

BEML LIMITED, BANGALORE COMPLEX

TENDER Ref: 6300037109	Date:	14.02.2022
	Period of Contract:	45 DAYS
	EMD - Rs. :	11,000/-

Sub:- Architectural & Design consultancy services for " Proposed construction of RCC Underground Sump and RCC Overhead Water Tank at BEML Township and conversion of the RCC Lunch Hall building into BEML Medical Centre and Extension at First floor, in BEML Limited Bangalore complex, Bangalore

Bill of Quantities

Sl No	Description of work	Unit	Qty.	Rate/ Unit in fig. and in works Rs.	Amount Rs.
A.	RCC Overhead water tank (1.00Lakh Ltrs. Capacity)				
1	Preparation of 2 options of Architectural elevation /plan/ crosssectional drawings in 2D of the proposed OHT with staging height up to 30.00Mtrs height, with 1.00Lakh Ltrs capacity,Pump house with office at ground level for discussion and selection of one option by BEML. The selected one option shall be used for detailed structural design and execution.	Job	1		
2	Conducting Soil investigation of the proposed site (for both OHT and UG sump) by a reputed agency in concurrence with BEML Limited and submission of soil test report to BEML.	Job	1		
3	Structural design: i) Complete Structural design of the RCC overhead water tank as per IS considering the loads (including wind load for OHT, seismic load as applicable in the area) , load calculations & analysis and submission of the report to BEML with 3rd party vetting for design. ii) Detailed good for construction drawings in 2D and 3D format including plan, elevation, sections, with structural, bar bending schedule for reinforcement, plumbing like inlet lines/delivery line/cleaning line/ vent line with all accessories, electrical details etc., and submission to BEML. iii) Preparation of detailed estimate, BOQ with detailed specifications based on latest MES SSR and Present Market rates, indicating the brands/make of materials. On scrutiny of the detailed estimate, any changes/suggestions/additions/deletions to be incorporated and revised details / estimate to be submitted.	Job	1		
B.	RCC Under Ground Sump (5.00 Lakh Ltrs capacity)				
4	Structural design & Submission of BOQ & drawings for tendering: i) Structural design as per IS considering the load on structure, load calculations & analysis and submission of the report to BEML with 3rd party vetting for design. ii) Detailed good for construction drawings in 2D format including plan, elevation, sections, with structural, bar bending schedule for reinforcement, water inlet, line outlet line details etc., and submission to BEML. iii) Preparation of detailed estimate, BOQ with detailed specifications based on latest MES SSR and Present Market rates, indicating the brands/make of materials. On scrutiny of the detailed estimate, any changes/suggestions/additions/deletions to be incorporated and revised details / estimate to be submitted.	Job	1		

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C	Renovation the existing Lunch hall into BEML OPD & proposed construction of First floor for Medical centre.				
5	<p>i) Preparation of 2 options of Architectural elevation /plan/ crossectional drawings/ interiors/ in 2D interiors/ furniture/ finishes/ etc., for Conversion / modifications and renovation of the existing ground floor RCC building for provision of Medical centre as per BEML requirements, for discussion and selection of one option by BEML, in 2D. Note:- The quoted rate includes the Assessment of the Structural stability of the existing RCC building and suitability for construction of First Floor by a reputed structural consultant in concurrence with BEML Limited and submission of report to BEML.</p> <p>ii) Preparation of 2 options of Architectural elevation /plan/ crossectional drawings/ interiors/ in 2D interiors/ furniture/ finishes/ etc., of the proposed First Floor for provision of Medical centre as per BEML requirements, for discussion and approval of BEML.</p> <p>iii) The selected one option for both ground floor and first floor shall be used for detailed design and execution.</p>	Job	1		
6	<p>Structural design:</p> <p>i) Complete Structural design of the First floor as per IS considering the loads calculations & analysis and submission of the report to BEML with 3rd party vetting for design.</p> <p>ii) Detailed good for construction drawings in 2D and 3D format including plan, elevation, sections, with structural, bar bending schedule for reinforcement, water supply & plumbing details, electrical details interiors, etc., and submission to BEML as per requirement.</p> <p>iii) Preparation of detailed estimate, BOQ with detailed specifications based on latest MES SSR and Present Market rates, indicating the brands/make of materials. On scrutiny of the detailed estimate, any changes/suggestions/additions/deletions to be incorporated and revised details / estimate to be submitted.</p>	Job	1		

Sl No	Description of work	Unit	Qty.	Rate/ Unit in fig. and in works Rs.	Amount Rs.
D	Site visits, execution and billing				
7	Site Visits during execution: i) Making necessary changes, if required as per site conditions in the execution drawings during work progress and site visits during execution of work by a qualified & experienced structural/civil engineer till completion of works and handing over the work site to BEML. (Note: The minimum total number of visits during execution of work has been considered as 10 visits for all THREE activities, however, the consultant/Engineer is required to visit the work site for any technical clarifications during execution as and when intimated by BEML till completion of the entire works). ii) Submission of As Built Drawings (Hard & soft copies)	Job	1		
	Total Value of work excluding GST/Taxes (Rs.)			Rs.	
	GST/ Taxes			Rs.	
	Total value of work inclusive of Taxes			Rs.	

Note: The time required for the above construction activities, viz., Overhead water tank, Underground sump, Medical centre at First floor of existng building is tentatively considered as 04 months.

(Total Amount in words Rupees.....)