

Minutes of Pre bid meeting held on 05.04.2019 at 11.00 am at HITES RO Chennai

Design and Construction of New Boundary Wall with Pre-cast Technology for proposed AIIMS - Madurai, Tamil Nadu

Technical Queries and Clarification						
Sl. No.	Page No.	Clause No.	Description	As per Tender Document	Pre-bid Queries by Bidders	Reply By HITES
1	29	Volume I - C - Scope of work point no. 6 and 7	Soil Investigation	The tenderer shall get the detailed soil investigation done as per relevant IS code, NBC 2015 etc. as applicable through the soil consultant having professional experience of 15 years. Tenderer may satisfy himself / themselves by conducting pre-soil tests if he / they so requires. However an indicative soil investigation report is uploaded for general guideline of the Bidders, although this will not have any bearing on the quoted rates by the bidders.	Soil Investigation Report is not enclosed in the Tender Document. This is required for preparing the Design of Foundation	Indicative Soil Investigation details is uploaded alongwith amendment. - Annexure-A
2			Tie / Plinth beam		Please clarify whether any Tie / Plinth beam is required	As per the duly vetted design to be adopted by the bidder
3			Site Plan, Layout, Contour		It was requested to issue the Site Plan, Site Layout, Contour and Indicative Soil investigation report	Refer to the annexure - B
4	28	Volume I Section-III C Scope of Work	Architectural drawing	The indicative architectural drawings for the Design & Construction of compound wall for proposed AIIMS at Thopur, Madurai for about 220 acres of land with PRECAST TECHNOLOGY are provided along with the tender documents	Architectural drawing showing the Elevation including the Logo is required	Refer to the annexure-C. AIIMS logo shall be of circular shape of 1m dia at centre of all the precast panel at external side
5	22 and 30	Volume I - Clause 2 and in C Scope of work point no.14	Super structure for Compound wall - Ground level	The general specification for the wall shall be "Boundary Wall should be 2.4 Mts. Above corresponding ground level at all locations. In Scope of work it is mentioned as The final plinth level / Ground level above COMPOUND WALL to be constructed will be decided soon after start of work at site. Changes, if any, in the plinth height / Ground level above COMPOUND WALL to be constructed would not affect the agreed rate and no claim on this account shall be entertained	What will be Ground level or Plinth level	It will be varying as per site contour. It is not common for the entire length of Boundary wall. The top portion may vary with respect to the corresponding ground level for the indicated height of Boundary wall. The bidder has to visit the site in person before quoting and shall consider as per the contour and site condition. Refer to the contour drawing attached as Annexure - B

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6	22 and 23	Volume I - Section-III Clause 2	Boundary wall Panel size	The general specification for the wall shall be "Boundary Wall should be 2.4 Mts. Above corresponding ground level at all locations and the panel sizes shall be minimum width of 3.0Mtrs with a minimum thickness of 0.10mtrs.	How many panels are permitted for erection in a single span?	As per tender document and design approved by HITES Engineer in charge.
7	7	Volume I - Section I 1.2.5.	Tender fees	Tender Processing Fee (Non-refundable) is Rs.10,000 only (inclusive GST)	Tender Processing Fee (Non-refundable) Rs.10,000. On whose name the DD to be taken	In the form of Demand draft in the name of HLL Infra Tech Services Limited payable at Thiruvananthapuram.
8	26	Volume I Clause 13 Precast constructions	Precast at Site	The precast concrete elements shall be manufactures at an established manufacturing facility in a factory with a quality controlled environment where a fully equipped quality laboratory is made available	We have planned for placing Mini Batching at Project site itself for the preparation of Concrete. Pre-cast yard shall be prepared for casting the pre-cast elements. Necessary Testing lab shall be arranged at site itself for ensuring the quality control of concrete	The precast elements from established manufacturing facility with quality controlled environment is preferred. However, in case of manufacturing at site, then the parameters are provided in Vol IV.
9	23	Volume I - Section-III Clause B.I.2.	Minimum Cement content	All cast-in-situ concrete to be used at site shall be Design Mix concrete M40 with minimum cement content of 370kg/cum and durability requirement would also be considered for adoption of proper design for Foundation work or as specified in Item	M-40 concrete to be used as per specification. Minimum cement content given is 370 kg/Cu.m. Marginal increase may be required in cement which may be considered for payment after approval of the Design mix	Extra rate shall not be paid separately.
10			Usage of Fly ash		Can we use Fly ash in the Mix design? Kindly confirm	Subject to the Design, relevant IS codes without affecting the tender conditions & technical specifications, required strength and quality and to be cleared by the <u>vetting agency</u> .
11			Self compacting Concreting		Can we use M-40 self-compacting design mix? In that case we can provide necessary <u>approved admixtures</u>	as per sl.no.10.
12	26	Volume I - Section-III Clause 13.e.4	Cement Grade	Cement - OPC 53 grade	Can we use 43 Grade cement in place of 53 Grade?	As per tender document.
13			Curing compound		Can we use approved curing compound?	as per sl.no.10.

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14	30	Volume II Clause 10B.1i and ii	Secured Advance on Non-Perishable Material and Mobilization Advance	Not Applicable	Is there any possibility of giving Mobilization advance of around 10% as per CPWD norms?	As per tender document.
15			Tree cutting		If Tree cutting is involved the Permit shall be obtained by Client	As per tender document. The scope lies with the successful tenderer.
16			Filling		Is there any filling available in the proposed site? Kindly clarify	The compound wall to be executed as per the specification and the approved design and drawings. Backfilling after excavation to be done as required as per site condition and as per direction of Engineer- in-charge at site. No extra shall be payable in this regard
17			Retaining Wall		Whether any retaining wall will be required with respect to profile / level difference in existing ground level	The design should match with the site conditions.
18	8 and 9	Volume I Section I Clause 1.4.1.j.	Direct / indirect joint ventures (JV)	Direct / indirect Joint Ventures (JV) / Consortium of any kind are not permitted	Requested to kindly accept Joint Venture consortium to participate in the project or the technical tie up from qualified companies that "If work is awarded to our firm they will provide technical knowhow to execute the job effectively	As per tender document. JV or Consortium is not allowed
19			Eligibility Criteria		We are doing private project - so Eligibility criteria is the problem	Eligibility criteria shall be as per tender document
20	22	Volume I - Section-III Clause B.1.	Footing / Foundation type	Foundation shall be a suitable and safe type of foundation as per the recommendation / analysis report of soil investigation in order to take the load of super structure safely	Could you please clarify on the type of footing required i.e. (Concentric Footing or Eccentric footing) w.r.t. the column and face of the boundary wall	As per sl.no.2. All structural elements to be within the site limit.
21	24	Volume I Section-III Clause B.II.3	Buttressing in the external wall	Buttressing in the external walls shall be provided as external wall elements are not fully restrained on both sides by floor panels and that external wall panel connections are the weakest points in a precast panel structure	The purpose of Buttressing in external wall is not understandable as external wall (precast) is itself a self supporting structure and need not require additional Buttress, kindly clarify	As per sl.no.2

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22	25 and 26	Volume I - Section-III A.	Test for Components / Structure	Test load on the component, duration of applying the test load, maximum deflection, recovery after removal of the test load & test observations shall satisfy the requirements under clause 10.2 of IS 15916	Query raised that the only test would be possible are the Non Destructive Tests (ex. Rebound Hammer, Ultra Sonic Pulse Velocity etc), as it is quite impossible to test the components for failure at site or at laboratory. Please conclude regarding the type of testing required.	As per tender document. Any test shall be approved by HITES EIC
23	24	Volume I - Section-III Clause B.1. 4 and 5	Reinforcement Steel	High yield strength deformed bars or equivalent TMT bars of grade Fe 500 D or Fe 550 D confirming to IS 1786 (Latest Version) shall only be used in all RCC work	80kg/cu.m steel for wall panel or average including column & footing. Any specific brands of reinforcement steel to be used	As per tender document Volume-I; Section III- B.2 and Sl. No.2. it is only for Superstructure for compound wall. For Brand - Refer SCC - Vol IV
24	24	Volume I - Section-III Clause B.I. 7,8 & 9	Design controls	Resistance to horizontal loading shall be provided by having moment resisting frames and / or shear walls	Provision of moment resisting frames / shear walls to be clarified. PT 7,8 & 9 not applicable for boundary walls	As per sl.no.2
25	24,25 and 26	Volume I - Section-III Clause B.II. 2 to 9, 12 13.l,m,n & o	Design considerations for precast construction	Resistance to horizontal loading shall be provided by having moment resisting frames and / or shear walls, Buttrassing in the external walls	B.II PT 2-9,PT-12, PT-13l,m.n,0 NOT APPLICABLE FOR BOUNDARY WALL	As per sl.no.2
26	1,2 & 7	Volume I - Press Notice, Notice Inviting Tender and Notice Inviting Bid- Section I 1.4	Time Period	The time is allowed for carrying out the work is mentioned as 6 months only. Whereas in page no.30, Section - III. C. Scope of work, point no.16, it is mentioned as "Out of 8 months as stipulated period, the time limit for Planning,designing,vetting and obtaining all necessary approvals shall be maximum 2 months. The remaining period i.e. 6 months will be for completion of entire work fir for handing over".	Whether the time Period is 6 months or 8 months	Time period shall be 8 months as per Volume - I; Section - III- C. Scope of work, point no.16
27			GST		Applicable GST % of this project is 12% or 18% please confirm	Applicable GST for Government projects to be adopted.

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28	23	Volume I - Section - III Scope of Work Clause 3	Concertina wire	Providing and fixing concertina coil fencing with punched tape concertina coil 450mm dia, having 50nos rounds per 6 meter length, spring core wire (2.5m thick) of high tensile strength of 165kg/sq.mm with tape (0.52m thick) and fixing the same with existing Y - shaped angle iron placed 2m apart and with 6 horizontal R.B.T. (Reinforced Barbed Tape) wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts, all complete	Please specify the type of concertina coil required. Technical specifications such the GI coating thickness etc. We earlier used a ZAL coated Concertina coil that is superior compared to simple GI coating	GI/ZAL coating is allowed. The proposal submitted by the contractor shall be approved by the HITES EIC.
29			Cement and Steel		The approved make of Cement and Steel not mentioned in the tender documents. Can we use steel from secondary steel manufacturers?	Refer SCC. Volume IV attached
30			Materials Royalty		Royalty charges deductions (for aggregates) will be made by HLL in our RA bills directly and paid directly by HLL to the concerned authorities OR should we the contractor pay to the concerned state authorities the royalty charges? Please clarify	All taxes & Government charges to be borne and paid by the tenderer
31	22 and 23	Volume I - Section-III Clause 2	Boundary wall Panel size	The general specification for the wall shall be "Boundary Wall should be 2.4 Mts. Above corresponding ground level at all locations and the panel sizes shall be minimum width of 3.0Mtrs with a minimum thickness of 0.10mtrs.	The minimum width of the panel is mentioned as 3-meters? Does, this mean we can use larger width panels? This will in-turn increase the column-to-column spacing also. Please clarify.	The design to satisfy all technical criteria and approved by the HITES EIC and to be cleared by the vetting agency.
32	42	Volume II - 19H	Labour Camp	The huts and required other facilities shall be provided by the bidder. However the location is not mentioned	Whether Labour camp can be made inside the site premises	NO labour camp is allowed inside the campus.
33	22	Volume I - Section-III Clause 2	Super structure for Compound wall - Street light pole detail	Suitable arrangements for fixing street light pole and also provision for concealed wiring for street lights and cable wiring for CCTV camera to be fixed at a later date should be provided on the entire length of the compound wall	Details and size of Street light Pole is required to be furnished in order to make the provision during pre casting	Provision for Decorative compound wall mounted lighting may be included. The contractor shall submit the proposal and obtain approval from HITES Engineer-in-charge.

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34	23	Volume I - Section - III Scope of Work Clause 3	Concertina wire	Providing and fixing concertina coil fencing with punched tape concertina coil 450mm dia, having 50nos rounds per 6 meter length, spring core wire (2.5m thick) of high tensile strength of 165kg/sq.mm with tape (0.52m thick) and fixing the same with existing and with 6 horizontal R.B.T. (Reinforced Barbed Tape) wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts, all complete	The spacing of Angles for Concertina is mentioned as 2mtr. intervals. When the intervals of RCC Column is around 3mtr. Whether the same spacing can be considered	As per the tender document and approved design.
35			Nallas		Whether any Nallas is crossing or there	Contour plan is attached as Annexure B. However, the bidders shall visit the site before quoting and satisfy himself / themselves
36			IOCL Pipe line Crossing		Details of IOCL Pipe line crossing and Invert level is required as the new boundary wall is having crossing over this in order to take precautions	The successful Bidder shall coordinate with Executing agency and all concerned authorities to obtain the required details before execution of work in that location such that progress is not affected
37			Water Pipe line crossing			
38			Bid submission		Submission of Bids physically not allowed, it should be manually. Query raised to clarify	Sealed Bids shall be manually submitted to CE (Design), HLL Infra Tech Services Limited, Golden Jubilee block, HLL Bhavan, Poojappura PO, Thiruvananthapuram-12
39	26	Volume I Clause 13 Precast constructions	Site Mix / Ajaks	The precast concrete elements shall be manufactured at an established manufacturing facility in a factory with a quality controlled environment where a fully equipped quality laboratory is made available	Whether Site Mix will be allowed for the entire compound wall work	as per sl.no.8
40	23	Volume I - Section - III Scope of Work Clause 3	Logo of Client	Logo of Client shall be provided on outer side all the panels as per approved pattern	Whether the Logo which is mentioned in the specification is need to be provided in all Panels	AIIMS logo shall be of circular shape of 1m dia at centre of all the precast panel at external side
41	14 of Volume I	2.3.5.d.	Alternate Proposal	Bidders shall submit offers that comply with the requirement of the Tender, as indicated in the drawing and specifications. Alternatives will not be considered	Clarification is required for Alternative Proposal	As per tender document.

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42	25	Volume II Clause 7	Payment on Intermedaite Certificate	10% On Submission and approval of Design of Foundation and Compound wall, 25% on Completion of site clearance, levelling and foundation on prorata bais, 45% on Supply, erection and completion of Compound wall as per the Scope of work on prorata basis, 20% on Completion and handing over of work	Query raised if the type foundation is also precast which is part of superstructure, the payment of 25% and 45% for the foundation and Compound will be on what stage	Payment on Intermediate bills will be on the pro rata basis as per the approval of Engineer-in-charge
43	26	Volume I Clause 13.d	Pretensioning Specifications	The pre-tensioning of the precast elements, if resorted to, shall be accordance with the applicable standards and the pre-tensioning details of each typical element shall be submitted in advance	Whether Hollow section will be allowed	As per tender document.

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44	25	Volume I Clause B II point no 8.2	Fire rating	Precast Components of the structure shall be designed for fire rating of two hours. Fire rating of joints of the components shall be higher or atleast equal to the fire rating of connecting members	Query raised whether this clause is required / applicable for Compound wall also	As per tender document
45	14	Volume I Section-II Clausw 2.3.5.c	Bid submission	Bidders shall submit their Bids manually. The contents of the Technical and Financial packages are as mentioned hereinafetr i.e. Clause 2.3.6.	Submission of Bids physically not allowed, it should be manually. Query raised to clarify	Bids shall be manually submitted to CE (Design), HLL Infra Tech Services Limited, Golden Jubilee block, HLL Bhavan, Poojappura PO, Thiruvananthapuram-12
46			Provision of Innovative equipments		Query raised to consider the innovative surveillance camers as it is an International Standards	Suitable provision may be given as per tender specifications.
47			Admixtures		Query raised whether usage of admixture in the concrete will be allowed	as per sl.no.10.
48	22	Volume I - Section-III Clause 2	Super structure for Compound wall - Street light pole detail	Suitable arrangements for fixing street light pole and also provision for concealed wiring for street lights and cable wiring for CCTV camera to be fixed at a later date should be provided on the entire length of the compound wall	Query raised whether the street light pole will be installed on the Compound wall. If so requested to furnish the details of the Street light pole about its sizes and location at where it will be installed	Provision for Decorative compound wall mounted lighting may be included. The contractor shall submit the proposal and obtain approval from HITES Engineer-in-charge.
49	26	Volume I - Section-III Clause 13.c.	Submission of Design and Drawings	All the design and drawings should be approved from IIT Madras / Anna University, Chennai or any other government or reputed autonomous institutions. The vetting process shall be carried out by the Executing agency	Query raised whether the Vetting Process is after award of work only	Yes. Vetting shall be done by third party appointed by Executing agency.
50	7	Volume I - Section I 1.2.9	Submission of Bids	Last date and time of submission of Bids is mentioned as 16.04.2019 at 15.00 hrs	Query raised whether the Extension of Time will be given as time is required to work out and prepare from the date of amendment	Refer amendment-02
51			Payment method		Requested about the method of payment. Whether it will be directly by MoHFW or through HITES	All the payment shall be made by HITES.

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52			Submission of Interim bills		Requested to inform about the venue of submission of the interim bill. Whether it is at Site or to HITES Office	All interim bills in the prescribed format and with necessary supporting documents to be submitted to the authorized representative of HITES Engineer-in-charge at Site and as per the contract clauses and conditions of Tender document.
53	2	Volume I NIT point no.2	Submission of design alongwith Tender Bid	The bidder shall submit the design brief of the compound wall using precast technology and the methodology of execution of work	Query raised whether the Design has to be submitted along with the Tender Bid	The bidder should submit the design brief and methodology along with the technical bid document.
54	8	Volume I - Section I - 1.4.1.c	Similar Works	Similar work shall mean Construction of RCC framed structure / compound wall using PRECAST TECHNOLOGY	Query raised RCC framed structure means whether bridges will also be considered	RCC framed structure / compound wall using PRECAST TECHNOLOGY will be considered Relevant clauses and IS codes applicable for the construction of precast structure will also be considered.
55			Bid security		Regards Bid security Bank Guarantee - We need your remittance bank's Name, Branch, IFSC Code please.	Name of Beneficiary : HLL Infra Tech Services Ltd. Bank : SBI, Commercial Branch, Thycaud, Trivandrum A/c No. : 38160968975 IFS Code : SBIN0004350
GENERAL INFORMATION TO THE BIDDERS						
Sl. No.	Page No.	Clause No.	Description	As per Tender Document	Instructions to bidders	
56		Vol 2- GCC Clause 31A, 32 & 34 (page 49, 50 and 51)		Departmental Water Supply if available, Alternate Water arrangements & Hire of Plant & Machinery.	The bidder shall be responsible for arranging and maintaining at its own cost all materials, tools & plants, water, electricity, access, facilities for workers and all other services required for executing the work.	
57			General	Depth of precast wall panel below ground level	The height of precast boundary wall above existing ground level at all locations is 2.4m. A minimum depth of precast wall panel of 0.60m below the existing ground level at all locations shall be considered for the entire length of boundary wall. Refer indicative architectural drawing Annexure C.	

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58	page no.96, 97	Schedule F Clause 36 (i) Section 6 of GCC		Minimum Requirement of Technical Representative is given as P.M. (C) - 1no, P.E. (C) - 1no and P.E. (E) - 1no. Total only 3 Representative	<p><u>Revised Technical Representative to be deployed at site.</u></p> <ol style="list-style-type: none"> 1. PM - Qualification and experience same as PM in schedule F, clause 36, section-6 of GCC, sl. no. 1 2. Quality Engineer - qualification and experience same as PE(C)/QE in schedule F, clause 36, section-6 of GCC, sl. no. 2 3. Mechanical Engineer(Plant & Machinery)-1 no (qualification and experience same as PE(E) in schedule F, clause 36, section-6 of GCC, sl. no. 3.) 4. Site Engineer(C) with HSE experience- 1 no (Graduate Engineer with min 2 years experience or Diploma Engineer with min 4 years experience) 5. Surveyor - 1 no (Graduate Engineer with min 5 years experience or Diploma Engineer with min 10 years experience - should have handled survey works in relevant projects); 	