



WEST BENGAL MEDICAL SERVICES CORPORATION LTD.
(Wholly owned by the Government of West Bengal)
Swasthya Sathi, GN-29, Sector-V, Salt Lake, Kolkata-700 091.

CORRIGENDUM – II
TO
BIDDING DOCUMENTS

FOR

**Planning, Design and Construction of Critical Care Block(CCB) at Diamond Harbour Government
Medical College & Hospital in the State of West Bengal on Turnkey Basis**

Bid Reference No.: WBMSCL/NIT- 374/2022

Dated – 23.08.2022

Sl. No.	Page No.	Section	Clause/ Sl. No.	Current Clause / Provision	Changed Clause / Provision
1	6	Section-1	8(iii)(b) Para 2	N.B. – After N.B.(4), the following clause has been added.	“(4A) In case the eligible project executed by the bidder as mentioned at (b) above, does not include any of the interdisciplinary services such as public health, internal and external electrification, fire-fighting, air conditioning & mechanical ventilation system, STP, external development works, substation, interior works, bidder should submit experience of executing such services under any other contracts separately executed in India”
2	7	Section-1	8.(c)	Minimum Average Annual Turnover of Rs. 17.00 Crore during last 3 (Three) financial years (i.e. 2018-2019, 2019-2020 and 2020-2021), duly certified by the Chartered Accountant with UDIN no.	<p>Minimum Average Annual Turnover of Rs. 17.00 Crore during last 3 (Three) financial years (i.e. 2018-2019, 2019-2020 and 2020-2021), duly certified by the Chartered Accountant with UDIN no.</p> <p>OR,</p> <p>The bidder shall have an Assessed Available Bid Capacity equal to or more than Rs. 17 Crores. The Available Bid Capacity will be calculated as per formula given below:</p> $\text{Assessed Available Bid Capacity} = (A * N * 2.0 - B),$ <p>Where,</p> <p>N= Number of years prescribed for completion of work for which bid is invited.</p> <p>A= Maximum value in respect of engineering similar works executed in any 1 (one) year during the last 5 (five) years (updated to the price level of the year indicated in table below under note) taking into account the completed as well as works in progress.</p> <p>B= Value (updated to the price level of the year indicated in table below under note) of existing commitments, works for which Commencement Date has been declared or ongoing works to be completed during the period of completion of the works for which bid is invited. For sake of clarification, it is mentioned</p>

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					<p>that the works for which LOA has been issued but Commencement Date not declared as on Bid Due Date shall not be considered while calculating value of B. The factor for the year for updation to the price level is indicated as under:</p> <table border="1"> <tr> <th colspan="6">The updation factors to update Turnover and/or “B” value for Bid Capacity</th></tr> <tr> <th>Year</th><th>Year-1 (2020-2021)</th><th>Year-2 (2019-2020)</th><th>Year-3 (2018-2019)</th><th>Year-4 (2017-2018)</th><th>Year-5 (2016-2017)</th></tr> <tr> <td>Updation factor</td><td>1.00</td><td>1.05</td><td>1.10</td><td>1.15</td><td>1.20</td></tr> </table> <p>Participation in the form of joint venture/consortium / special purpose vehicle will not be allowed. The bidder is presently not presently barred/blacklisted by any department, authority or body corporate under the Government of India or any State Government. The other eligibility criteria are described in Clause 1 of Section- 3 (Evaluation and Qualification Criteria), has to be fulfilled.</p> <p>The Bid capacity will be duly certified by the Chartered Accountant with UDIN no.</p>	The updation factors to update Turnover and/or “B” value for Bid Capacity						Year	Year-1 (2020-2021)	Year-2 (2019-2020)	Year-3 (2018-2019)	Year-4 (2017-2018)	Year-5 (2016-2017)	Updation factor	1.00	1.05	1.10	1.15	1.20
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3	22	Section-2	4.1.(b) Para 2	N.B. – After N.B.(4), the following clause has been added.	“(4A) In case the eligible project executed by the bidder as mentioned at (b) above, does not include any of the interdisciplinary services such as public health,																		

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					internal and external electrification, fire-fighting, air conditioning & mechanical ventilation system, STP, external development works, substation, interior works, bidder should submit experience of executing such services under any other contracts separately executed in India”
4	23	Section-2	4.1.(c)	Minimum Average Annual Turnover of Rs. 17.00 Crore during last 3 (Three) financial years (i.e. 2018-2019, 2019-2020 and 2020-2021), duly certified by the Chartered Accountant with UDIN no.	<p>Minimum Average Annual Turnover of Rs. 17.00 Crore during last 3 (Three) financial years (i.e. 2018-2019, 2019-2020 and 2020-2021), duly certified by the Chartered Accountant with UDIN no.</p> <p>OR,</p> <p>The bidder shall have an Assessed Available Bid Capacity equal to or more than Rs. 17 Crores. The Available Bid Capacity will be calculated as per formula given below:</p> <p>Assessed Available Bid Capacity = $(A \times N \times 2.0 - B)$,</p> <p>Where,</p> <p>N= Number of years prescribed for completion of work for which bid is invited.</p> <p>A= Maximum value in respect of engineering similar works executed in any 1 (one) year during the last 5 (five) years (updated to the price level of the year indicated in table below under note) taking into account the completed as well as works in progress.</p> <p>B= Value (updated to the price level of the year indicated in table below under note) of existing commitments, works for which Commencement Date has been declared or ongoing works to be completed during the period of completion of the works for which bid is invited. For sake of clarification, it is mentioned that the works for which LOA has been issued but Commencement Date not declared as on Bid Due Date shall not be considered while calculating value of B.</p>

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5	108	Section-5.3	B.4	EXTERNAL FACADE of Mother & Child Hub building	EXTERNAL FACADE of Critical Care Block Building																		

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6	120	Section-5.4	4.B.1.	Detailed design engineering including architectural design, structural designs & drawings along with complete services of electrical, mechanical, bio-medical etc. – viz; DG set, UPS, Vertical transportation 23 System, water supply, sanitary & plumbing, fire detection, fire alarm & fire fighting, HVAC, networking (IT & Telephone), PA, Common Antenna TV system, Video conference system, AV System, drainage, waste management system, sewage treatment plant, electrical sub-station, landscaping, parking etc. in accordance with detailed Plan & Design approved by EMPLOYER and in accordance with functional requirement of Critical Care Block(CCB).	Detailed design engineering including architectural design, structural designs & drawings along with complete services of electrical, mechanical, bio-medical etc. – viz; DG set, UPS, Vertical transportation 23 System, water supply, sanitary & plumbing, fire detection, fire alarm & fire fighting, HVAC, networking (IT & Telephone), PA, Common Antenna TV system, Video conference system, AV System, drainage, waste management system, sewage treatment plant, electrical sub-station connection , landscaping, parking etc. in accordance with detailed Plan & Design approved by EMPLOYER and in accordance with functional requirement of Critical Care Block(CCB).
7	124	Section-5.4	4. xv. Para 2	Floor to Floor height of Critical Care Block(CCB) building of all Floors including stilt floor to be mentioned, 1. Ground Floor- 4.00 M 2. Other Floors - 3.50 M	Floor to Floor height of Critical Care Block(CCB) building of all Floors to be mentioned, 1. Ground Floor- 4.00 M 2. Other Floors - 3.50 M 3. Plinth Height- 1.00 M from the Campus Road level
8	161	Section-5.5	PART A: CODES AND STANDARD TO ALL SERVICES.	The electrical system of this Critical Care Block (CCB) and other service areas is proposed to be designed on the basis of National Building Code 2016 (NBC 2016) for such a project giving due consideration to aspects of safety, liability and no interruption in the functions of essential services in the mother and child hub .	The electrical system of this Critical Care Block (CCB) and other service areas is proposed to be designed on the basis of National Building Code 2016 (NBC 2016) for such a project giving due consideration to aspects of safety, liability and no interruption in the functions of essential services in the Critical Care Block (CCB) .

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9	164	Section-5.5	PART B: ELECTRICAL SYSTEM (both internal & external).	Preparation of necessary Single line diagram (SLD), Power Distribution etc. of all electrical installation for each floor as well as electrical conduit layout drawing of each room, corridor, Varandah, toilet etc. and as per requirement of the entire Mother and child hub campus.	Preparation of necessary Single line diagram (SLD), Power Distribution etc. of all electrical installation for each floor as well as electrical conduit layout drawing of each room, corridor, Varandah, toilet etc. and as per requirement of the entire Critical Care Block (CCB) campus.
10	164	Section-5.5	I. LOAD CALCULATION INCLUDING LOADS OF MEDICAL EQUIPMENT FOR PREPARATION OF SUBSTATION DESIGN:	a. Calculating electrical loads of all items such as luminaries ,fans ,compound lights, lifts, HVAC, water supply system etc. and medical equipments if required and detailed design of substation incl. Transformer H.T & L.T gear, L.T panel Earthing etc. and details drawing showing actual position of different items earth pits etc. in the drawings. Load calculations of mother and child hub are incorporated in this concept design of Substation according to the approved area of mother and child hub .	Calculating electrical loads of all items such as luminaries ,fans ,compound lights, lifts, HVAC, water supply system etc. and medical equipments if required and detailed design of substation incl. Transformer H.T & L.T gear, L.T panel Earthing etc. and details drawing showing actual position of different items earth pits etc. in the drawings. Load calculations of Critical Care Block (CCB) are incorporated in this concept design of Substation according to the approved area of Critical Care Block (CCB) .
11	165	Section-5.5	II. ELECTRICAL SCHEMES: A. POWER DISTRIBUTION SCHEME:	The normal power supply to the medical college premises shall be available from WBSEDCL at 11 KV and fault level in MVA as per calculation. 11KV new sub-station with necessary requirement as per IE rule shall be constructed. Suitable capacity of HT cable shall be used to connect to. Transformers as per established loads to step down the voltage level at 433 V. The Supply Authority's power supply cable shall enter to the substation building through adequate size where necessary	Deleted

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				with long radius bend and inspection chambers of suitable size at regular interval as per requirement.	
12	165	Section-5.5	II. ELECTRICAL SCHEMES: A. POWER DISTRIBUTION SCHEME:	<p><u>The following equipments shall be accommodating in the substation building and main building of the Mother and Child Hub:</u></p> <ol style="list-style-type: none"> 1) Supplier's Metering Panel. 2) 11 KV Distribution board with required metering and protection systems. 3) Minimum 2 (two) nos. 11/0.433 KV Dry type Transformer of required capacity for each Substation. 4) Minimum 2 (two) nos. DG as per required capacity in KVA for each near main building DG set with auxiliaries for supply of emergency power in case of main power failure. 5) Battery and charger for DG sets and UPS power for HT Panel control and protection circuit. 6) APFC Panel as per IE Rule. 7) Main L.T. Panel for catering Main power and Emergency Power to different areas of the building. 8) Dedicated UPS system of requisite capacity with 30 min. backup time to cater backup power for Light Load, Critical 	<p><u>The following equipments shall be accommodating for providing power to Critical Care Building and related facility:</u></p> <ol style="list-style-type: none"> 1) The Main power supply shall be taken from the existing substation of Medical College or Super speciality building and should be drawing through RCC Trench with removable type RCC cover. 2) Necessary medication and arrangements at Supply end panel shall be under the scope of Bidder/Agency. 3) Minimum 2 (two) nos. DG as per required capacity in KVA for each near main building DG set with auxiliaries for supply of emergency power in case of main power failure. 4) Battery and charger for DG sets and UPS power for HT Panel control and protection circuit. 5) APFC Panel as per IE Rule. 6) Main L.T. Panel for catering Main power and Emergency Power to different areas of the building. 7) Dedicated UPS system of requisite capacity with 60 min. backup time to cater backup power for Light Load, Critical Control and Circuit Load, ICU, SNCU, HDU, NICU, PICU, Operation Theatre (OT) and other critical areas. 8) Dedicated UPS system of requisite capacity with 60 min. backup time to cater backup power for HT and LT Panel metering and control circuit power. 9) Dedicated Ventilation system with timer control at

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				<p>Control and Circuit Load, ICU, SNCU, HDU, NICU, PICU, Operation Theatre (OT) and other critical areas.</p> <p>9) Dedicated UPS system of requisite capacity with 30 min. backup time to cater backup power for HT and LT Panel metering and control circuit power.</p> <p>10) Dedicated Ventilation system with timer control at group toilets and personal toilets.</p> <p>The Transformers shall be protected on the HT side of the consumer, by 11 KV Circuit Breakers i.e. VCB (Vacuum Circuit Breaker) with necessary metering and protection.</p>	<p>group toilets and personal toilets.</p> <p>The Transformers shall be protected on the HT side of the consumer, by 11 KV Circuit Breakers i.e. VCB (Vacuum Circuit Breaker) with necessary metering and protection.</p>
13	167	Section-5.5	SWITCHES AND SOCKETS:	<p>All switches and sockets shall be Modular type to facilitate compatibility of the modern trends. Industrial socket will also be provided where required. Proposed minimum nos. of Electrical small power socket requirements for Mother and child hub. The nos. of switches and sockets may be changed as per employers' requirement.</p>	<p>All switches and sockets shall be Modular type to facilitate compatibility of the modern trends. Industrial socket will also be provided where required. Proposed minimum nos. of Electrical small power socket requirements for Critical Care Block (CCB). The nos. of switches and sockets may be changed as per employers' requirement.</p>
14	167	Section-5.5	III. DETAILED ELECTRICAL AND MECHANICAL	<p>This specification defines the basic guidelines to develop a suitable electrical system as necessary for the Mother and child hub. All data required in this regard</p>	<p>This specification defines the basic guidelines to develop a suitable electrical system as necessary for the Critical Care Block (CCB). All data required in this regard shall be taken into consideration to develop</p>

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			ENGINEERING SERVICES:	shall be taken into consideration to develop a detailed engineering of the system. Compliance with these specifications and/or approval of any	a detailed engineering of the system. Compliance with these specifications and/or approval of any
15	185	Section-5.5	d) RCC Trench for Cable Laying:	Underground cable laying from existing Sub-station Building to Mother and Child Hub Building should be passing through the RCC Cable Trench with removable RCC cover slab considering the load of vehicles and other. RCC Cable trench should be designed as per latest IS code. The layout of the trench shall be prepared in coordination with other parallel underground utilities. The details of the design shall be approved from the Employer before execution of the work.	Underground cable laying from existing Sub-station Building to Critical Care Block (CCB) should be passing through the RCC Cable Trench with removable RCC cover slab considering the load of vehicles and other. RCC Cable trench should be designed as per latest IS code. The layout of the trench shall be prepared in coordination with other parallel underground utilities. The details of the design shall be approved from the Employer before execution of the work.
16	219	Section-5.5	PART B: ELECTRICAL SYSTEM (both internal & external).	9.9 VENTILATION OF SERVICES AREAS LIKE, DG ROOM, SUBSTATION ETC.	9.9 VENTILATION OF SERVICES AREAS LIKE, DG ROOM, ELECTRICAL ROOM ETC.
17	234	Section-5.5	PART B: ELECTRICAL SYSTEM (both internal & external). b) DRAWINGS i) Shop Drawings	The shop drawings shall indicate all setting out details and physical dimensions of all components with wiring and cable details including system operating write up in the system i.e. 11 KV Panel Board , Control and Relay Panel Package Substation, D.G.'s, PCC's, MCC's, cable schedule and routes, manhole trap and fixing details as well as for conduit indicating run and size of wire/cables, outlet/pull/junction boxes etc.	The shop drawings shall indicate all setting out details and physical dimensions of all components with wiring and cable details including system operating write up in the system i.e. HT and LT Electrical Panel as applicable , Control and Relay Panel Package, Substation D.G.'s, PCC's, MCC's, cable schedule and routes, manhole trap and fixing details as well as for conduit indicating run and size of wire/cables, outlet/pull/junction boxes, Lighting Layout, Power etc.

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18	237	Section-5.5	PART C: APPROVED MAKE: C.2: TABLE: List of Approved List:	3.2 Air Circuit Breaker (ACB)	Schneider / L&T / Siemens/ ABB / Legrand / C&S/ Havells
19	237	Section-5.5	PART C: APPROVED MAKE:	3.3 Moulded Case Circuit Breaker (MCCB)	Schneider / L&T / Siemens/ ABB / Legrand / C&S /Havells
20	237	Section-5.5	C.2: TABLE: List of Approved List:	3.4 Motor Protection Circuit Breaker (MPCB)	Schneider / L&T / Siemens/ ABB / Legrand / Havells
21	238	Section-5.5	PART C: APPROVED MAKE:	6.3 Distribution Board	L&T / Siemens / Schneider / Legrand/ C&S/ Havells
22	239	Section-5.5	C.2: TABLE: List of Approved List:	13.2. Scroll / Screw Chilling Machine	Blue Star/ Carrier / Daikin / Hitachi / Mitsubishi / Kirloskar
23	340	Section-5.7	Note-I	Activity Sl. No.: 34 SITC of HT, LT, APFC Panels,Transformer, HT Earthing and Internal Electrification, Power Augmentation, Connection between existing Sub-station of SSH Building to Mother & Child Hub Building, Sub-station earthing etc.	Activity Sl. No.: 34 SITC of HT, LT, APFC Panels,Transformer, HT Earthing and Internal Electrification, Power Augmentation, Connection between existing Sub-station of SSH Building to Critical Care Block Building, Sub-station earthing etc.

**Sd/-
General Manager**