

Patients' Aid Foundation (PAF)

Jinnah Postgraduate Medical Centre (JPMC)
Karachi.

TENDER FOR

Provision of Supply, Installation and Commissioning of Equipment & Civil
work for 6th Floor Surgical Complex at JPMC Karachi.

For The Financial Year 2023-2024

Tender No: II- Civil, Electrical, HVAC work & BMS System for Laminar flow

Technical Evaluation Report

Method of Procurement	Single Stage Two Envelope
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1. Tender was advertised on **8th July 2023**.
2. Following bidders purchased the tender:
 - a. M/s Total Construction Pvt Ltd.
 - b. M/s Accrescent Engineers
 - c. M/s National Technologies
 - d. M/s MIMA Construction Civil & Interior Works
 - e. M/s National Engineers Co.
3. Bid was only submitted by **M/s Total Construction Pvt Ltd.**
4. Technical opening of the tender was held on 22nd July 2023.

i. M/s Total Construction Pvt Ltd.	Technically approved
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Technical Compliance Sheet:

1. M/s Total Construction Pvt Ltd.

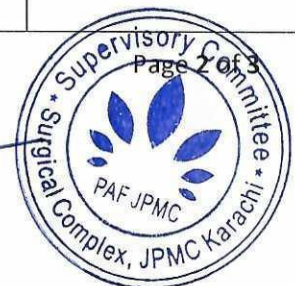
<p>1. Civil Work Consisting of:</p> <ol style="list-style-type: none">a. D2 Remove Door Frame & Shutter Cutting Stiffener Columns, Dismantling Wall Tiles, Wooden Tile Gola & Reduce Door Size From 3'-0"x8' to 3'-0"x7' i/c Block Masonry, Lintel, Plaster i/c Door Threshold Repairing.b. D3 Remove Door Frame & Shutter Dismantling Wall Tiles, Reduce Door Size from 3'-6"x8' to 3'-0"x7' i/c Block Masonry, Lintel & Plaster i/c Door Threshold Repairing.c. D7 Remove Wooden Door Frame & Shutter, Reduce Door Size from 6'-0"x8' to 5'-0"x7' i/c Block Masonry, Lintel & Plaster.d. Dismantling Block Masonry Wall.	Technically in Compliance
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<ul style="list-style-type: none"> e. Dismantling Block Masonry Wall f. Block Masonry 6" Thick I/c Lead & Lifting g. Remove & Re-Fixing Dirty Corridor 5'x5' Window Grill With Installation Wire Mesh h. Internal Plaster i. Internal Paint j. Wall Tiles (Basic Rate 250.Sft) k. Wash terrazzo on Wall (Rate Take From Gynae Ward + Plaster) l. Gypsum Ceiling (Rate Take From Gynae Ward) m. Wooden Wall Tile Gola (Rate Take From Gynae Ward) n. Cement Sheet Cladding with Partial Wood Frame o. Duct Opening Cutting in Block Wall including Jamb Repairing (Approx. Size=3'x3') 	
<p>2. HVAC Work Consisting of:</p> <ul style="list-style-type: none"> a. Machine Made G.I Sheet metal Duct Supply, Installation, testing & Commissioning of Machine made G.I. sheet metal ducts with related material such as nut bolts gasket etc. for supply and return air. b. XLPE insulation Supply and installation of 20mm thick self-adhesive XLPE insulation with Aluminium Faced with related material. c. Air devices <ul style="list-style-type: none"> a. Supply and installation of volume control damper. <ul style="list-style-type: none"> i. 36" x 08" ii. 24" x 14" iii. 18" x 08" iv. 30" x 16" v. 20" x 16" vi. 16" x 08" b. Installation of owner supplied VAV boxes with hangers & supports for supply & return air. c. Supply and Installation of flexible duct connector for laminar connections. d. Supply and installation of Hanger & supports for supply & return air Ducts. e. Testing & Commissioning of HVAC system f. Providing and making of shop drawings and as built drawings. 	<p>Technically in Compliance</p>
<p>3. Electrical Works Consisting of:</p> <ul style="list-style-type: none"> a. Supply & Installation 25mm dia PVC conduit. b. DB of Manual change over (MCO) for 6h floor UPS. 	<p>Technically in Compliance</p>
<p>4. BMS System for Laminar Flow Consisting of: Pressure Transmitter. Choice of Full Scale Ranges ± 0.25" WC (± 62.27 Pa) ± 0.50" WC (± 124.54 Pa) Temperature Operating °F (°C) 32 to +120 (0 to +50) Storage</p>	<p>Technically in Compliance</p>





°F (°C) -20 to +160 (-30 to +70)

Operating Humidity
5 to 95 % RH (non-condensing)

Physical Description
Display 4.3" touch-screen TFT LCD, 480 x 272 pixels,

Interoperability
BACnet® compliant on MS/TP LAN at up to 76.8 Kbps

BMS Controller

BACtalk field controller for central plant systems application with 11 inputs, 8 binary triac outputs, 8 analog outputs

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Patients' Aid Foundation (PAF)

Jinnah Postgraduate Medical Centre (JPMC)
Karachi.

TENDER FOR

Provision of Supply, Installation and Commissioning of Equipment & Civil work for
6th Floor Surgical Complex at JPMC Karachi.

For The Financial Year 2023-2024

Tender No: II- Civil, Electrical, HVAC work & BMS System for Laminar flow

BID EVALUATION REPORT

Method of Procurement

Single Stage Two Envelope

1. Tender was advertised on 8th July 2023.
2. Following bidders purchased the tender:
 - a. M/s Total Construction Pvt Ltd.
 - b. M/s Accrescent Engineers
 - c. M/s National Technologies
 - d. M/s MIMA Construction Civil & Interior Works
 - e. M/s National Engineers Co.
3. Bid was only submitted by M/s **Total Construction Pvt Ltd.**
4. Technical opening of the tender was held on 22nd July 2023.

i. M/s Total Construction Pvt Ltd.

Technically approved

5. Financial Bids were opened on 25th July 2023.

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Details of the Bid Security submitted by qualified / responsive bidders is mentioned here under:

No.	Bidder Name	Bid Security Submitted	Bank Instrument No. & Date	Bank Particulars	Status
1	M/s. Total Construction Pvt. Ltd	Rs. 347,230/-	PO # 04843186 Date: 22/07/2023	Meezan Bank	Qualified for Financial Evaluation.

Account Payee Only

NOT OVER Rs. *347,230.00*


 **Meezan Bank**
The Premier Islamic Bank

(0115) DHA PHASE-II (EXT.) BRANCH, KARACHI - PAKISTAN

Pay to *PATIENT'S AID FOUNDATION* or Order

Rupees *THREE HUNDRED AND FORTY SEVEN THOUSAND TWO HUNDRE-
D AND THIRTY ONLY*

PAYABLE AT ANY BRANCH
Please do not write below this line.



P.O. No. PO.0115.4843186
Stationery/Ref No: **04843186**

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PKR *347,230.00*

Hafiz Zain Ul Abideen
Authorized Signatory
Attorney No. 01624

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Authorized Signatory
Attorney No.

⑈04843186⑈0890115⑈1757100010115⑈020⑈

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Financial Proposals

Price Schedule

Supply, installation and commissioning of Civil, HVAC & Electrical work & BMS System (Laminar Flow) for Operation Theatres for the Financial Year 2023-2024

S. No	Name Of Item	Unit	Qty.	Unit Price CFR	Total Price CFR
CIVIL WORK					
1.	D2 Remove Door Frame & Shutter Cutting Stiffner Columns, Dismantling Wall Tiles, Wooden Tile Gola &	Each	9	16756/-	150804/-
2.	D3 Remove Door Frame & Shutter Dismantling Wall Tiles, Reduce Door Size from 3'-6"x8' to 3'-0"x7' i/c Block Masonry, Lintel & Plaster i/c Door Threshold Repairing.	Each	8	16756/-	134048/-
3.	D7 Remove Wooden Door Frame & Shutter, Reduce Door Size from 6'-0"x8' to 5'-0"x7' i/c Block Masonry, Lintel & Plaster	Each	9	16295/-	146655/-
4.	Dismantling Block Masonry Wall	Sft	242.66	167/-	40523/-
5.	Block Masonry 6" Thick I/c Lead & Lifting	Sft	256.50	330/-	84645/-
6.	Remove & Re-Fixing Dirty Corridor 5'x5' Window Grill With Installation Wire Mesh	Each	20	20722/-	414440/-
7.	Internal Plaster	Sft	256.50	132/-	33858/-
8.	Internal Paint	Sft	4777.83	100/-	477783/-
9.	Wall Tiles	Sft	515	745/-	383675/-
10.	Wash terrazzo on Wall (Rate Tanke From Gyne Ward + Plaster)	Sft	96	675/-	64800/-
11.	Gypsum Ceiling (Rate Tanke From Gyne Ward)	Sft	1500	584/-	876000/-
12.	Wooden Wall Tile Gola (Rate Tanke From Gyne Ward)	Rft	64	657/-	42048/-
13.	Cement Sheet Cladding with Partal Wood Frame	Sft	2472	650/-	1606800/-
14.	Duct Opening Cutting in Block Wall including Jamb Repairing (Approx Size=3'x3')	Each	27	6000/-	162000/-



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HVAC WORK					
1.	Machine Made G.I Sheet metal Duct Supply, Installation, testing & Commissioning of Machine made G.I. sheet metal ducts with related material such as nut bolts gasket etc. for supply and return air.	Sqft	6600	575/-	3795000/-
2.	XLPE insulation Supply and installation of 20mm thick self-adhesive XLPE insulation with Aluminum Faced with related material.	Sqft	7000	288/-	2016000/-
3.	Air devices Supply and installation of volume control damper.				
4.	36" x 08"	Nos	18	12650/-	227700/-
5.	24" x 14"	Nos	5	14663/-	73315/-
6.	18" x 08"	Nos	5	7475/-	37375/-
7.	30" x 16"	Nos	5	20470/-	102350/-
8.	20" x 16"	Nos	5	14375/-	71875/-
9.	16" x 08"	Nos	5	6302/-	31510/-
10.	Installation of owner supplied VAV boxes with hangers & supports for supply & return air.	Nos	16	5750/-	92000/-
11.	Supply and Installation of flexbile duct connector for luminar connections.	Rft	280	1266/-	354480/-
12.	Supply and installation of Hanger & supports for Supply & return air Ducts.	Job	1	230000/-	230000/-
13.	Testing & Commissioning of HVAC system	Job	9	28750/-	258750/-
14.	Providing and making of shop drawings and as built Drawings.	Job	1	46000/-	46000/-
ELECTRICAL WORK					
1.	Supply & Installation 25mm dia PVC conduit	Rft	500	153/-	76500/-
2.	DB of Manual change over (MCO) for 6h floor UPS	Nos	1	719550/-	719550/-



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BMS SYSTEM FOR LAMINAR FLOW					
A AHU-08					
A-1	Temperature Sensors Duct (Services)	Nos	3	18500/-	55500/-
A-2	Motorized Damper Actuator (Services)	Nos	3	16938/-	50813/-
A-3	Relative Humidity Sensor (Services)	Nos	2	20375/-	40750/-
A-4	Smoke Detector (Services)	Nos	1	23750/-	23750/-
A-5	Fire Stat (Services)	Nos	3	19875/-	59625/-
A-6	Differential Pressure Switch (Services)	Nos	3	21250/-	63750/-
A-7	2-Way Motorized Valve Body (Pioneer Scope)	Nos	2	7250/-	14500/-
A-8	2-Way Motorized Valve Actuator (Services)	Nos	3	21875/-	65625/-
A-9	DDC Controller (Services)	Nos	1	13438/-	13438/-
A-10	DDC Controller (Services)	Nos	1	14875/-	14875/-
A-11	Control DB (Services)	Nos	1	23938/-	23938/-
A-12	Control Cable , uPVC Conduit & accessories (Supply & Installation)	Nos	1	16750/-	16750/-
A-13	Communication Cable , Conduit & accessories (Supply & Installation)	Nos	1	18500/-	18500/-
A AHU-09					
A-1	Temperature Sensors Duct (Services)	Nos	3	18500/-	55500/-
A-2	Motorized Damper Actuator (Services)	Nos	3	16938/-	50813/-
A-3	Relative Humidity Sensor (Services)	Nos	2	20375/-	40750/-
A-4	Smoke Detector (Services)	Nos	1	23750/-	23750/-
A-5	Fire Stat (Services)	Nos	3	19875/-	59625/-

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 Nadeem Hussain
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A-6	Differential Pressure Switch (Services)	Nos	3	21250/-	63750/-
A-7	2-Way Motorized Valve Body (Pioneer Scope)	Nos	2	7250/-	14500/-
A-8	2-Way Motorized Valve Actuator (Services)	Nos	3	21875/-	65625/-
A-9	DDC Controller (Services)	Nos	1	13438/-	13438/-
A-10	DDC Controller (Services)	Nos	1	14875/-	14875/-
A-11	Control DB (Services)	Nos	1	23938/-	23938/-
A-12	Control Cable , uPVC Conduit & accessories (Supply & Installation)	Nos	1	16750/-	16750/-
A-13	Communication Cable , Conduit & accessories (Supply & Installation)	Nos	1	18500/-	18500/-
A AHU-10					
A-1	Temperature Sensors Duct (Services)	Nos	3	18500/-	55500/-
A-2	Motorized Damper Actuator (Services)	Nos	3	16938/-	50813/-
A-3	Relative Humidity Sensor (Services)	Nos	2	20375/-	40750/-
A-4	Smoke Detector (Services)	Nos	1	23750/-	23750/-
A-5	Fire Stat (Services)	Nos	3	19875/-	59625/-
A-6	Differential Pressure Switch (Services)	Nos	3	21250/-	63750/-
A-7	2-Way Motorized Valve Body (Pioneer Scope)	Nos	2	7250/-	14500/-
A-8	2-Way Motorized Valve Actuator (Services)	Nos	3	21875/-	65625/-
A-9	DDC Controller (Services)	Nos	1	13438/-	13438/-
A-10	DDC Controller (Services)	Nos	1	14875/-	14875/-
A-11	Control DB (Services)	Nos	1	23938/-	23938/-
A-12	Control Cable , uPVC Conduit & accessories (Supply & Installation)	Nos	1	16750/-	16750/-
A-13	Communication Cable , Conduit & accessories (Supply & Installation)	Nos	1	18500/-	18500/-

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A AHU-11				
A-1	Temperature Sensors Duct (Services)	Nos	3	18500/- 55500/-
A-2	Motorized Damper Actuator (Services)	Nos	3	16938/- 50813/-
A-3	Relative Humidity Sensor (Services)	Nos	2	20375/- 40750/-
A-4	Smoke Detector (Services)	Nos	1	23750/- 23750/-
A-5	Fire Stat (Services)	Nos	3	19875/- 59625/-
A-6	Differential Pressure Switch (Services)	Nos	3	21250/- 63750/-
A-7	2-Way Motorized Valve Body (Pioneer Scope)	Nos	2	7250/- 14500/-
A-8	2-Way Motorized Valve Actuator (Services)	Nos	3	21875/- 65625/-
A-9	DDC Controller (Services)	Nos	1	13438/- 13438/-
A-10	DDC Controller (Services)	Nos	1	14875/- 14875/-
A-11	Control DB (Services)	Nos	1	23938/- 23938/-
A-12	Control Cable , uPVC Conduit & accessories (Supply & Installation)	Nos	1	16750/- 16750/-
A-13	Communication Cable , Conduit & accessories (Supply & Installation)	Nos	1	18500/- 18500/-
A AHU-12				
A-1	Temperature Sensors Duct (Services)	Nos	3	18500/- 55500/-
A-2	Motorized Damper Actuator (Services)	Nos	3	16938/- 50813/-
A-3	Relative Humidity Sensor (Services)	Nos	2	20375/- 40750/-
A-4	Smoke Detector (Services)	Nos	1	23750/- 23750/-
A-5	Fire Stat (Services)	Nos	3	19875/- 59625/-
A-6	Differential Pressure Switch (Services)	Nos	3	21250/- 63750/-
A-7	2-Way Motorized Valve Body (Pioneer Scope)	Nos	2	7250/- 14500/-



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A-2	Motorized Damper Actuator (Services)	Nos	3	16938/-	50813/-
A-3	Relative Humidity Sensor (Services)	Nos	2	20375/-	40750/-
A-4	Smoke Detector (Services)	Nos	1	23750/-	23750/-
A-5	Fire Stat (Services)	Nos	3	19875/-	59625/-
A-6	Differential Pressure Switch (Services)	Nos	3	21250/-	63750/-
A-7	2-Way Motorized Valve Body (Pioneer Scope)	Nos	2	7250/-	14500/-
A-8	2-Way Motorized Valve Actuator (Services)	Nos	3	21875/-	65625/-
A-9	DDC Controller (Services)	Nos	1	13438/-	13438/-
A-10	DDC Controller (Services)	Nos	1	14875/-	14875/-
A-11	Control DB (Services)	Nos	1	23938/-	23938/-
A-12	Control Cable , uPVC Conduit & accessories (Supply & Installation)	Nos	1	16750/-	16750/-
A-13	Communication Cable , Conduit & accessories (Supply & Installation)	Nos	1	18500/-	18500/-
B FCU 6-1 - 6-3					
B-1	Thermostat (Services)	Nos	3	3500/-	10500/-
B-2	2-Way Modulating Valve	Nos	3	1975/-	5925/-
B-3	Control Cable , uPVC Conduit & accessories (Supply & Installation)	Nos	3	4624/-	13871/-
C OPERATION THEATOR 18-AHU/08					
C-1	Room Temperature & Humidity sensor (Services)	Nos	1	21250/-	21250/-
C-2	Differential Pressure Sensor (Services)	Nos	1	23750/-	23750/-
C-3	Power DB (Supply)	Nos	1	30000/-	30000/-
C-4	Power DB (Services)	Nos	1	23938/-	23938/-
C-5	Control Cable , uPVC Conduit & accessories (Supply & Installation)	Nos	1	11043/-	11043/-

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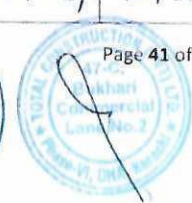
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C-6	Communication Cable , Conduit & accessories (Supply & Installation)	Nos	1	12188/-	12188/-
G. OPERATION THEATOR 12-AHU/11					
G-1	Room Temperature & Humidity sensor (Services)	Nos	1	21250/-	21250/-
G-2	Differential Pressure Sensor (Services)	Nos	1	23750/-	23750/-
G-3	DDC Controller (Services)	Nos	1	30000/-	30000/-
G-4	Control DB (Services)	Nos	1	23938/-	23938/-
G-5	Control Cable , uPVC Conduit & accessories (Supply & Installation)	Nos	1	11043/-	11043/-
G-6	Communication Cable , Conduit & accessories (Supply & Installation)	Nos	1	12188/-	12188/-
G. OPERATION THEATOR 11-AHU/11					
G-1	Room Temperature & Humidity sensor (Services)	Nos	1	21250/-	21250/-
G-2	Differential Pressure Sensor (Services)	Nos	1	23750/-	23750/-
G-3	DDC Controller (Services)	Nos	1	30000/-	30000/-
G-4	Control DB (Services)	Nos	1	23938/-	23938/-
G-5	Control Cable , uPVC Conduit & accessories (Supply & Installation)	Nos	1	11043/-	11043/-
G-6	Communication Cable , Conduit & accessories (Supply & Installation)	Nos	1	12188/-	12188/-
G. OPERATION THEATOR 10-AHU/12					
G-1	Room Temperature & Humidity sensor (Services)	Nos	1	21250/-	21250/-
G-2	Differential Pressure Sensor (Services)	Nos	1	23750/-	23750/-
G-3	DDC Controller (Services)	Nos	1	30000/-	30000/-
G-4	Control DB (Services)	Nos	1	23938/-	23938/-
G-5	Control Cable , uPVC Conduit & accessories (Supply & Installation)	Nos	1	11043/-	11043/-
G-6	Communication Cable , Conduit & accessories (Supply & Installation)	Nos	1	12188/-	12188/-



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G. OPERATION THEATOR 09-AHU/12					
G-1	Room Temperature & Humidity sensor (Services)	Nos	1	21250/-	21250/-
G-2	Differential Pressure Sensor (Services)	Nos	1	23750/-	23750/-
G-3	DDC Controller (Services)	Nos	1	30000/-	30000/-
G-4	Control DB (Services)	Nos	1	23938/-	23938/-
G-5	Control Cable , uPVC Conduit & accessories (Supply & Installation)	Nos	1	11043/-	11043/-
G-6	Communication Cable , Conduit & accessories (Supply & Installation)	Nos	1	12188/-	12188/-
H. Venturi Valves for OT					
H-1	Programming & Testing Commissioning	Nos	12	16250/-	195000/-
H-2	Control Cable , uPVC Conduit & accessories (Supply & Installation)	Nos	12	21425/-	257100/-
H-3	Communication Cable , Conduit & accessories (Supply & Installation)	Nos	12	23750/-	285000/-

TOTAL - 17,361,405/-



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Lowest evaluated bidder M/s Total Construction Pvt. Ltd is approved at cumulative cost of Rs. 17,361,405/- which on our calculation is 17,361,432.

Submitted for review and approval of Honourable Members for the hoisting on the websites of Patients' Aid Foundation & Jinnah Postgraduate Medical Centre, Karachi.

Prof. Tariq Mahmood (T.1)
Head of Radiology, Oncology & Cyberknife
Secretary Supervisory Committee,
Surgical Complex, JPMC, Karachi.

