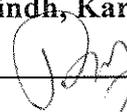
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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|----|------|
|     | <ul style="list-style-type: none"> <li>• High accurate sensor technology</li> <li>• Accuracy: 0.01kg or better.</li> <li>• Measure range: 10Kg ~ 120kg. Country of Origin: IMPORTED.</li> </ul> <p>Should Be: ISO Approved Or CE Marked. Warranty: Should be Standard 03 Years Warranty</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |   |   |    |      |
| 31. | <p><b>Ambo Bag (Adults)</b></p> <p><b>Specification:</b></p> <ul style="list-style-type: none"> <li>• Made of high-quality silicone and special plastic</li> <li>• Autoclavable</li> <li>• Silicon size: 550ml (±10%)</li> <li>• O2 tube and reservoir valve attachable</li> <li>• Ventilation capacity: 600ml per one time</li> <li>• OR Equivalent Configuration</li> <li>• Resuscitator Body (1 ea)</li> <li>• Resuscitator Mask (1 ea)</li> <li>• Oxygen Reservoir (1 ea)</li> </ul> <p><b>OR Equivalent</b></p> <p><b>Country of Origin: UK, USA, Europe, Japan or equivalent..</b></p> <p>. Manufacturers from other countries (other than UK, USA, Europe &amp; Japan) will be accepted if have FDA 510(k).</p> <p><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p>              | 02 | 0 | 0 | 02 | 250  |
| 32. | <p><b>Ambo Bag (Peads)</b></p> <p><b>Specification:</b></p> <ul style="list-style-type: none"> <li>• Made of high-quality silicone and special plastic</li> <li>• Autoclavable</li> <li>• Silicon size: 550ml (±10%)</li> <li>• O2 tube and reservoir valve attachable</li> <li>• Ventilation capacity: 600ml per one time</li> <li>• OR Equivalent Configuration</li> <li>• Resuscitator Body (1 ea)</li> <li>• Resuscitator Mask (1 ea)</li> <li>• Oxygen Reservoir (1 ea)</li> </ul> <p><b>OR Equivalent OR Equivalent</b></p> <p><b>Country of Origin: UK, USA, Europe, Japan or equivalent..</b></p> <p>. Manufacturers from other countries (other than UK, USA, Europe &amp; Japan) will be accepted if have FDA 510(k).</p> <p><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.</p> | 02 | 0 | 0 | 02 | 250  |
| 33. | <p><b>Hysterectomy Set</b></p> <p><b>Specification:</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 01 | 0 | 0 | 01 | 1500 |

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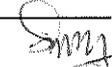
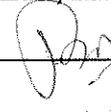
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|     | <ul style="list-style-type: none"> <li>• 1 Claw Fcps 33Cm 10mm</li> <li>• 1 Spoon Fcps 33Cm 10mm</li> <li>• 1 Micro Scis Cvd 33Cm 5mm</li> <li>• 1 Maxi Grasp Fcps 33Cm 5mm</li> <li>• 1 Spatula Electrode Suction</li> <li>• 1 Suct Cntrl W/Single Trump</li> <li>• 1 L-Hook Elect Suct 5mm</li> <li>• 1 Suct Cntrl W/Single Trump</li> </ul> <p>1 High Volume Suct/Irr Syst</p> <ul style="list-style-type: none"> <li>• 1 Needle For Injec/Irrg Ll</li> <li>• 1 Std Grasp Fcps 33Cm 5mm</li> <li>• 1 Wave Grasp Fcps 33Cm 5mm</li> <li>• 1 Dolph Fcp W/Spn 33Cm 5mm</li> <li>• 1 Maryland Diss 33Cm 5mm</li> <li>• 1 Mixer Fcps 33Cm 5mm</li> <li>• 1 Hook Scis 33Cm 5mm</li> <li>• 1 Metz Scis Cvd 33Cm 5mm</li> <li>• 1 Metz Scis Str 33Cm 5mm.</li> </ul> <p>Country of Origin: Imported/ Export Quality.</p> <p>Should be: ISO-13485<br/>(Mandatory), CE Marked &amp;<br/>FDAApproved.</p> <p>Warranty: Warranty period shall be of three years<br/>starting from date of installation of equipment to the<br/>consignee end.</p> |    |   |   |    |      |
| 34. | <p><b>LSCS Set</b><br/>Specification:</p> <ul style="list-style-type: none"> <li>• Tray kidney shape with Lid S/S<br/>200x30mm (02Nos)</li> <li>• Tray instrument with Lid 225x125x50mm<br/>Deep (02Nos)</li> <li>• Forceps Artery Spencer Wells Straight<br/>BJ.S/S125mm (12 Nos)</li> <li>• Forceps Artery Spencer Wells Straight<br/>BJ.S/S200mm (02 Nos)</li> <li>• Forceps Dissecting Plain serrated jaws S/S<br/>150 mm( 02 Nos)</li> <li>• Forceps Dissecting Treves, 1x2 Teeth 150<br/>mm (02Nos)</li> <li>• Forceps Tissue Allis fine 4x5 Teeth BJ.S/S<br/>150 mm(02 Nos)</li> <li>• Forceps Tissues little wood 2x3 Teeth<br/>(bj).s/S 190mm (03 Nos)</li> <li>• Forceps Towel Holding cross Action S/S<br/>100mm(06 Nos)</li> <li>• Forceps Sponge Holding Rampley BJ S/S<br/>240 mm(04 Nos)</li> <li>• Handle size 3 for Scalple blades size 10-15 (01<br/>No)</li> <li>• Handle size 4 for Scalple blades size 20-24 (01<br/>No)</li> </ul>                                                                                 | 06 | 0 | 0 | 06 | 3500 |

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|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |   |   |    |      |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|----|------|
|     | <ul style="list-style-type: none"> <li>• Needle Holder Mayo HegarBj.S/S 180mm z(02Nos)</li> <li>• Scissor Mayo Straight SJ. S/S 200mm. (01 No)</li> <li>• Scissor McIndoe/Metzenbaum CO Flat SJ.S/S190mm (01 No)</li> <li>• Retr. Doyen Ring Handle blade 95 mm Length 280mm (01 No)</li> <li>• Retr.Lange beck H/H 13x44 Blade, 210 mm Long(01 No)</li> <li>• Retr. Morris Double-ended (52x38) &amp; (5264) mm(01 No)</li> <li>• Pin Safety Mayo, forceps holding, 120mm (03 Nos)</li> <li>• Suction Tube Pool's S/S 225mm (01 No)</li> <li>• Forceps Haemostasis Green Armitage 200 mm (06Nos)</li> <li>• Sterilizing and storing case St. St. with filters260x150x50 mm (02 Nos)</li> <li>• Made from imported stainless steel, Rust resistantand satin finish</li> </ul> <p>Country of Origin: Imported/ Export Quality.<br/>Should be: ISO-13485 (Mandatory), CE Marked &amp; FDAApproved.</p> <p>Warranty: Warranty period shall be of three years startingfrom date of installation of equipment to the consignee end.</p> |    |   |   |    |      |
| 35. | <p><b>General Surgery Set</b></p> <p>B.P Handle No 3 &amp; 4<br/>B.P Handle No 7<br/>Dissecting forceps Plain / Tooth 6" 1+1<br/>Dissecting forceps Plain / Tooth 7" 1+1<br/>Dissecting forceps Plain / Tooth 8" 1+1<br/>Adson forceps Plain &amp; Tooth 2+2<br/>McIndoe forceps 6"<br/>Sponge holding forcpe<br/>Metzenbaum Scissor 6" Str &amp; Cvd 1+1<br/>Metzenbaum Scissor 7" Str &amp; Cvd 1+1<br/>Metzenbaum Scissor 8" Str &amp; Cvd 1+1<br/>Mayo Scissor 6 3/4" Str &amp; Cvd 1+1<br/>Crile artery forceps Str 5 1/2"<br/>Crile artery forceps Cvd 5 1/2"<br/>Mosquito artery forceps Str<br/>Mosquito artery forceps Cvd<br/>Artery forceps 8" Str &amp; Cvd 4+4<br/>Artery forceps 9" Cvd fine<br/>Kocher Artery forceps 8" Str &amp; Cvd 4+4<br/>Babcock intestinal forceps 6"<br/>Babcock intestinal forceps 7"<br/>Babcock intestinal forceps 8"<br/>Allis tissue forceps 6"<br/>Allis tissue forceps 7"<br/>Allis tissue forceps 8"</p>                                                                            | 02 | 0 | 0 | 02 | 3000 |

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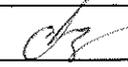
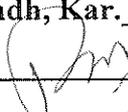
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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---|---|----|------|
|     | Backhaus Towel Clip<br>Moynihan Forceps 7"<br>Moynihan Forceps 8"<br>Langenback Retractor S - M - L<br>Round Body Retractor<br>Morris Retractor Medium<br>Deaver Retractor Set of 5 pcs<br>Balfour Selfretaining Retractor<br>Sinus forceps<br>Volkman Curette D/E<br>Aneurysm Needle<br>Watson Chyne Dissector<br>Silver Probe<br>Yaunker Suction Nozzle<br>Poole Suction Nozzle<br>Mayo Hegar Needle holder 6"<br>Mayo Hegar Needle holder 7"<br>Mayo Hegar Needle holder 8"<br>Mayo Hegar Needle holder 9"<br>Mayo Safety Pin<br>Kidney Tray 10"<br>Bowl 4"<br>Instruments tray large without lid<br>1<br><b>Country of Origin:</b> Imported/ Export Quality.<br><b>Should be:</b> ISO-13485 (Mandatory), CE Marked & FDA Approved. <b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end. | 6<br>1<br>1<br>6<br>2 |   |   |    |      |
| 36. | <b>Nitrous Oxide Cylinder</b><br><b>Specification:</b><br>Cylinder 240 CFT.<br><ul style="list-style-type: none"> <li>• BOC Tested.</li> <li>• Brand New.</li> <li>• With Flow meter.</li> </ul> <b>Country of Origin:</b> IMPORTED.<br><b>Should Be:</b> ISO Approved Or CE Marked. <b>Warranty:</b><br>Should be Standard 03 Years Warranty                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 04                    | 0 | 0 | 04 | 900  |
| 37. | <b>Surgical Drums</b><br><b>Specification:</b><br><ul style="list-style-type: none"> <li>• Size: 10 x 12</li> <li>• Drum, domed top and bottom with sliding removable band and drop down-hasps</li> <li>• Made from imported stainless steel, Rust resistant and Satin finish</li> </ul> <b>Or Equivalent</b><br><b>Country of Origin:</b> Imported/ Export Quality.<br><b>Should be:</b> ISO-13485 (Mandatory), CE Marked                                                                                                                                                                                                                                                                                                                                                                                                                                            | 20                    | 0 | 0 | 20 | 2500 |

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- c. Qazi Muhammad Amir, Bio-medical Technician, Elector-medical Workshop. QA
- d. Sunny Mohiuddin, Dy. Director (Procurement), Directorate of Pharmacy, Sindh, Kar. SM
- e. Rajeev Brahman, Pharmacist, Dr. Ruth K.M Pfau Civil Hospital Karachi. JB

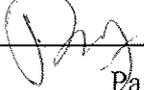
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|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|----|----|-------|
|     | & FDA Approved. <b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |   |    |    |       |
| 38. | <b>D &amp; E, Set</b><br><b>Specification:</b><br>Hegar Dilator Set of 8 Pcs<br>Utrine Curette D / E<br>Vulsellum forceps<br>Sherman Curette<br>Ramply sponge holding forceps<br>Towel Clip<br>CUSCO Speculum<br>Sims speculum Set of 3<br>Sims Uterine Sound<br>Metal Cathetar<br>Brown Tenaculum forceps<br>Flashing Curette<br>Plain forceps 8"<br>Bowl 4"<br>Bowl 8"<br>Instruments Tray<br><b>Country of Origin:</b> Imported/ Export Quality.<br><b>Should be:</b> ISO-13485 (Mandatory), CE Marked & FDA Approved.<br><b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end | 14 | 0 | 0  | 14 | 52000 |
| 39. | <b>Instrument Tray</b><br><b>Specification:</b><br>Made of stainless Steel<br><b>Country of Origin:</b> Imported/ Export Quality.<br><b>Should be:</b> ISO-13485 (Mandatory), CE Marked & FDA Approved. <b>Warranty:</b> Warranty period shall be of three years starting from date of installation of equipment to the consignee end.                                                                                                                                                                                                                                                                                                                     | 18 | 0 | 0  | 18 | 2000  |
| 40. | <b>Split Air Condition 1.5 Ton (Energy Sever)</b><br><b>Specification:</b><br>BTU Capacity 18000 BTU<br>Compressor W 5300<br>Low Voltage Startup 150V<br>Eco Friendly Refrigerant R410A<br>Energy Efficient Class A+ 60%<br>Electricity saving<br>Auto Voltage Adaptation 150V-260V<br>COOLING<br>BTU/H Capacity (H/S/L*)<br>19100/17750/5118<br>Output Capacity (W) (H/S/L*)                                                                                                                                                                                                                                                                              | 04 | 0 | 01 | 05 | 30000 |

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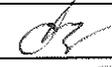
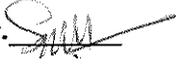
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|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|----|------|
|     | <p>5600/5200/1500<br/>Power Input (W)(H/S/L*)<br/>2100/1529/390<br/>Energy Efficiency Ratio (EER) 3.6<br/>HEATING<br/>BTU/HCapacity (H/S/L*)<br/>22550/19600/4260<br/>Output Capacity (W)(H/S/L*)<br/>6600/5750/1450<br/>PowerInput(W) (H/S/L*)<br/>2200/1580/390<br/>Energy EfficiencyRatio (EER) 3.6<br/>With compatible imported/export quality stabilizer.<br/>Complete installation and commissioning are the responsibility of the vendor Warranty three years including all parts Compressor warranty ten years Warranty 03 years from the date of installation</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |   |   |    |      |
| 41. | <p><b>Normal Delivery set</b><br/>Specification:</p> <p>Sterilizing box, stainless steel, 25 x 12 x 6cm.Mayo, dissecting scissors, 17cm, straight.<br/>Mayo, dissecting scissors, 17cm, curved<br/>Scissors, Standard 15 cm ( For stitching; Spencer is for stitch removal )Backhauss, towel forceps, 13cm.<br/>Foerster, sponge forceps, straight, 24cm.Dissecting forceps, medium, 16cm.<br/>Tissue forceps, medium, 16cm, 1x2 teeth.<br/>Rochester-Ochsner, forceps, straight, 18cm, 1x2 teeth<br/>Doyen, retractor, 90x45mm, concave, 24cm.<br/>Mayo-Hegar, needle holder, 16cm. Allis, tissue forceps, 4x5 teeth, 15cm.Dish, Kidney stainless steel 30 cm Bowl, Sponge 17 cm Scissors, Episiotomy Barnes angled 13 cm<br/><br/>Scissors, Cord umbilical 10 cm Made from imported stainless steel, Rust resistant and Satin finish<br/><b>Or Equivalent</b><br/><b>Country of Origin:</b> Imported/ Export Quality.<br/><b>Should be:</b> ISO-13485 (Mandatory), CE Marked &amp; FDA Approved.<br/><b>Warranty:</b> Warranty period shall be of three years starting from date of installation ofequipment to the consignee end.</p> | 10 | 0 | 0 | 10 | 6000 |
| 42. | <p><b>Episiotomy Set</b><br/>Specification:</p> <p>Made of stainless Steel<br/><b>Country of Origin:</b> Imported/ Export Quality.<br/><b>Should be:</b> ISO-13485 (Mandatory), CE Marked &amp; FDA Approved.<br/><b>Warranty:</b> Warranty period shall be of three years starting</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10 | 0 | 0 | 10 | 6000 |

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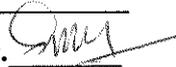
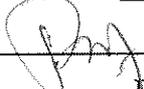
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|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|----|------|
|     | from date of installation of equipment to the consignee end.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |   |   |    |      |
| 43. | <p><b>Vacuum Extractor</b></p> <p><b>Specification:</b></p> <p><b>GENERAL DESCRIPTION</b><br/>Vacuum extractor, Bird (anterior &amp; posterior), manual, complete set.</p> <p><b>INTENDED USE</b><br/>An assembly of hand-operated devices designed to facilitate the delivery of a fetus during vaginal childbirth or Caesarean section by enabling traction to be applied to the fetal head by means of a suction cup that is attached to the scalp. It typically consists of a cup with a soft inner liner to prevent tissue damage, a hand-operated pump, and a handle used to apply traction. It is typically used for dystocia, uterine inertia, maternal exhaustion, maternal/fetal distress. This is a reusable device.</p> <p><b>TECHNICAL SPECIFICATIONS</b><br/>Vacuum extractor system to assist vaginal deliveries.<br/>Hand-operated suction pump supports the vacuum extraction.<br/>Vacuum range, adjustable: from 0 to -85kPa/-638mmHg or better<br/>Gauge dial, minimal graduation: 5kPa/40mmHg or better Accuracy vacuum gauge: <math>\pm 2.5</math>kPa or better<br/>All parts of the vacuum extractor can be disassembled. All parts can be disassembled and are autoclavable at 121°C<br/>requires no other than routine maintenance, manageable at the level of delivery rooms.</p> <p>SYSTEM IS SUPPLIED AS A COMPLETE SET CONSISTING OF<br/>1 x Vacuum pump<br/>2 x Bird type anterior suction cup, stainless steel: diameter rounded edges<br/>1 x Bird type posterior suction/extraction cup rounded edges<br/>3 x Soft vacuum extractor cups "sil-cup"<br/>2 x Extraction handle, stainless steel<br/>1 x Cover plug for vacuum collection bottle, with 3 holes (2 connectors +1 vacuum gauge)<br/>1 x Connector, angled, chrome plated<br/>1 x Connector angled with screw valve, chrome plated screw, cap and gasket<br/>1 x Vacuum gauge (0 to -100 kPa/- 800mmHg) with straight connector, chrome plated<br/>1 x Vacuum collection bottle, plastic 500ml<br/>1 x Basket, epoxy coated, supporting vacuum collection bottle and the vacuum pump, with large hook allowing to fit it to the delivery table.<br/>2 x Tube, silicone transparent, inner/outer diameter approx.: 6/11mm, respective lengths: 50 and 150cm<br/>IMPORTED/ EXPORT QUALITY.</p> | 02 | 0 | 0 | 02 | 6000 |

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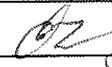
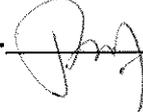
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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|----|----|------|
|     | Should be: ISO/CE certified<br>Warranty: Warranty period shall be of three years starting from date of satisfactory installation of equipment to the consignee end.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |   |    |    |      |
| 44. | <b>Lactometer</b><br>Specification:<br>Imported/ Export Quality<br>Should Be: ISO Approved Or CE Marked.<br>Warranty: Should be Standard 03 Years Warranty                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 02 | 0 | 0  | 02 | 450  |
| 45. | <b>Nebulizer Heavy Duty</b><br>Specification:<br>Continuous high-pressure performance. • Ultra-powerful compressor for both humidification and high flow • High-pressure nebulization of viscous medication. • Optimize medication delivery by aerosolizing to a particle size of < 2microns. • Lightweight, durable and easy-to-clean design. • Detachable door that protect componentry. • Maximum Compressor Pressure: up to 80 psi or better • Quiet Operation: with a 51 dBA or better noise level, the heavy-duty air compressor is one of the quietest continuous aerosol compressors on the market.<br>Warranty: Warranty period shall be of three years starting from date of satisfactory installation of equipment to the consignee end.<br>Country of Origin: IMPORTED. | 01 | 0 | 02 | 03 | 1500 |
| 46. | <b>Baby Weighing Scale</b><br>Specifications:<br>• Electronic weighing scale for infants<br>• High accurate sensor technology<br>• Accuracy: 0.01kg or better.<br>• Measure range: 30g ~ 30kg. Country of Origin: IMPORTED.<br>Should Be: ISO Approved Or CE Marked.<br>Warranty: Should be Standard 03 Years Warranty                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 03 | 0 | 0  | 03 | 600  |
| 47. | <b>Telephone set</b><br>Specification:<br>Panasonic/Sony/LG or Equivalent.<br>Warranty: Should be Standard 03 Years Warranty                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 01 | 0 | 01 | 02 | 180  |
| 48. | <b>X-Ray illuminator</b><br>Specification<br>Body structure made of MS welded Box<br>Epoxy Powder Coating<br>Light Intensity: Uniform central point 3000 cd/m. square<br>Diffusion Panel Screen: A semi translucent white acrylic sheet 3mm thickness<br>SS made firm grip<br>SS Strips holds the film from top                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 02 | 0 | 0  | 02 | 3000 |

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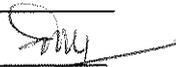
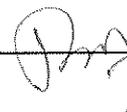
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|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|----|----|------|
|     | Power cable<br>1.5m long power supply (220V/50Hz)<br>External Dimensions: 32" x 24" x 4" (L x H x D)<br>3600 to 4000 kelvin daylight fluorescent LEDs<br>Homogeneity of the illuminated surface ensure that all zones are adequately illuminated<br>Power On/Off Switch<br>An Acryl-glass front panel<br>Stainless Steel Film support bar (grip)<br>MS Powder coated metal rear box<br>Wall mounted aids at rear side<br>Multiple films viewing capacity<br><b>USA/ Europe / Japan</b><br><b>Other countries accepted if CE, FDA, JIS, Approved (any two certifications)</b><br><b>Warranty 03 year from the date of installation</b>                                                                                                                                              |    |   |    |    |      |
| 49. | <b>Sphygmomanometer</b><br><b>Specification:</b> <ul style="list-style-type: none"> <li>• High quality stethoscope with stainless steel chestpiece, stainless steel double inner spring PVC tubing for unsurpassed acoustic performance.</li> <li>• Foam lined box and 2 extra sets of soft ear tips.</li> <li>• Chest-piece: Ø 45 mm (adult), Ø 35 mm (pediatric).</li> <li>• Fabric cuff with Velcro closure, reliable manometer with clip to be fixed on the cuff.</li> <li>• Scale 0-300 mmHg.</li> <li>• Air release at closed tap max 4 mm Hg/minute.</li> </ul> Manual setting of deflation possible up to 2/3 mm Hg.<br><b>OR Equivalent</b><br><b>Imported/ Export Quality</b><br>Should Be: ISO Approved Or CE Marked.<br>Warranty: Should be Standard 03 Years Warranty | 01 | 0 | 26 | 27 | 8100 |
| 50. | <b>Stethoscope</b><br><b>Specifications:</b> <ul style="list-style-type: none"> <li>• Dual Head Stethoscope for Adults</li> <li>• Lightweight aluminum chest piece construction</li> <li>• Non-chill bell and diaphragm rim for patient comfort</li> <li>• Diaphragm diameter 1 3/4", bell diameter 3/4"</li> </ul> Proprietary diaphragm enhances acoustic response by 50% over traditional designs                                                                                                                                                                                                                                                                                                                                                                               | 01 | 0 | 16 | 17 | 770  |

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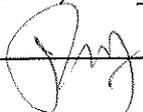
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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|---|----|------|
|     | <ul style="list-style-type: none"> <li>Adjustable aluminum binaurals with PVC ear tips</li> <li>Flexible 21" PVC tubing</li> </ul> <p>Included with spare pair of black mushroom ear tips</p> <p><b>OR Equivalent</b></p> <p><b>Imported/ Export Quality</b></p> <p>Should Be: ISO Approved Or CE Marked.</p> <p>Warranty: Should be Standard 03 Years Warranty</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |    |   |    |      |
| 51. | <p><b>Pillow</b></p> <p><b>Specification:</b></p> <ul style="list-style-type: none"> <li>Should be made from fiber balls and soft cotton.</li> </ul> <p><b>Local/ Export Quality.</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 53 | 0  | 0 | 53 | 500  |
| 52. | <p><b>Fresh plasma separator</b></p> <p><b>Specification:</b></p> <ul style="list-style-type: none"> <li>Adjustable optical sensor detects red cells</li> <li>Electronic clamp activates when optical sensor detects red cells</li> <li>Enables operator to multi-task during plasma separation process</li> <li>Provides uniform production output</li> <li>Large plate supports bags up to 600 ml</li> <li>Audible alarm</li> <li>Indicator lamps</li> </ul> <p><b>Country of Origin: UK, USA, Europe, Japan or equivalent.</b></p> <p><b>Should be: ISO-13485 (Mandatory) &amp; CE, JIS, FDA, MHLW</b></p> <p>(Other than UK, USA, Europe &amp; Japan) will be accepted if equivalent have any Two Certificate.</p> <p><b>Warranty: Warranty period shall be of three years starting from date of satisfactory installation of equipment</b></p> | 0  | 01 | 0 | 01 | 5000 |
| 53. | <p><b>Laser jet printer</b></p> <p><b>Specification:</b></p> <ul style="list-style-type: none"> <li>Print Speed up to 28-33 ppm-black normal – letter A4 Size (8.5 in x 11 in) up to 28-33 ppm-black normal – A4 Size (8.25 in x 11.7 in)</li> <li>Interface: USB, Gigabit LAN, Wifi.</li> <li>Max Resolution (Max) :1200 dpi</li> <li>Media Sizes:3 in x 5 in, legal (8.5 in x 14 in), letter A size (8.5 in x 11 in), 4.1 in x 5.8 in, 8.5 in x 13 in, A4 (8.25 in x 11.7 in), A5 (5.83 in x 8.25 in), A6 (4.13 in x 5.83 in), B5 (6.93 in x 9.83 in), Executive (7.25 in x 10.5 in), JIS B5 (7.17 in x 10.12 in)</li> <li>RAM Installed:128 MB / 128 MB (Max), Monthly Duty Cycle:5000 Pages &amp; Media Size Class:A4 / Legal</li> </ul>                                                                                                        | 0  | 02 | 0 | 02 | 5000 |

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- Majid Ali, Senior Equipment Engineer, NICH, KARACHI. 
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- Sunny Mohiuddin, Dy. Director (Procurement), Directorate of Pharmacy, Sindh, Kar. 
- Rajeev Brahman, Pharmacist, Dr. Ruth K.M Pfau Civil Hospital Karachi. 

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |    |    |    |      |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|----|----|------|
|     | HP/ Canon<br>Should Be: ISO Approved Or CE Marked.<br>Warranty: Should be Standard 03 Years Warranty                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |    |    |    |      |
| 54. | <b>Television set LED</b><br><b>Specification:</b><br>39" Inch LED or more<br>(Samsung /Philips/LG/Sony/ or Equipment)<br>Must be CE Marked Product/ Export Quality<br>Warranty: Should be Standard 03 Years Warranty                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0 | 01 | 01 | 02 | 7000 |
| 55. | <b>Steamer</b><br><b>Specification:</b><br>Steam vaporizer Can be disinfectedAdult mask<br>Mouthpiece Nosepiece<br>Mains connection: 220-240V/50-60 Hz<br>Technology: Nebulization of liquids such as<br>saline solution and essential oils Nebulization<br>performance: Steam setting can be varied for<br>individual treatmentsIMPORTED/ EXPORT<br>QUALITY.<br>Should be: ISO/CE certified<br>Warranty: Warranty period shall be of three years<br>starting from date of installation ofequipment to the<br>consignee end.                                                                                                                                                                              | 0 | 0  | 02 | 02 | 300  |
| 56. | <b>Laparotomy set</b><br>B.P Handle No 3& 4<br>B.P Handle No 7 Sponge holding forcps<br>Towel Clip Needle holder 6"<br>Needle holder 7"<br>Needle holder 8"<br>Needle holder 10"<br>Pool Suction nozal Metzenbaum<br>Scissor 7"<br>Cvd Metzenbaum<br>Scissor 8" Cvd Metzenbaum<br>Scissor 9" Cvd<br>Mayo Scissor 7" Str<br>Mayo Scissor 7" CvdMayo Scissor 8" Str<br>Adson forcps tooth / non tooth 1+1<br>McIndoe forcps 6"<br>Dissecting forcps Plain /<br>Tooth 7" 1+1<br>Dissecting forcps<br>Plain / Tooth 8" 1+1<br>Plain forcps fine<br>Long<br>Crile artery forcps Cvd 5 1/2"<br>Crile artery forcps Str 5 1/2"<br>Allis tissue forcps 6"<br>Allis tissue forcps 8"<br>Mosquito artery forcps Str | 0 | 0  | 03 | 03 | 7500 |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| <p>Mosquito artery forceps Cvd<br/> Kocher Artery forceps 7" str/ cvd 4+4<br/> Kocher Artery forceps 8" cvd<br/> Kocher Artery forceps 9" str / cvd 4+4<br/> Artery forceps 9" Cvd fine<br/> Babcock intestinal forceps 6"<br/> Babcock intestinal forceps 7"<br/> Babcock intestinal forceps 8"<br/> Langen back Retractor Large<br/> Langen back Retractor Med<br/> Langen back Retractor Small<br/> Sinus forceps 7"<br/> Volkman Curette D/E<br/> Aneurysm Needle<br/> Watson Chyne Dissector<br/> Pyre Crushing Clamp L<br/> Pyre Crushing Clamp M<br/> Pyre Crushing Clamp S<br/> Non Crushing Clamp str<br/> Non Crushing Clamp cvd<br/> Morris Retractor med<br/> Lahey forceps 8"<br/> Yaunker suction nozal<br/> Balfour Selfretaining Retractor<br/> Kidney pedical Clamp<br/> Kidney tray 10"<br/> Bowl 4"<br/> Instruments tray large without lid<br/> <b>Or Equivalent</b><br/> <b>Country of Origin:</b> Imported/ Export Quality.<br/> , CE Marked &amp; FDA Approved.<br/> <b>Warranty:</b> Warranty period shall be of three<br/> years starting from date of installation of<br/> equipment to the consignee end.</p> |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|

*[Handwritten signature]*

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- e. Rajeevv Brahman, Pharmacist, Dr. Ruth K.M Pfau Civil Hospital Karachi. *[Signature]*

# HUMAN RESOURCE INCLUDING DETAIL OF TECHNICAL TEAM

## (FORM A)

| S. # | Name | Designation | Posted Location | Date of Joining | Education | Trainings |
|------|------|-------------|-----------------|-----------------|-----------|-----------|
|      |      |             |                 |                 |           |           |
|      |      |             |                 |                 |           |           |
|      |      |             |                 |                 |           |           |
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|      |      |             |                 |                 |           |           |
|      |      |             |                 |                 |           |           |
|      |      |             |                 |                 |           |           |

Note: Supporting Documents must be provided for each employee.

### CEO/Proprietor/Managing Director

Name: \_\_\_\_\_

Email Address: \_\_\_\_\_

Cell Phone: \_\_\_\_\_

### Director/General Manager Services

Name: \_\_\_\_\_

Email Address: \_\_\_\_\_

Cell Phone: \_\_\_\_\_

### Director/General Manager Sales

Name: \_\_\_\_\_

Email Address: \_\_\_\_\_

Cell Phone: \_\_\_\_\_

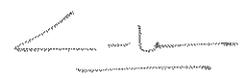
### Technical Focal Person for this Project

Name: \_\_\_\_\_

Email Address: \_\_\_\_\_

Cell Phone: \_\_\_\_\_

Address: \_\_\_\_\_



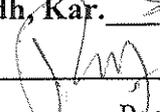
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e. Rajeev Brahman, Pharmacist, Dr. Ruth K.M Pfau Civil Hospital Karachi. 

## SPECIALIZED TESTING AND CALIBRATION TOOLS(FORM B)

Supporting Documents must be provided for each specialized tool

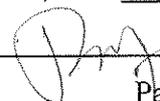
| S. # | Tool Description | Make | Model | Date of Purchase | Date of Last Calibration |
|------|------------------|------|-------|------------------|--------------------------|
|      |                  |      |       |                  |                          |
|      |                  |      |       |                  |                          |
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|      |                  |      |       |                  |                          |

## MAJOR SPARE PARTS(FORM C)

- Purchase documents must be provided,
- It may include Sensor, PCB, LCD display, Pumps, motors, detectors, Laser and other items recommended by manufacturer etc., list of recommended spare parts must also be provided.
- Parts such as cables, connectors will not be considered major spare parts.
- Bidder using an inventory management software may provide a software generated list instead of the below format.

| S. # | Part Number | Part Description | Make | Model | Date of Purchase | Qty |
|------|-------------|------------------|------|-------|------------------|-----|
|      |             |                  |      |       |                  |     |
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|      |             |                  |      |       |                  |     |
|      |             |                  |      |       |                  |     |



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## FINANCIAL EVALUATION SHEET(FORM E)

|           | Annual Turnover for the last 3 years Year (PKR) |
|-----------|-------------------------------------------------|
| Year 2024 |                                                 |
| Year 2023 |                                                 |
| Year 2022 |                                                 |

| Financial Information in PKR | Year 2024 | Year 2023 | Year 2022 |
|------------------------------|-----------|-----------|-----------|
| Total Assets (TA)            |           |           |           |
| Total Liabilities (TL)       |           |           |           |
| Current Assets (CA)          |           |           |           |
| Current Liabilities (CL)     |           |           |           |
| Total / Gross Revenue (TR)   |           |           |           |
| Profits Before Taxes (PBT)   |           |           |           |
| Net Profit                   |           |           |           |
| Current Ratio                |           |           |           |

| Supporting Document                  | Yes / No  |
|--------------------------------------|-----------|
| Bank Statement                       | Year 2024 |
|                                      | Year 2023 |
|                                      | Year 2022 |
| Audited Accounts                     | Year 2024 |
|                                      | Year 2023 |
|                                      | Year 2022 |
| Bank Account Maintenance Certificate |           |

*(Handwritten signature)*

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- b. Majid Ali, Senior Equipment Engineer, NICH, KARACHI. *Majid*
- c. Qazi Muhammad Amir, Bio-medical Technician, Elector-medical Workshop. *Qazi*
- d. Sunny Mohiuddin, Dy. Director (Procurement), Directorate of Pharmacy, Sindh, Kar. *Sunny*
- e. Rajeev Brahman, Pharmacist, Dr. Ruth K.M Pfau Civil Hospital Karachi. *Rajeev*





## PERFORMANCE CERTIFICATE(FORM H)

[on bidder's letter head]

This is to certify that the institute is satisfied by the performance of the firm and equipment as detailed below.

Purchase Order No: \_\_\_\_\_, dated \_\_\_\_\_  
Make & Model no.: \_\_\_\_\_  
Serial Number: \_\_\_\_\_  
Quantity: \_\_\_\_\_  
Name of the consignee: \_\_\_\_\_

The Firm has fulfilled his contractual obligation regarding the following services:  
Satisfactory Installation, performance, and commissioning of equipment.  
Furnishing detailed operation and maintenance manual for each equipment.  
Training of the operators/users in operating the equipment to the satisfaction of the Institute.  
Maintain up time of % \_\_\_\_\_  
Perform Preventative maintenance at \_Interval during warranty/contract period  
Provide Spare parts timely

Biomedical Engineering Department:

Name \_\_\_\_\_

Designation \_\_\_\_\_

Date \_\_\_\_\_

Signature with Stamp \_\_\_\_\_

Head of the Institute/Medical Director/Medical Superintendent \_\_\_\_\_

Name \_\_\_\_\_

Designation \_\_\_\_\_

Date \_\_\_\_\_

Signature with Stamp \_\_\_\_\_

Representative of the firm

Name \_\_\_\_\_

Designation \_\_\_\_\_

Date \_\_\_\_\_

Signature with Stamp \_\_\_\_\_

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- Sunny Mohiuddin, Dy. Director (Procurement), Directorate of Pharmacy, Sindh, Kar. \_\_\_\_\_
- Rajeev Brahman, Pharmacist, Dr. Ruth K.M Pfau Civil Hospital Karachi. \_\_\_\_\_

## BID LETTER FORM

From:

(Registered name and address of the bidder)To:

**DIRECTOR GENERAL HEALTH SERVICES SINDH HYDERABAD**

Dear Sir / Madam,

Having examined the bidding document and amendment thereon we the undersigned, offer to provide services to the works including in conformity with the terms and conditions of the bidding document and amendments there on, for the following project in response to your tender call dated \_\_\_\_\_

Tender Title: .....

We undertake to provide services/execute the above project or it part assigned to us in conformity with the said bidding documents for an estimated sum of Rs. \_\_\_\_\_ (Rupees - \_\_\_\_\_) (total bid amount in words and figures) which may vary in accordance with the schedule of prices attached herewith and coverage options made by Drug Testing Laboratory Sindh or its user organization.

If our bid is accepted, we undertake to;

- 1) Provide services/execute the work according to the time schedule specified in the bid document,
- 2) Obtain the performance guarantee of bank in accordance with bid requirements for the due performance of the contract, and
- 3) Agree to abide by the bid conditions, including pre-bid meeting minutes if any, which remain binding upon us during the entire bid validity period and bid may be accepted any time before the expiration of that period.
- 4) We understand that you are not bound to accept the lowest or any bid you may receive, nor to give any reason for the rejection of any bid and that you will not defray any expenses incurred by us in bidding.

Place:

Bidder's signature

Date:

and seal.



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- c. Qazi Muhammad Amir, Bio-medical Technician, Elector-medical Workshop. QAM
- d. Sunny Mohiuddin, Dy. Director (Procurement), Directorate of Pharmacy, Sindh, Kar. SM
- e. Rajeev Brahman, Pharmacist, Dr. Ruth K.M Pfau Civil Hospital Karachi. Rajeev

## CONTRACT FORM

THIS AGREEMENT made the ..... Day of..... (year) Between the Procuring Agency (hereinafter "the \_\_\_\_\_") of one part and .....(Name of Vendor) of .....(City and country of Vendor) (Hereinafter "the Supplier") of the other part: WHEREAS the \_\_\_\_\_ is desirous that certain Supplies, as described in the bid document and briefly outlined below, should be provided by the Vendor.

Date of tender call:

Title of the project:

Brief outline of the work:

### NOW THIS AGREEMENT WITNESSETH AS FOLLOWS;

In this agreement words and expression shall have the same meanings as are respectively assigned to them in the bid document referred to.

The following document shall be deemed to form and be read and construed as part of this Contract, viz..

- 1) Bid document(s)
- 2) Pre-bid conference minutes if any,
- 3) Clarification on bid document issued if any,
- 4) **DIRECTOR GENERAL HEALTH SERVICES SINDH HYDERABAD** of award notification.

In case of conflict among documents mentioned above, the documents mentioned above in reverse order will prevail over other documents. In consideration of the payments to be made by the **DIRECTOR GENERAL HEALTH SERVICES SINDH HYDERABAD** to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the **DIRECTOR GENERAL HEALTH SERVICES SINDH HYDERABAD (Tender Title. ....**

.....) and to remedy defects therein conformity, in all respects, with the provisions of the contract.

The **DIRECTOR GENERAL HEALTH SERVICES SINDH HYDERABAD** hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the contract price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

Brief particulars of the services which shall be supplied/provided by the Supplier are as under:

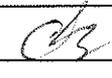
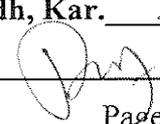
| Solutions, service or material | Quantity | Unit price | Amount | Remarks |
|--------------------------------|----------|------------|--------|---------|
|                                |          |            |        |         |
|                                |          |            |        |         |

IN WITNESS whereof the parties hereto have caused this Agreement executed the day and year abovewritten.

Signed, sealed, delivered by \_\_\_\_\_ the (for the Procuring agency) Signed, sealed, delivered by \_\_\_\_\_ the (for the Supplier)



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**FORM OF PERFORMANCE SECURITY  
(Bank Guarantee)**

Guarantee No.: \_\_\_\_\_

Executed on: \_\_\_\_\_

Expiry date: \_\_\_\_\_

[Letter by the Guarantor to the Employer]

Name of Guarantor (Bank) with complete address (Scheduled Bank in Pakistan):

Name of Principal (Contractor, Manufacturer, Supplier or any bidder) with complete address:

Penal Sum of Security (express in words and figures):

Letter of Acceptance No. \_\_\_\_\_ Dated: \_\_\_\_\_

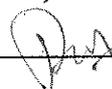
KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bidding Documents and above said Letter of Acceptance (hereinafter called the Documents) and at the are e of the said Principal we, the Guarantor above named, are held and firmly bound unto the **DIRECTOR GENERAL HEALTH SERVICES SINDH HYDERABAD** (hereinafter called the Employer) in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said Employer, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that whereas the Principal has accepted the Employer's above said Letter of Acceptance for \_\_\_\_\_ (Name of Contract) for the \_\_\_\_\_(Name of Project).

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Employer, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Condition of Contract are fulfilled. Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us



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within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

We, \_\_\_\_\_ (the Guarantor), waiving all objections and defenses under the Contract, do hereby irrevocably and independently guarantee to pay to the Employer without delay upon the Employer's first written demand without cavil or arguments and without requiring the Employer to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Employer's \_\_\_\_\_ written declaration that the Principal has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarantor to Employer's designated Bank & Account Number.

PROVIDED ALSO THAT the Employer shall be the sole and final judge for deciding whether the Principal (Contractor) has duly performed his obligations under the Contractor has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the Employer forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above-bounden Guarantor has executed this Instrument under its seal on the date indicated above, the name and corporate seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Witness:

\_\_\_\_\_  
Guarantor (Bank)

1. \_\_\_\_\_  
(Name, Title, Signature & Seal)

2. \_\_\_\_\_  
(Name, Title, Signature & Seal)

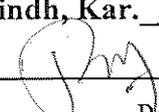
Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_



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## INTEGRITY PACT

### DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC PAYABLE BY THE SUPPLIERS/CONTRACTORS/CONSULTANTS

Contract Number: NO. \_\_\_\_\_ Dated: \_\_\_\_\_  
Contract Value: Rs. \_\_\_\_\_  
Contract Title: \_\_\_\_\_

**M/s.** \_\_\_\_\_ hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoS) through any corrupt business practice.

Without limiting the generality of the foregoing, **M/s.** \_\_\_\_\_ represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit, in whatsoever form, **DIRECTOR GENERAL HEALTH SERVICES SINDH HYDERABAD**, except that which has been expressly declared pursuant hereto.

**M/s.** \_\_\_\_\_ certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with PA and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

**M/s.** \_\_\_\_\_ accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to PA under any law, contract or other instrument, be voidable at the option of PA. Notwithstanding any rights and remedies exercised by PA in this regard, **M/s.**

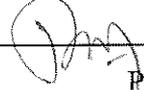
\_\_\_\_\_ agrees to indemnify PA for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to PA in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by **M/s.**

\_\_\_\_\_ as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit, in whatsoever form, from PA.

\_\_\_\_\_  
**M/s.** \_\_\_\_\_

  
\_\_\_\_\_  
**DIRECTOR GENERAL HEALTH SERVICES  
SINDH HYDERABAD**

**Prepared/Reviewed by following members of Technical Committee (Machinery Equipment / Furniture etc):**

- a. S. Zamir Hussain Shah, Bio Medical Engineer, Dr. Ruth K.M. Pfau Civil Hosp. Kar. 
- b. Majid Ali, Senior Equipment Engineer, NICH, KARACHI. 
- c. Qazi Muhammad Amir, Bio-medical Technician, Elector-medical Workshop. 
- d. Sunny Mohiuddin, Dy. Director (Procurement), Directorate of Pharmacy, Sindh, Kar. 
- e. Rajeev Brahman, Pharmacist, Dr. Ruth K.M Pfau Civil Hospital Karachi. 

# Bid Form & Price Schedule

## BID FORM

To:

**DIRECTOR GENERAL HEALTH SERVICES SINDH HYDERABAD** Dear Sir,  
Having examined the Bidding Documents, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver the goods specified in the said Bidding Documents for the sum of

[Total Bid Amount Rs. \_\_\_\_\_], [Bid Amount in words \_\_\_\_\_

only ] or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this bid.

1. The free of cost / donation / discounts offered and the methodology for their application are:

2. We undertake, if our bid is accepted, to deliver the goods in accordance with the delivery schedules specified in the Schedule of Requirements.

3. If our bid is accepted, we shall obtain an unconditional guarantee of a bank in the sum of 5% of the Contract Price for the due performance of the Contract, in the form prescribed by the Procuring Agency.

4. We agree to the validity of this bid for 90 days from the date fixed for financial bid opening and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

5. Until a formal Contract is prepared and executed, this bid, together with the written acceptance thereof and notification of award, by the Procuring Agency, shall constitute a binding Contract between us.

6. We understand that you are not bound to accept the lowest or any bid you may receive.

Name \_\_\_\_\_

In the capacity of \_\_\_\_\_

Signed \_\_\_\_\_

Duly authorized to sign the Bid for and on behalf of \_\_\_\_\_

Date \_\_\_\_\_

### (A) PRICE SCHEDULE IN PAK RUPEES delivered duty paid (DDP BASIS)

#### FOR GOODS OFFERED WITHIN THE PROCURING AGENCY'S COUNTRY

| S#                      | Detailed Specification of Goods | Model/ Cat No. | Name of Manufacturer | Country of Origin | Port of Shipment | Quantity of Stores | Unit | Rate Per Unit | Total Price |
|-------------------------|---------------------------------|----------------|----------------------|-------------------|------------------|--------------------|------|---------------|-------------|
| 1                       | 2                               | 2              | 4                    | 5                 | 6                | 7                  | 8    | 9             | 10          |
|                         |                                 |                |                      |                   |                  |                    |      |               |             |
|                         |                                 |                |                      |                   |                  |                    |      |               |             |
|                         |                                 |                |                      |                   |                  |                    |      |               |             |
|                         |                                 |                |                      |                   |                  |                    |      |               |             |
|                         |                                 |                |                      |                   |                  |                    |      |               |             |
| Total Amount in Pak Rs. |                                 |                |                      |                   |                  |                    |      |               |             |

Prepared/Reviewed by following members of Technical Committee (Machinery Equipment / Furniture etc):

a. S. Zamir Hussain Shah, Bio Medical Engineer, Dr. Ruth K.M. Pfau Civil Hosp. Kar. SM

b. Majid Ali, Senior Equipment Engineer, NICH, KARACHI. MA

c. Qazi Muhammad Amir, Bio-medical Technician, Elector-medical Workshop. QA

d. Sunny Mohiuddin, Dy. Director (Procurement), Directorate of Pharmacy, Sindh, Kar. SM

e. Rajeev Brahman, Pharmacist, Dr. Ruth K.M Pfau Civil Hospital Karachi. RB



## Schedule of Requirements

### SCHEDULE OF REQUIREMENTS

The entire quantity of the ordered supplies shall be delivered in 16 weeks or earlier from the date of issuance of supply order / contract award without any penalty. Delay in the delivery shall result in penalties to be paid by the Supplier without any argument or question according to the prevailing SPPRA Rules.

#### Prepared/Reviewed by following members of Technical Committee (Machinery Equipment / Furniture etc):

- a. S. Zamir Hussain Shah, Bio Medical Engineer, Dr. Ruth K.M. Pfau Civil Hosp. Kar. \_\_\_\_\_
- b. Majid Ali, Senior Equipment Engineer, NICH, KARACHI. \_\_\_\_\_
- c. Qazi Muhammad Amir, Bio-medical Technician, Elector-medical Workshop. \_\_\_\_\_
- d. Sunny Mohiuddin, Dy. Director (Procurement), Directorate of Pharmacy, Sindh, Kar. \_\_\_\_\_
- e. Rajeev Brahman, Pharmacist, Dr. Ruth K.M Pfau Civil Hospital Karachi. \_\_\_\_\_

#### Checked & approved by Expert Committee for Machinery Equipment:

|      |                                                                                                     |            |
|------|-----------------------------------------------------------------------------------------------------|------------|
| i.   | Dr. Shahid Pervez, Histopathologist, Aga Khan University Hospital Kyc.                              |            |
| ii.  | Dr. Binish Arif Sultan, Associate Professor & Head of Pathology Lab, JSMU, Karachi.                 |            |
| iii. | Prof. Dr. Tariq Mehmood, Professor Emeritus, Radiation Oncology, Member of PAF, JPMC, Karachi.      |            |
| iv.  | Dr. Syed Farjad Sultan, Associate Professor, Anaesthesia Department, DUHS / Civil Hospital Karachi. | S.F.Sultan |
| v.   | Prof. Dr. Sajida Qureshi, Professor of Surgery, DUHS / Dr. Ruth K.M. Pfau Civil Hospital Karachi.   | S. Qureshi |
| vi.  | Prof. Dr. Syed Mahmood Hassan, Professor of Pathology, JSMU, Karachi.                               | mm         |
| vii. | Dr. Shoaib Malik, Associate Professor, Anesthesia Department, JPMC Karachi.                         | Shoaib     |

#### CONCURRED BY:

  
**Professor Dr. Gulshan Ali Memon**  
Vice Chancellor, Peoples University of  
Medical & Health Sciences for Women,  
Nawabshah-Shaheed Benazirabad/  
Member

  
**Professor Dr. Ikram Din Ujjan**  
Vice Chancellor, Liaquat University  
Medical & Health Sciences, Jamshoro./  
Member



**Professor Dr. Nusrat Shah**  
Vice Chancellor, Shaheed Mohtarma  
Benazir Bhutto Medical University  
Larkana / Member



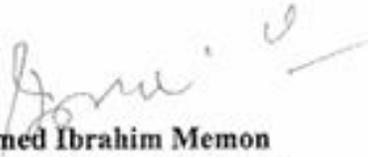
**Dr. Ahson Qavi Siddiqi**  
CEO, Health Care Commission  
Sindh/ Member



**Prof. Dr. Sajida Qureshi**  
Professor of Surgery,  
DUHS / Dr. Ruth K.M. Pfau  
CHK/ Member

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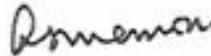
Special Secretary,  
Chief Minister's Inspection, Enquiries &  
Implementation Team Department,  
Govt. of Sindh/ Member



**Mr. Mohammed Ibrahim Memon**  
Additional Secretary (PM&I), Health  
Department, Govt. of Sindh/  
Member / Secretary

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Additional Secretary (GA),  
SGA&CD, Govt. of Sindh/  
Member



**Professor Dr. Amjad Siraj Memon**  
Vice Chancellor,  
Jinnah Sindh Medical University/  
Chairman

