

Construction of Hadron treatment and Support Facility at ACTREC Campus, Tata Memorial Centre on Design Build Basis

Minutes of the Technical Presentation held at 11.30 AM on 06.06.2016 at TATA MEMORIAL HOSPITAL, PAREL, MUMBAI

MEMBERS PRESENT

1	Dr. A K D'cruz, Director , TMH	14	Mr. Solomon Fernandez, PCE, HLL
2	Dr. S K Shrivastava , Prof & Head, Radiation Oncology	15	Mr. P.Rathnachalam, HLL
3	Dr. Saritha Khobrekar, Medical Superintendent, TMH	16	Mr. Dinesh Kumar, HLL
4	Dr. Siddhartha S Laskar , Prof . & Radiation Oncologist	17	Mr. Rakesh Pathak, M/s. IBA
5	Dr.D.D. Deshpande, Head , Medical Physics	18	Team Members from M/s. SPCL
6	Mr.G.S.Dhanoa , Chief Engineer ,TMC		
7	Mr.M.S. Mangrulkar, Head IT, TMC		
8	Mr. M H Raut, Bio Medical Engineer		
9	Mr. M.K.Nate, Engineer Civil , TMH		
10	Mr.R.B. Kapse, Engineer Electrical , TMH		
11	Mr. K K Karle , Engineer Mech		
12	Mr. B Chandra, Engineer Civil , ACTREC		
13	Mr. Manoj Chavan , Tech. Officer , I T dept.		

The points discussed based on the technical presentation given by M/s. SPCL are as follows:

1	It was informed to the bidder that all approvals from statutory authorities (except AERB clearance and tree cutting permission) will be in bidder's scope only.
2	The North direction marked on the final drawing provided by HLL should be adopted.
3	SPCL informed that the number and type of elevators needs to be revised from HLL's concept plan. HLL informed that the proposed structure has only 2 floors and there is no need for the increasing the numbers unless there is a specific statutory requirement.
4	TMC informed that they shall provide room data sheet based on which the sizes and facilities inside rooms to be designed.
5	TMC informed that skylight shall be considered internally wherever feasible to facilitate natural lighting.
6	Possibility of using Corian (artificial granite) instead of granite may be considered in the proposal.
7	HLL informed that the Rain Water Harvesting system shall be considered as per statutory norms.
8	HLL informed that WTP is not required
9	Since there is no requirement for hot water, solar water heating system is not required.
10	It was clarified by HLL that the building shall be atleast 3 star GRIHA compliant but GRIHA certification is not mandatory.
11	HLL informed that since one more bidder is involved, the details and features are to be brought into a common platform and shared between each other. However SPCL may quote seperately for special feature / latest technology considered in their offer, in addition to those mentioned in the RPF which need not be shared with their competitors.
12	For equipment cooling, separate piping for cooling water distribution to be provided by the bidder. The quality of water should be as per standards.
13	A combination of EWC/ IWC and disabled & children friendly fittings to be considered in toilets.

14	In storage shelves / cupboards, laminates shall be in both internal and external sides.
15	Following points were noted regarding MEP services in the proposed project.
a	<u>Electrical</u> 33kv supply shall be tapped from existing 33kv sub station available in ACTREC campus. 2 nos of 33kV/415 volts , 1.25MVA transformers, 33kV panels etc are in the scope of work.
b	<u>Signage</u> Standard signages including main logo and fire fighting signages are included in the scope of EPC Developer.
c	<u>Nurse call system</u> NCS & Queue Management system also to be included as per the requirement of TMC. EPC developer has to include the same in their offer. The rate for Queue Management system to be quoted separately.
d	<u>HVAC</u> 375 TR capacity air cooled chiller has been considered in the design which include requirement for hadron cooling system. Exhausted air doesn't require treatment as confirmed by the client. In line exhaust fan are to be considered for toilets.
e	Chillers (3 duty + one standby) shall be located in the terrace area of the building. HEPA filters are not required in the system (as confirmed by TMC) Axial flow fans are to be considered for electrical/PHE/transformer/STP control rooms smoke extract system in corridor of hadron area is required. Fans shall be fire rated type.
f	<u>PHE</u> WC for disabled people has been considered for the project(both EWC and IWC). Bidder shall consider the same in their scope of work.
g	<u>Fire alarm system</u> Addressable type fire alarm system is considered for the project as reported by M/s. SPCL.HLL informed that a repeater panel is to be considered in the guard room as per the client's requirement, which has to be included in EPC developer's offer.
h	<u>Necessity of optical fiber cabling</u> 4 rooms in support area need to be networked with server room by using optical fiber cabling
i	<u>Access control system</u> 3 nos of doors connecting hadron and front office shall be provided with bio metric(finger) access control system. as per client's requirement. HLL informed that a separate access control system for hadron area as per IBD document has to be provided as a part of the work.
j	<u>CCTV system-</u> shall be IP based covering support facility only. HLL informed that for gantry area, separate CCTV system has to be provided as per IBD document
k	<u>Fire fighting system</u> SPCL stated that FPS will be provided as per local regulations(CIDCO's norms) which include down comer system for support facility. HLL stated that scope must include inergen system for certain rooms(PTEV server room, OIS room, MCR etc...) as per IBD document. TMC asked EPC developer to include water based sprinkler system in support facility though it is not mandatory as per local codes. SPCL agreed to include inergen system for special area in hadron facility and water based sprinkler system in support facility. Statutory approvals from local fire authority for the system shall be taken by EPC developer.
l	DG set - shall be air cooled type instead of water cooled DG sets using cooling tower initially proposed.

m	Telephone system Under telephone system, both active and passive components are to be included in the bidder's offer. HLL asked whether proposed system is IP based and active components must include router, Ethernet switches, telephone exchange etc. M/s. SPCL confirmed that system is IP based and include the above mentioned components.
n	Data system M/s. SPCL informed that only passive components are included in Scope Of Work. HLL stated that the scope of work covers hadron facility where network requirements are mentioned in IBD document.
o	MGPS SPCL informed that only piping network, controls, bed head panel with outlets, accessories etc. are included in the scope of work. Connectivity of MGPS shall be from existing building in ACTREC campus(ward block building).HLL informed that all related works for connectivity has to be included in Scope M/s. SPCL agreed to include the same.
p	Therapy safety system HLL informed that therapy safety system is also a part of the EPC developer's Scope of work, which seems missed out by EPC developer. HLL informed that the details are available in document no.63 of IBD document. M/s. SPCL informed that they will include the same in Scope of work.
q	Based on the request from the bidder, the date of submission of bid is extended till 30.06.2016 @ 2 PM & Bid opening on 30.06.2016 @ 3 PM
Reply to the query which were not answered in the minutes of the meeting uploaded in website on 25.05.2016	
	Pre Bid Query from bidders
	Clarification
162	Electrical LT distribution shall be 415 V, 3 Phase, 50 Hz for DISCOM supply as well as DG Supply
	The LT power distribution shall be 400V, 50 Hz supply with tolerance +/-10% continuous for voltage and +/- 1% for frequency (As per IBA's requirement). Please find the attached revised schematic diagram of LT Power distribution provided by IBA
168	Whether UPS is considered for Emergency lighting only not or not
	UPS is considered for emergency lighting as well as power outlets.1 no 80KVA UPS is required for Hadron facility(as per the requirement of IBA) and 1 no 60KVA UPS is required for support facility emergency lighting and power sockets
170	RFP/IBD states that a) UPS 60 KVA 1 BA b) DG Set 110 KVA for 1 BA Do we need to install additional UPS & DG Sets?
	1 no 80KVA UPS has to be given for Hadron Facility as per IBD (Table No.52.23 B of IBD).1 no 110KVA UPS has to be installed for emergency power,Since IBA need emergency power with an integration of maximum 15 sec.DG back up (100%) is considered for the system and has to be provided by the EPC Developer
180	Whether the standalone Addressable Fire Alarm System for Hadron Beam Hospital is to be connected in network with the existing Fire Alarm System. Make & model of the existing Fire Alarm Panel may be provided to consider this networking if required
	Addressable type fire alarm system is to be considered for the project.A repeater panel has to be considered in the guard room, which is in the scope of EPC developer.Make of materials will be as per RFP and the details of the existing panel if required may be collected from the Engineer of TMC, Kharghar Campus.