

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

Minutes of PREBID Meeting held at 10.30 AM on Friday, 29.04.2016 at TATA MEMORIAL HOSPITAL, PAREL, MUMBAI

| MEMBERS PRESENT | | | |
|------------------------|--|----|---------------------------------|
| 1 | Dr. R. A. Badwe, Director, TMC | 18 | Mr. Solomon Fernandez, PCE, HLL |
| 2 | Dr. A.K.D'Cruz, Director, TMH | 19 | Mr. P.Rathnachalam, HLL |
| 3 | Dr H.K.V Narayan, Dy Director ,ACTREC | 20 | Mr. M.Kundan Kumar, HLL |
| 4 | Dr.S.K. Shrivastava, Prof & Head, Radiation Oncology | 21 | Mr. Dinesh Kumar, HLL |
| 5 | Dr Siddharth Laskar, Prof & Radiation Oncologist | 22 | Mr. Gopa Kumar, HLL |
| 6 | Dr.D.D. Deshpande, Head , Medical Physics | 23 | Mr. Sujeesh, HLL |
| 7 | Mr.G.S.Dhanoa , Chief Engineer ,TMC | 24 | Mr. Suraj, HLL |
| 8 | Mr.M.S. Mangrulkar, Head IT, TMC | 25 | Mr. Viren Mistry, L&T |
| 9 | Ms. Indira Pasupathy, JCFA, TMC | 26 | Mr. Gyan Prakash, L&T |
| 10 | Mr.P.B.Baburaj, OIC, ES, ACTREC | 27 | Mr. Mihir Girase, L&T |
| 11 | Mr.Prasad Kanvinde, OIC, IT,ACTREC | 28 | Mr. Sachin Utekar, SPCL |
| 12 | Mr. M.K.Nate, Engineer Civil , TMH | 29 | Mr. Mohd. Ali Ansari, SPCL |
| 13 | Mr.R.B. Kapse, Engineer Electrical , TMH | 30 | Mr. Ravi Singh, SPCL |
| 14 | Mr. K.K. Karle, Engineer , Mechanical | 31 | Dr. Trivedi, SPCL |
| 15 | Mr. B.Chandra, Engineer Civil ACTREC | 32 | Mr. Siddharth Rasal, SPCL |
| 16 | Mr. Rakesh Pathak, IBA | 33 | Mr. Dinesh Tupe, SPCL |
| 17 | Mr. Carlos Simoes, IBA | 34 | Mr.Jeganmohan Bhaskaran, SPCL |
| | | 35 | Mr. Sandesh Vaivadhe, SPCL |
| | | 36 | Ms. Anupama Jagtiani, SPCL |

Dr.R.Badwe, Director, TMC chaired the meeting. PCE, HLL in his opening remarks informed that, all the queries raised by EPC developer in writing will be replied soon. It is also informed that incase of any contradiction between the decision communicated through the Minutes Of the Meeting and the terms and conditions of original tender document, the former will prevail. It is also informed that signed copy of the pre bid meeting minutes should form the part of bid submission of the tenders.The replies for queries raised and discussed during the Pre Bid Meeting including queries submitted by the bidders are provided below.

A few points (marked XX) requires little more information from the client side and are under hold which will be communicated as addendum to this MOM within the shortest possible time.

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| COMMERCIAL | | | | |
| 1 | General | | Request to provide the Soil Investigation Report | Report on Soil investigation done at the site is attached as Annexure -I |
| 2 | General -Land documents & statutory approvals | | Please confirm if any preliminary approvals are obtained for this project. If yes, we request you to provide the details of the same. We also request you to provide land particulars to enable us assess the approvals requirements. | No preliminary approval obtained for this project. The information/particulars regarding the site can be shared to the bidder if the requirement is made specific. Obtaining statutory approvals is part of scope of appointed EPC developer |
| 3 | General | EPC Developer | Request you to kindly consider replacing the term "EPC Developer" referred in the entire RFP document with "EPC Contractor". | As per tender document |

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| 4 | Vol 1/Section II - ITB,CL. 5.2/P27 | Tenders should be submitted to: The Deputy Vice President (T), HLL Lifecare Limited, Infrastructure Development Division, "Adarsh", T.C 6/1718(1), Vettamukku, Thirumala PO, Thiruvananthapuram- 695 006 | Submission venue of tender in Thiruvananthapuram demands finalisation of tender 3 days in advance due to logistic of travelling to Thrivananthapuram for hand delivery. Submitting tender by courier to Thrivananthapuram is practically complex and risky and prime Courier companies such as DHL, Bule dart demand C-form(as per the taxation law of kerala) from the receiver of documents i.e HLL in this case as the tender will include Tender security of Rs. 83.93 Lakhs and Tender fee of Rs.24000. We request you to allow us the option of submitting the RFP at your Navi Mumbai Office. This will save considerable time and cost . | Submission shall be in Trivandrum only |
| 5 | Vol 1- ITB ,Page.7,Clause 1.1.2 | Last Date & time of Submission of Tender : 17.05.2016, up to 14.00 Hrs | We request you to extend the date of bid submission by 30 working days from the existing date i.e 17th May 2016. | The date of submission shall be on or before 15:00 Hrs on 14th June 2016 at HLL IDD Office at Trivandrum. |
| 6 | Vol 1/Section II - ITB CL. 4.2.1 - ITT, page 20, Appendix 1 page 32 | Part -I shall comprise the followings: g. Relevant Experience for the projects h. Financial Data for the past five years i. Net Working Capital in the form T-V ii. Net cash flow in the Form T-V iii. Annual Turnover from similar design and build projects in the form T-V | The requirement stated in clause 4.2.1 and Appendix I was submitted during the Prequalification Stage Process based on which the applicants are assessed and finalised for RFP stage. Hence we request the client /HLL to delete the requirement of repetitive information (credentials related such as work expereince, financial, as per form T- IV T-V and T-VI information) from the RFP stage and allow us to submit the Technical proposal and financial bid proposal only. This will also make the RFP submission less Voluminous. | As per tender. However if identical information was already submitted in the EOI, the same may be indicated with reference and no duplication is required. |
| 7 | Vol I , Clause 3.2 | Schedule of Milestones - Table of Milestone for Payment | Monthly Invoice shall be submitted by the Contractor based on the completion of work for each milestone. | The overall project schedule shall be submitted by the EPC Developer along with Procurement plan, QA plan, Manpower schedule, etc. before start of the works. The same shall be scrutinised and approved with required modification and assigning specific weight for each activity, by HLL,IBA & TMC. Monthly payment can be considered based on the percentage progress achieved as assessed from the weight of the activities at site. |
| 8 | Vol I, Appendix to the form of tender (Clause 9.7 as in GCC) | Liquidated Damages - 0.50% of Contract value of works for each week | Request to reduce the maximum LD cap as 5% instead of 10% | As per tender document |
| 9 | Vol.2,Pg.38,GCC, Cl.9.7 Vol.1, Appendix to Tender, Pg.36, Sr. v, | or part thereof where the EPC developer is in default, subject to maximum of 10% of Contract value | We request you to reduce the maximum LD to 5% of Contract Price with rate of LD @ 0.25% per week. | As per tender document |

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| 10 | Vol.2, Pg.20, Cl.2.1 | <p>2.1 Right of Access to the Site: ... If there is any delay in the performance of the Contract due to a failure by the Employer to give any such right or possession within such time, the EPC Developer shall give notice to the Engineer and shall be entitled subject to Sub-Clause 21.1 (EPC Developer's Claims) to an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 9.4 (Extension of Time for Completion). No extra payment of whatsoever nature shall be made to the EPC Developer in this regard.</p> | <p>This clause permits only EOT and no cost compensation towards extended stay due to any delay in handing over of possession/access to site. The clause may please be suitably modified to allow cost compensation for the delay attributable to the Employer.</p> | <p>No clause for cost compensation can be considered. Tender document provision shall remain.</p> |
| 11 | Vol.1,Pg.12,NIT Cl.2.2 | <p>TIME SCHEDULE The tenderer shall submit with the tender "Time Schedule" for completion of various portions of works. This schedule is to be within the overall completion period of 24 months, including the time period for getting approvals/ permissions/ permits from the statutory authorities incl. Occupancy / Completion Certificate...</p> | <p>(a) We request you to consider 6 months of additional period for design / approval. (a) Since obtaining of OC/Completion Certificate is uncertain and dependance on the external Authorities we request you to exclude from Time Schedule, the time for obtaining OC/Completion Certificate. (b) Commencement of DLP/maintenance shall be reckoned from the physical completion of the entire works (excluding OC/completion certificate).</p> | <p>Completion period will be as per tender document. DLP shall commence from the date of issue of Completion certificate by the EPC Consultant. Delay in receiving occupancy certificate will not be a consideration in providing Completion certificate.</p> |
| 12 | Vol.2, Pg.24, Cl.4.11 | <p>4.11 Unforeseeable Difficulties Except as otherwise stated in the Contract: a. The EPC Developer shall be deemed to have obtained all necessary information as to risks, contingencies and other circumstances which may influence or affect the Works; b. By signing the Contract, the EPC Developer accepts total responsibility for having foreseen all difficulties and costs of successfully completing the Works; and c. The Contract Price shall not be adjusted to take account of any unforeseen difficulties or costs.</p> | <p>As costs and probabilities of unforeseen difficulties are difficult to estimate this clause may lead to unnecessary risk loading. We therefore request you to modify the clause to permit cost compensation at actuals towards any such unforeseen difficulties based on the merits of the particular case.</p> | <p>No cost compensation clause can be included.</p> |

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| 13 | Vol.2, Pg.37, Cl.9.4 | <p>9.4 Extension of Time for Completion ..No claim towards idle time charges shall be entertained by the EPC Consultant for any reasons whatsoever. However, if the work is delayed for reasons attributable to the Employer/EPC Consultant, the Employer/EPC Consultant may at his discretion, grant extension of time, as he considers reasonable for the proper completion of work. The grant of such extension of time will not bestow on the EPC Developer any right to claim compensation/extra payment for idling of plant, labour and over head loss etc at a future date whatsoever.</p> | <p>We request you not to apply any generalized bar wrt cost compensation as some of the delays are also directly attributable to Employer (eg. Right of access not provided, any other delay attributable to employer). Please amend the clause to allow Cost compensation based on merits of the case where delays are directly attributable to Employer. Also for Employer's Risks actual costs incurred by EPC developer towards restoration of the works from loss or damage suffered due to force majeure event shall be compensated at actuals.</p> | <p>This shall be as per RFP. However, for delays beyond 12 months which is directly attributable to the Employer the compensation may be considered by the Employer / EPC Consultant on mutually agreeable basis.</p> |
| 14 | Vol.1(SCC), Pg.60,SCC Sr.29, Penalty | <p>Should there be any delay in achieving any milestone of the project, the EPC developer shall be liable to pay penalty for the delay to an extent of 1.25% of the total cost of work per milestone to the Employer. This penalty shall be in addition to liquidated damages if any, which shall be incurred if the performance of the Contract is delayed.</p> | <p>Penalty has been defined at over and above the maximum LD limits. This provision can lead to 1.25% penalty being levied even for a single day of delay in achieving any milestone. We request you to delete the entire provision of penalty as the same is too severe and may have undesirably strong effect.</p> | <p>Provision in tender document shall prevail. However if penalty is imposed upon non achievement of a milestone and if the EPC Developer achieves the next milestone in time, the withheld amount will be released.</p> |
| 15 | Vol.1,Pg.13,NIT Cl.3.2 | SCHEDULE OF MILESTONES FOR PAYMENT | <p>Please confirm that the payments will be made based on Monthly RA bills submitted by the Contractor towards the work done during the previous month on pro-rata work done under the respective milestones.</p> | <p>See answer to item No.7 above.</p> |
| 16 | General | Site Infra Structure facilities | <p>We request to provide space for the Labour Camp, Batching Plant and Site infra Structure facilities</p> | <p>Employer will not consider the request if it will affect the normal working of the campus at any stage during the period of execution. EPC developer shall find their own arrangements to establish labour camps and propose a site logistics plan showing batching plant & other temporary site infrastructure facilities which is subjected to employer's approval. However, all statutory requirements for setting up such facilities must be obtained by the appointed bidder prior to setting up the same.</p> |
| 17 | Vol.2,Pg.32,GCC Cl.7.6 | Facilities for Staff and Labour | <p>We request you to allocate land free of cost for the purpose of temporary establishments within the site premises. The proposed areas for Batching Plant and Worker Hutment may please be indicated.</p> | |
| 18 | Vol.1, Pg.56, SCC - Sr.No.20 | The EPC developer must note that the project may involve some items of demolition. | <p>As per the site vist, we understand there is no existing builing in the earmarked location. So we presume that there shall not be any demolition. Please confirm</p> | <p>Generally, there is no demolition work required. However, prospective bidder to visit the site and confirm realignment of any service lines above or below Ground Level.</p> |

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| 19 | Vol.I, page 67 -Clause 2.1.(xxix) | Scope of work - Providing all required support for IBA (PTEV) during erection and installation of the Hadron equipment. | Please provide list of the requirement. | <p>1. List of requirement provided at different stages of the revised IBD document which has been shared on 14.05.2016 shall be seen.</p> <p>2.Proposed requirements list to be prepared by the bidders& submitted along with the draft proposal during presentation.</p> <p>3.IBA shall provide the time lines/Inspection Test Plan for the same during the presentation</p> |
| 20 | Vol.I (SCC), Page No.63-(Point.29) | Insurance - Professional Indemnity Insurance Policy (PIIP) - Sum equivalent to 25% of the Cost of the project. | We shall provide a Certificate under our block annual poilcy for PIIP maintained by the company | |
| 21 | Vol.2, Pg.55, Cl.(19.1.1 & 19.2) | <p>19.1.1 Professional Indemnity Insurance Policy The EPC Developer is required to indemnify the employer / EPC Consultant against losses and damages incurred by the employer through the acts of the EPC Developer and shall take out and <u>maintain a Professional Indemnity Insurance Policy in the joint name of employer and EPC Developer</u> for a sum equivalent to 25% of the cost of project with a nationalized insurance company or any other recognized insurance company by paying a requisite premium.19.2 - Policy In Joint Names of EPC Developer and Employer</p> | <p>a) The clause may please be modified to remo "joint name of employer & EPC developer" since PI policy is not issued in the joint names.</p> <p>b) Please confirm whether the project can be covered under the Contractor's Umbrella PI Policy as costs of specific PI policies are very high. If umbrella policy is acceptable, the clause may suitably be modified/deleted replacing specific PI with design indemnity provisions.</p> | A general umbrella of PIIP is not acceptable. PIIP specific for the project with compensation assured to the employer only will be acceptable. |
| 22 | Vol.1 (SCC),Page No.55 -(Sr.No 15) | <p>4.17 - Protection of Environment: The EPC developer shall not cut or destroy any tree in the campus to the maximum extent possible. In case any tree is to be cut, permission of tree cutting shall be obtained by EPC Consultant from the concerned statutory authorities but EPC Developer shall cut the approved trees and also plant required number of saplings or adhere to the requirements of the prevailing environmental laws which ever is more stringent. The EPC developer shall use all means to minimize the effluents from his construction work and transportation activity or any other activity in the course of the project.</p> | (a) Please confirm that the commencement date shall be reckoned from the date of actual availability of site after tree cutting. | <p>Tree cutting is in the scope of the contractor. Permission for tree cutting will be obtained by the consultant.</p> <p>The date of commencement shall be as per RFP Vol I, page 36, form A, Appendix to the form of tender (iii)</p> |
| 23 | Vol.2,Pg.46,Cl.15.4 | <p>Mobilization Advance Mob. Adv. shall be paid upto 10% of original Construction Value stated in the LoA and is payable in two equal installments. The first installment shall be paid after mobilization has started & next installment shall be paid after satisfactory utilization of earlier advance. The interest rates shall be charged at 10%.</p> | <p>(a) Mobilization Advance of 10% of contract price may please be considered as interest free..</p> <p>(b) We also request you to consider Corporate Guarantee in place of Bank Guarantee.</p> | No interest free Mobilisation advance can be considered.The provision in the tender document shall prevail. |

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| 24 | | Secured Advance | Request to provide secured advance of 90% on Non-Perishable Materials. to enable us to quote our price competatitively. | Secured advance upto 90% on value of Non perishable materials shall be made subject to submission of all necessary documents such as delivery challan, invoice, inspection report, approved make of material, test certificates, required indemnity bond in the specified format, etc. The market rates for such materials shall also be verified by the EPC consultant prior to release. Materials for which the secured advance is paid shall be used within a period of 3 months. The amount for the materials paid as secured advance will be recovered if not utilised within 3 months as decided by the Engineer in Charge. |
| 25 | Vol.2,Pg.22, Clause 4.2 | Performance Security (a) Within 30 days of issue of the LoA, the successful Tenderer shall furnish Performance Security in the form of a bank guarantee for an amount of ten per cent of the Contract Value.... | We request you to consider Corporate Guarantee in lieu of Bank Guarantee towards Performance. | As per tender document |
| 26 | Vol.1(SCC), Pg.62,Sr.38, | 15. Contract price and payment: The EPC developer must submit his income tax, VAT returns, PF & ESI payment challan, etc before the payment is released from the Employer. He shall also submit copies of the Expenditure sheet for the various expenses he has made towards the achievement of a milestone. | Since the contract is on EPC Design & Built basis and not on Cost plus model the last sentence of this clause, i.e. <i>"He shall also submit copies of the Expenditure sheet for the various expenses he has made towards the achievement of a milestone "</i> may please be deleted. | As per tender |
| 27 | Vol.II (GCC), Page 48 | <p>Clause 15.10 - Timing of Payments Except as otherwise stated in Sub-Clause 2.4 (Employer's Claims), the Employer shall pay to the EPC Developer on verification and certification by the EPC Consultant:</p> <p>(a) the first installment of the advance payment within 42 days after the date on which the Contract came into full force and effect or within 21 days after the Employer receives the documents in accordance with Sub-Clause 4.2 (Performance Security) and Sub-Clause 15.4 (Advance Payment), whichever is later;</p> <p>(b) the amount which is due in. respect of each Statement, other than the Final Statement, within 56 days after receiving the Statement and supporting documents; and</p> <p>(c) the final amount due, within 42 days after receiving the Final Statement and written discharge in accordance with Sub-Clause 15.13 (Application for Final Payment) and Sub-Clause 15.14 (Discharge).</p> | <p>Request to consider the interim payment for the work done as follows: 75% of payment shall be released within 10 days from the submission of bill by the contractor. Balance payment shall be released within 21 days including certification from the date of submission.</p> <p>We request you to consider 28 days as against 56 days mentioned in this clause towards release of payments against RA Bills as this would facilititate proper cashflows and reduce the working capital costs.</p> | <p>75% of the payment shall be released within 7 working days from the date of receipt of the bill by EPC consultant with all required details and supporting documents. Balance payment shall be made within 21 working days from the date of release of 75% advance payment on RA bills if the RA bill submitted is supported by all required certificates and documents.</p> |

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| 28 | RFP Vol.I - Page No.23 (Clause 4.3.2) | There will be no variation in the Contract Price quoted by the tenderer on any account. | As per CPWD, projects with duration above 12 months is eligible for escalation. Hence, we request you to include escalation as per clause 10 CA & 10CC to enable us to quote our price competitively. | No price escalation is admissible. |
| 29 | General (Basic Rates of Materials) | | We request you to kindly consider inclusion of Basic Rates for the following Materials for the purpose of compensation the increase in prices of these materials: (a) Cement (b) Reinforcement Steel (c) Structural Steel (d) RMC (e) Tiles (f) Doors & Windows | The contract has no price variation clause included. However for the selection of materials like tiles etc. the relevant basic rates of CPWD schedule shall be considered. |
| 30 | Vol.2,Pg.23,Cl.4.5 | Co-operation with other Persons at Site The EPC Developer shall, as specified in the Contract or as instructed by the Engineer, allow appropriate opportunities for carrying out work to: a. the Employer's Personnel, b. any other EPC Developers employed by the Employer, and c. the personnel of any legally constituted public authorities & authorized by Employer, d. the personnel of PTE Vendor who may be employed in the execution on or near the Site of any work not included in the Contract. Services for these personnel & other EPC Developers may include the use of EPC Developer's Equipment, Temp. Works or access arrangements, which are the responsibility of the EPC Developer. | In case of use of EPC developer's equipment, temporary works, access arrangements by any other Employer's Contractor , EPC developer shall be paid charges towards such usage as per mutual agreement. Please confirm. | As per tender document. However charges for such usage by other contractor of the employer may be decided in mutual concensus. |
| 31 | Vol.1, Pg.23,ITT Cl.4.3.5 (CMC) Vol.2,Pg.31,GCC, Cl.6.6 (AMC) | 4.3.5 TMC will enter into CMC (Comprehensive Maintenance Contract) for the period of 60 Months (after completion of defect liability period) with the supplier/vendor of any equipment supplied under this contract at the rates to be separately quoted by the EPC Developer. This CMC rate will not be considered for the evaluation of lowest bidder. 6.6 Maintenance of Equipments (a) The EPC Developer shall provide Annual Maintenance Contract (AMC) for the entire equipment for a period of 5 years after the defect liability period. (b) The EPC Developer shall be responsible for the maintenance of the equipments during the Defects Liability Period as specified in Special Conditions of Contract. | (a) Please confirm whether CMC rates can be quoted at appropriate time at later stage to make the rates more relevant as the contract in any case would be directly between TMC and the relevant supplier/vendor. (b) If rates are to be quoted along with price bid we request you to mentiond the specific items/equipment for which CMC is anticipated. (c) Since TMC wishes to enter in the CMC for the period of 5 years after DLP for all the equipment, we request you to delete GCC Cl.6.6 (Vol.2) which seeks AMC for the same period leading to duplication of certain costs. (d) In case AMC is required for any equipment, we request you to confirm the specific equipment for which AMC of 5 years is to be provided. | The rates for CMC shall not be considered for finalisation of the offer of the EPC developer. However, the EPC developer shall provide the rates for CMC for all the applicable equipments as a separate quote and shall also ensure that his suppliers shall enter into CMC for the specified period with the Employer after the Defects Liability Period |

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| 32 | Vol.2(GCC),Pg.60,Cl. 21.7 | <p>Nomination of Arbitrators / Sole Arbitrator</p> <p>If the Engineer fails to give his instructions or decisions in writing within 2 weeks or if the EPC Developer is dissatisfied with the instructions or decision of the Engineer, the EPC Developer may within 14 days, of the receipt of Engineer's decision appeal to the Director, TMC who shall appoint an arbitrator.</p> <p>Except where the decision has become final binding and conclusive, disputes shall be referred for arbitration by the sole arbitrator appointed as above.....</p> | We request you to consider modifying this clause to facilitate "Sole Arbitrator" being appointed by the Parties by Mutual Consent. | The arbitrator shall be appointed by the The Director, TMC |
| 33 | General | Approvals from Atomic Energy Department | Approvals from Atomic Energy Department shall be taken by the Client directly. The EPC developer shall be excluded from the responsibility of obtaining AERB approvals. Please confirm. | Employer will obtain AERB approval based on the drawings & structural design details of shielding walls provided by the EPC Developer. The EPC developer shall provide all necessary assistance in this regard |
| 34 | Vol.2,Pg.26,Cl.4.18 | Electricity, Water and Gas | We request you to provide one source of water & electricity point on chargeable basis. Distribution from that source to be contractor's responsibility. | As per tender document |
| 35 | Annexure I, RFP Vol III | 3D sketch View -Not Provided | Request you to provide the same. | The 3D images of various options should be proposed by the EPC developer. |
| ARCHITECTURAL | | | | |
| 36 | Annexure I, RFP Vol III Master Plan | | Since the site under reference is a part of pre-designed master plan, confirm the points noted below | |
| | | | i) Should we assume the proposed Hadron Therapy facility will be a gated facility and shall be considered as a independent project, kindly confirm? | This is not a gated facility |
| | | | ii) We also assume that the RG/Green open spaces around the new facility building is to be considered as part of pre-approved master plan, kindly confirm? | Not part of approved Master plan |
| | | | iii) Provision of Parking is considered at Master Plan level, kindly confirm? | Parking for the proposed structure to be considered seperately. |
| | | | iv) For codal check of the site we shall refer the Navi Mumbai Municipal Corporation, 2006 gazette and the NBC, Kindly confirm? | All necessary statutory approvals are in the scope of EPC developer (except permission for tree cutting and AERB approval). Please refer to all codes relevant to Navi Mumbai |

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| | | | v) Is the construction of Hadron Landing Space shown in the Master Plan in our scope? If yes, What would be the load of equipments which is to be placed on the Hadron landing Space? Do it need to be a RCC platform? | Not in the scope of EPC developer . |
| 37 | General | | Kindly provide soft copy of the survey drawing to help us cross check our plot extent. | The availabe overall site survey plan has been shared for information only. EPC developer to ascertain the contours levels. |
| 38 | General | | The currently master plan indicates approximate plot dimensions (90m X 101m), which sums up to a total of 9090 Sqm, however the area of Plot-1 is indicated as 1,60,007.425 Sqm. Kindly comfirm the site boundary (within plot-1) that we shall have to develop. | Revised concept plans provided by HLL (ANNEXURE II) and the plot dimensions are marked. |
| 39 | Annexure I, RFP Vol III Master Plan | | If we assume the plot under reference as an independent plot, do we have to propose compound wall and entry gate details for the same, please clarify. | Compound wall and gate are not required |
| 40 | Annexure I, RFP Vol III Master Plan | | Do we also have to propose security cabins at the entry/ exit points for the proposed facility? | Security cabins shall be considered at the entry and exit points |
| 41 | Annexure I, RFP Vol III Master Plan | | Can we assume entry to the proposed plot through the 11M peripheral road within the master plan | The EPC developer may propose the entry in their design proposal |
| 42 | RFP VOL II, 5.4 Technical Standards and Regulations,Pg 29 | The design, the EPC developer's documents, the execution and the completed works shall comply with the technical standards, building and environmental laws in force in India, laws applicable to the product being produced from the works and the other standards specified in the Employer's Requirements applicable to the works, or defined by the applicable laws. Where Indian standards are not applicable, relevant international standards with the prior approval of the Engineer may be referred to. | The design will be done/reviewed for conformity as per NBC, NMMC DCR, AERB and GRIHA Guidelines. Please propose if any other statutory guidelines are to be adhered to. | All relevant Indian Standards shall be refered for conformity. |
| 43 | General | | Kindly share contour plan which will be helpful for master planning | The availabe overall site survey plan has been shared for information only. EPC developer to ascertain the contours levels. |
| 44 | RFP Vol IV, Pg 6, General Conditions, Point No. X | The planning should include landscaping and horticulture to increase the comfort conditions inside the building. The EPC Developer shall create parking, parking for handicapped persons, approach roads and other requirements for the building. | We assume only internal roads in our scope, any approach road outside the designated plot shall not be in our scope, kindly confirm. | Approach road is not in the scope of EPC developer |
| | | | The current site plan/ master plan does not indicate any road layout, can we develop the site plan and propose road layouts in compliance with the codes and design standards? | The same shall be considered in EPC developers proposal |

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| 45 | RFP Vol IV, Pg 6, General Conditions, Point No. X | The planning should include landscaping and horticulture to increase the comfort conditions inside the building. The EPC Developer shall create parking, parking for handicapped persons, approach roads and other requirements for the building. | Landscape Design is part of External Development & it is in EPC developers scope. Kindly Clarify | Shall be as per RFP |
| 46 | General | | If any deviations/disconnects observed in design from the codes does the EPC developer have a freehold to update & redesign the ambiguity areas? | Yes. But without deviating from the basic concept design. |
| 47 | General | | Please confirm If traffic analysis has been done for this design. | EPC developer shall consider in his design proposal |
| 48 | Annexure I, RFP Vol III Ground Floor Plan | | Can we propose to eliminate steps at all the building entrances? Instead can we propose the formation level adjacent to building to have a gradual slope? | |
| 49 | Annexure I, RFP Vol III Ground Floor Plan | | There are total of 4 staircases in the current layout, out of which 2 are dedicated to the vaults. Can we propose to reduce the count of the remaining, since it is a G+1 storey structure. | The staircase and elevators shall be as per revised concept plan provided by HLL. The elevators shall be as per revised concept design. |
| 50 | Annexure I, RFP Vol III Ground Floor Plan | | There are two elevators of different sizes indicated in the main lobby, should we assume the smaller elevator as service elevator, confirm. | The toilets can be modified with better design. The room behind ATM in lobby can be utilised for Pharmacy as per Employer's requirement. |
| 51 | Annexure I, RFP Vol III Ground Floor Plan | | We assume the toilet with access from the vault area is for use of patients, confirm? | |
| 52 | Annexure I, RFP Vol III Ground Floor Plan | | There is an empty space shown behind the ATM, confirm the function for the same? | |
| 53 | Annexure I, RFP Vol III Ground Floor Plan | | Do we need to propose TPA office or counter in the back office, confirm. | |
| 54 | Annexure I, RFP Vol III Ground Floor Plan | | Does this room require independent cubicles? Can we propose an open space with linear running work stations instead? | |
| 55 | Annexure I, RFP Vol III Ground Floor Plan | | Is there any specific requirement for the open to sky (OTS) void in between the staircase and toilet? Kindly clarify purpose of the same. | |
| 56 | Annexure I, RFP Vol III Ground Floor Plan | | The current layout shows no toilet within the staff zone. The only toilet located in this area has to be accessed from the vault corridor, is this adequate, kindly confirm. | Revised concept plans provided by HLL shall be followed. Minor changes which will not have cost implications shall be decided during design verification stage. |
| 57 | IBD Lastest Doc-3, No:36 | | Requirement of a Machine room is indicated subject to scope of the project. Please give clarity on the location, size and requirement of this room. | |

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| 58 | IBD Lastest Doc-3, No:38 | Recommended Rooms: Some rooms are recommened by PTEV for service optimizations. These rooms are however to be designed and located by the hospital and out of IBA standard scope. | There are about nine rooms mentioned in the document, viz. 1. Treatment planning computer room 2. TPS/OIS server room 3. Patient immobilization device storage room 4. Patient Treatment devices storage room 5. Patient Treatment devices controlled storage room 6. Patient immobilization body devices fabrication shop 7. Dosimetry equipment storage room 8. Snout storage room 9. Processing Lab. kindly provide clarity about location of the same. | |
| 59 | Annexure I, RFP Vol III Ground Floor Plan | | Do we have flexibility to make design modifications in order to add value to the existing layout, please confirm. | |
| 60 | Annexure I, RFP Vol III Ground Floor Plan | | The current layout shows a 6M wide patient waiting area in front of the treatment rooms. Can we propose to create sub-waiting areas and have a dedicated circulation corridor free of waiting. Please confirm. | The EPC developer may submit his proposal with his value additions but without any substantial change in total area. |
| 61 | Annexure I, RFP Vol III Ground Floor Plan | | We assume the vault area is a highly restricted and sensitive area, in the view of the same should we propose a more controlled access by limiting the entry points, please clarify. | |
| 62 | Annexure I, RFP Vol III First Floor Plan | | Can we assume rooms shown in current layout would be functionally sufficient. Would additional cabins or office area be required, kindly confirm. | |
| 63 | Annexure I, RFP Vol III First Floor Plan | | Can we assume this room to be a single open space with no sub-divisions. Please clarify the functions that will be accomodated within this room. | This was already clarified at the presentation during the AN session. |
| 64 | M-Id TBD -31.01 A | Min Width- 3.8 m | Width provided in first floor plan is 3.5 m. Please confirm on which to be followed. | The width shall be as per revised concept plan provided by HLL |
| 65 | M-Id TBD 35.01 A | 12 sq.m to be planned | Can we consider computer server room as PTEV Server room. | Please refer to the revised concept plans provided by HLL |
| 66 | M-Id TBD 37.01 A | 20 sq.m to be planned | Not provided in the drawing | |
| 67 | M-Id TBD 37.01 A | 50 sq.m to be planned | Not provided in the drawing | |
| 68 | M-Id TBD 37.01 A | 50 sq.m to be planned | Not provided in the drawing | |
| 69 | M-Id TBD 37.01 A | Office 1-Min area - 85 Sq.m Office 2 & 3: Min.area 11 Sq.m each. | Not provided in the drawing | |
| 70 | M-Id TBD 00.31-1 A 1/3 | | No dimensions for the concrete wall thickness specified in the entire document. Please confirm the thickness of concrete walls envisaged. | IBA shall provide the dimensions including thickness for various RCC |

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| 71 | M-Id TBD 00.31-3 A 3/3 | | The concrete wall thickness in the sections are not mentioned in the drawings provided. Please confirm the thickness of the concrete walls. | structural members in the Hadron treatment facility. The thickness of various structural members shall be as per the approved design by AERB. However Concrete wall thickness shall be considered as noted in the revised drawing enclosed with this.Any change in quantity will paid /deducted at the present DSR rate. |
| 72 | M-Id TBD 38.01 A | Min Area required -40 sq.m | | |
| 73 | M-Id TBD 38.01 A | Min area required -12 sq.m | | |
| 74 | M-Id TBD 38.01 A | - | Please confirm whether the Recommended rooms to be incorporated in the floor plans as per the IBA document requirements. These rooms are not found in the present plans provided to us in the RFP document. If these rooms have to be planned now, the Built up area for the facility would go up accordingly and hence request to confirm whether increase in BUA will be permitted. | Please refer to the revised concept plans provided by HLL |
| 75 | M-Id TBD 38.01 A | - | | |
| 76 | M-Id TBD 38.01 A | Min area required- 12 sq.m | | |
| 77 | M-Id TBD 38.01 A | - | | |
| 78 | M-Id TBD 38.01 A | - | | |
| 79 | M-Id TBD 38.01 A | Min area required - 18 sq.m | | |
| 80 | M-Id TBD 38.01 A | - | | |
| 81 | M-Id TBD, Point No.1 : 62.01 A | The calculation of the radiation shielding in the building is the responsibility of the D/BT | | |
| 82 | Vol 1,Page 68 -Clause: 2.1.1 | Proton Therapy Facility: The rigging openings for the cyclotron and gantries must remain covered by a temporary roof in order to protect equipment from weather and allow for multiple openings and closings. An insulating cover will be placed after IBA installation. | Since there are no details in the provided drawings for this insulating roof, Please confirm the scope of the insulating cover lies with IBA. | Refer IBD REV B - 01.31-1.B |
| 83 | M-Id TBD 62.01 A | PTEV recommends that the D/BT fill the gaps with borated foam after the installation of the concrete blocks to avoid any radiation leakage. | Please confirm borated foam necessity for the project. | Refer IBD REV B - 62.01 B |
| 84 | | | Kindly arrange to provide the acad drawings of the Master Plan, Floor Plans including terrace plan, Section & Elevations. | Already provided |

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| 85 | Exisiting services drawing | | Kindly provide the exisiting services drawings for the masterplan, if available in ACAD format | The available existing services drawings shall be shared by TMC is attached as Annexure -III |
| 86 | HLL/IDD/TMC/ACT REC/KRGR/A0 | Hadron Landing Space | Please confirm whether the Hadron Landing space to be included in our scope of work. | Not in the scope of EPC developer |
| 87 | HLL/IDD/TMC/ACT REC/KRGR/A0 | Hadron Landing Space | We understand that the approach roads at rear and right side are existing and hence not in our scope of works for the proposed Hadron facility | Not in the scope of EPC developer |
| 88 | HLL/IDD/TMC/ACT REC/KRGR/A0 | | Please confirm the location of the Service building and the area. | To be indicated by the EPC developer in his design proposal and shall be confirmed during design verification stage |
| 89 | HLL/DD/TMC/ACTR EC/KRGR/A1 | Area Statement, Porch - 110 Sqm. | we understand that the porch dimension is around 10m x 22m. Hence we assume that area mentioned for the area calculation of the porch is arrived based on 50% of porch built up area. | As per the revised concept plans provided by HLL & built up rules. |
| 90 | HLL/DD/TMC/ACTR EC/KRGR/A1 | Total Built up Area - 6164.67 Sqm. | This area is in contradiction to Volume 1, Page 9, 2. Scope of works, 2.1 "The total builtup area for the entire project shall be about 6518 Sqm". Please confirm. | Revised concept plans provided by HLL. The total area is 6273 Sq.M as per the revised drawing. |
| 91 | HLL/DD/TMC/ACTR EC/KRGR/A1 | Physics Q.A., CT Simulator, MRI Simulator, Preparation Room, Anesthetist, Recovery, Nurses station, Clean Utility, Dirty Utility, Computer Server Room, Treatment Rooms, Joint Clinic, Children Play Area, Café, Book Shop. | Please confirm finishing schedule. | Attached seperately (ANNEXURE IV) |
| 92 | HLL/DD/TMC/ACTR EC/KRGR/A2 | Meeting room, Clinical Research / Trial room, Coffee room, Library, House Keeping. | | |
| 93 | Volume 1, 2.1, ix. | Compliance with Environmental and energy efficiency norms and obtaining at least 3 star GRIHA rating. | Please confirm whether we would be registering the project for GRIHA certification after June 2016. If so, then we need to register for new GRIHA evaluation norms which are stringent than the existing norms. | Griha norms shall be followed for designing. Griha certification is not required for the project. |
| 94 | Volume IV | Point 3. Chief Physicist Room / Consulting Room | Please confirm the same finish for all Physician Rooms & Physics Common Area. | Please refer to revised concept plans provided by HLL |
| 95 | Volume IV | Point 5, Admin / Directorate Room | Please confirm the location of the rooms in the floor plans. | |
| 96 | Volume IV | Point 6, Private/General/Relatives Waiting area | Please confirm the location of Private / General waiting areas in the floor plans. | |
| 97 | Volume IV | Point 8, Operation Theatre | Please confirm the location of the Operation Theatres in the floor plans. | |
| 98 | Volume IV | Points 10, 11. Doctors Room, General Room. | Please confirm the location in the floor plans. | |
| 99 | Volume IV | Point 7, Equipment Area | Please confirm the location in the floor plans. | |
| 100 | 4.2.4, Part-II, (b) iii. | Detailed work plan, detailed design documents mentioned in Clause 2.1.4 of Section 1 (NIT) master plan and design of the project. | Clause 2.1.4. not found in Volume 1 | To be read as 2.1 (Scope of work) -Vol.I -GCC |

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| 101 | Volume IV | Goods lift (3 ton) - 1 no. | Please confirm the location of 3 ton capacity lift in the floor plans. | Please refer to revised concept plans provided by HLL. There shall be 2 Nos of Passenger bed lift & 1 No of Goods lift. All lifts shall have machine rooms on terrace floor except for goods lift. |
| 102 | | | Please confirm the Population for calculating the PHE sump capacities. | Peak population of 300 shall be considered |
| STRUCTURAL | | | | |
| 103 | RFP-3.1.2.1-Volume IV | Structural class considered as Class-B | As per IS 875 (PART-3):1987 for Structures having length/height more than 50m are to be Class-C structure. Please clarify the same. | Class 'C' - structures and/or their components such as cladding, glazing, roofing, etc. having maximum dimension greater than 50M. Accordingly, classification can be considered |
| 104 | RFP-3.1.2.2-Volume IV | Importance factor considered for Hospital and other Structures as 1 | As per code IS 1893 (PART-1):2002, Importance factor for hospital is to be 1.5 and for other structures it is to be 1. Please clarify the same. | Hadron facility is a part of hospital facility as far as function is considered. As per Table 6, IS 1893 this is a structure of important service. Importance factor should be 1.50 |
| 105 | RFP-Volume IV (Page 23 to 27) | 3.3 clause is not available. | Please Confirm the same. | Page Nos.23-27 (RFP.Vol.IV) Clause No.s may be read as : Clause 3. Structural System Clause 3.1 Design Philosophy Clause 3.2 Design Loads Clause 3.2.1 Dead Load Clause 3.2.2 Imposed Load Clause 3.2.3 Wind Load Clause 3.2.4 Earthquake Load Clause 3.2.5 Load Combinations Clause 3.3 Analysis method |
| 106 | RFP Vol. IV-Clause 3.5.2- | Grade of Steel considered as Fe 500 | As per IS 1786:2008, Steel reinforcement to be of Grade Fe500D (TMT) for Ductile Detailing and Design. Please clarify the same. | Usage of Fe500D should be mentioned in the structural drawings to comply with IS:1786 : 2008. For Fe500D, ductile detailing to be followed |
| 107 | RFP-3.6.1-Volume IV | Nominal Cover to Meet Durability Reinforcement: Value given as 30mm for Mild Exposure condition Instead of 20mm. | The exposure condition has to considered as mild or Moderate. Please Clarify | Follow Table-3, IS 456-2000 for exposure conditions. Mild condition is not applicable for the site. Table 16 &16A of IS 456-2000 to be followed for cover to reinforcement |
| 108 | RFP-3.7-Volume IV | Design Standards: IS:800-1984-Code of Practise for General Construction in steel | IS 800 :2007 is the latest code. Kindly confirm. | Follow IS:800-2007 |
| 109 | RFP-3.7-Volume IV | Design Standards mentioned as IS:13820-1993 for Ductail detailing of Reinforced concrete structures subjected to seismic force | IS 13920-1993 for Ductail detailing of Reinforced concrete structures subjected to seismic force. Kindly confirm | Yes, Confirmed |
| 110 | RFP-1.1-Volume IV | The type of mix and control of RCC for hardon therapy shall be as per IBD provided by IBA | Concrete mix and control details are not available in IBD document. Please provide the same. | Concrete mix shall be M30 |
| 111 | RFP Vol.I-Clause 2.1 | The total weight of the cyclotron is 220T. | i) In IBD-Volume -III,it is mentioned as 120T of 2 times for the same. Kindly clarify. ii) In IBD volume - II, it is mentioned as 232T (Refer Table 2). Please clarify the same. | May be considered as 232 T |

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| 112 | RFP- Volume-III | Portico dimention 24 X 12m , But in Area statement as mentioned as 110-Sqm | Please clarify the same. | Please follow the revised concept plans provided by HLL |
| 113 | RFP-2.1-Volume I | The total weight of Gantry is 110T, so +/- 30T on 4 locations. | Please confirm the same. | Refer IBD REV B - 02.13 B |
| 114 | RFP-3.1-Volume IV | Past Geotechnical investigations indicates the proposed site is located on moderately weathered basalt. | Please provide the details of depth of rock and SBC available. | Refer ANNEXURE I |
| 115 | | | Please confirm the Future Expansion of Floors. If any. | Vertical expansion of one more floor shall be considered. |
| 116 | Vol IV - Page 15, Note 1b | The loading due to weatherproof course consists of the following (b).25 thick bedding mortar... | 25 thick bedding mortar shall be considered as 25mm. | Confirmed |
| PHE | | | | |
| 117 | | | Please provide the drawing indicating location and invert level of existing municipal services (especially invert level of municipal sewer), if available | The details shall be verified by the EPC developer at the site |
| 118 | Drawing - Master Plan | | In the master plan, U.G. Water tank of 21.5 Lakh liters capacity is indicated near to the Vashundhara building. We are understanding that, there is existing municipal water connection to that tank and our scope starts from the existing tank (i.e. water from that existing tank shall be transferred to the proposed underground water storage tank in the premises of proposed building). Tapping off in municipal water connection is not in our scope of work. Please confirm. | EPC developer shall consider the water from the existing tank to be transferred to the water storage of the proposed hadron facility. All the required arrangements (pipelines, pumps etc.) for transfer of water from the existing facility is in the scope of EPC developer. |
| 119 | Drawing - Master Plan | | While Site visit, it was informed that there is an existing irrigation pump in open well near to the proposed building. Our scope of work includes only tapping from that existing irrigation line and to route irrigation pipe line in the vicinity of proposed building (i.e. we will not consider any irrigation pump, while irrigaiton piping with tapping point terminated by ball valve shall be considered). Kindly confirm. | EPC Developer shall consider tapping from the existing irrigation line and to route irrigation pipe line in the vicinity of proposed building. All the required arrangements for tapping and routing is in the scope of EPC developer. |
| 120 | 9.12, Storm water drainage & Rain water harvesting system | For rainwater harvesting auger boreholes are integrated in the storm water drainage. The boreholes are filed with coarse sand and pebbles. Part of storm water percolates through the boreholes | From the master plan "Drawing no - HLL/IDD/TMC/ACTREC/KRGR/A0" the boundary limits for Hadron Beam structure is provided. To dispose excessive roof water and storm water post Ground water infiltration, beyond hadron beam boundary limits, Kindly provide the details of existing storm water drain cross section & invert levels. | The excess water should be drained in the existing storm water drains. The details of existing storm water drain to be checked by the EPC developers at site. The rain water harvesting shall be considered as per statutory rule and excess run off water, if any, to be discharged into nearest storm water drain through dedicated channels/surface drains. |

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| 121 | Drawing - Master Plan | | While site visit, we came to know that there is existing storm water drain channel in the entire plot. We understand that our scope of work will include construction of storm water channel only in the vicinity of proposed building and the final drain shall be connected to the nearest existing storm water drain channel. Kindly confirm. | confirmed |
| 122 | Drawing - Ground & First Floor Plan | | In most of the toilets (PHE area), the sanitary fixtures are not shown. The type & quantity of sanitary fixtures shall be considered as per final Arch. Layout. Please confirm. | The sanitary fixtures were shown in the concept plan. The proposal in total to be submitted by the EPC developer in their design proposal which shall be reviewed during design scrutiny. |
| 123 | Drawing - First Floor Plan | | Kindly specify the type of water requirement in dirty utility & clean utility room. | No requirement |
| 124 | RFP Volume - IV | | In RFP, Solar water heating system is written. Please specify the locations where hot water is to be distributed and also specify that 100 % hot water requirement to be supplied by solar system or pre heated water to geysers at strategic location. | Solar water heating system shall be proposed in the design proposal satisfying statutory requirement/ Griha rating requirement. |
| 125 | RFP, Volume - IV, General Standards, point - vi | There should be separate inlets for hot and cold water in all the buildings. The Buildings should have sufficient number of water coolers and filters to cater to the needs of different users. | Please specify the strategic locations where standalone purifier cum cooler to be planned. | The locations shall be proposed by the Vendor and confirmed during design scrutiny |
| 126 | | | Presently we have not considered any solid waste management or Bio waste management system (especially composting plant). Please confirm. | Confirmed |
| 127 | RFP, Volume - IV, 9.6 Water treatment plant | The water treatment plant (WTP) is considered to treat the raw water for all buildings.. | As per RFP, water treatment plant to be proposed for the building. Currently we are proposing WTP comprising of chlorine dosing, ACF, PSF. Kindly confirm. | The Water treatment plant shall be designed based on the quality of raw water to be treated. EPC developer to ascertain the quality of raw water and propose WTP in his proposal. |
| 128 | RFP, Volume - IV, 9.8 Water Supply Distribution (Internal) | WCs and Urinals shall be provided with Flushing cisterns & Sensor based flush respectively. | Kindly specify the type of WC to be considered, i.e. IWC or EWC. | EWC (Wall hung) shall be considered |
| 129 | RFP, Volume - IV, 9.11 Sewerage System (External) | All building manholes shall be interconnected with suitable diameter of sewer lines for final disposal on to the manhole in the sewer network connected to the sewage treatment plant (STP). | As per RFP, STP & ETP is required. But, while site visit we came to know that there is existing municipal sewer line and it was informed that the sewer line of the proposed building shall also terminate in that existing municipal sewer line. Hence, currently we are not considering any STP or ETP in our scope of work. Please confirm. | 1. The sewer lines has to be connected to the STP. 2. STP should be provided. |

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| 130 | 3.1 - B. Miscellaneous Structures | ETP to be constructed | Kindly provide the source of wastewater generation, its quality and quantum to be treated in ETP, and whether any delay tanks or specialised treatment methods to be employed for wastewater treatment at ETP. | Not required |
| 131 | RFP, Volume - IV, 9.12 Storm water drainage and rain water harvesting sytem | • Rainwater from terrace shall be collected with rainwater down take pipes and terminated 150 mm above FGL/FRL. The rainwater is allowed to flow in the surface and collected in the proposed storm water drainage. | As per RFP document, the rain water downcomer should terminate on the surface itself. Hence we are not considering any catch basins the rain water shall flow on surface and discharge into storm water drain channel. Kindly confirm. | The rain water harvesting shall be considered as per statutory norms and excess run off water, if any, to be discharged into nearest storm water drain through surface drains. |
| 132 | RFP, Volume - IV, 9.12 Storm water drainage and rain water harvesting sytem | • For rainwater harvesting auger boreholes are integrated in the storm water drainage. The boreholes are filed with coarse sand and pebbles. Part of storm water percolates through the boreholes. | As per RFP, for rain water harvesting, we are proposing percolation pit in storm water drain channel (i.e. in the vicinity of proposed building) Kindly confirm. | The rain water harvesting shall be considered as per statutory norms |
| 133 | | | We are proposing below mentioned MOC, Please confirm. a. Hot / Cold water supply - CPVC, SDR -11 b. Water supply in shaft & terrace looping - GI Class 'B' c. External Water Supply - GI Class 'C' d. Soil & Waste (Internal / shaft) - uPVC Type B e. Vent & Rain water pipe (Shaft) - uPVC Type A f. Irrigation Pipe - uPVC Agri Pipe g. External Sewage - uPVC Type B | Agreed subject to their conforming to latest IS codes, however water supply lines shall be of CPVC. |
| 134 | | | Presently we have not considered any RO plant for RO water requirement for medical use as RFP doesn't indicate. Please confirm. | Not required |
| 135 | | | Presently we have not considered any LPG gas manifold / bank and distribution in our scope of work. Please confirm. | Not Required |
| 136 | | Approvals & Clearances | We understand that EPC developer shall obtain all statutory approvals, clearances with respect to work carried out by the developer and the statutory fee in respect to obtaining same shall be reimbursed on production of receipt for all statutory clearances/Approvals. | Yes, will be reimbursed by employer against payment receipts. |
| 137 | | Pre Construction Approvals | We understand that Pre Construction approvals such as Environmental, tree cutting, NOC from Aviation authorities shall be not in scope of EPC Developer. | Obtaining all statutory approvals are in the scope of EPC Developer except the responsibility to get approval for cutting of trees. |
| 138 | | Bio Medical waste | We understand that No Bio Medical waste shall be generated. If there is, then please quantify the same. | No Biomedical waste will be generated. |
| MGPS | | | | |

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| 139 | RFP - Volume IV BUILDING AND SERVICES DESIGN SPECIFICATION | Medical Gas Piping | We understand that medical gases will be required for Treatment Rooms, CT Simulator, MRI, Recovery Room & Preparation Room. We are assuming that medical gases will be supplied to these rooms through localized trolley mounted cylinders, not from centralized manifold system since proton therapy building shall have minimum number of rooms. Please confirm. | 1.The medical gases shall be tapped from the existing gas bank. 2. Only medical gas piping shall be provided within the facility. 3. Gas banks are not in the scope of EPC developer. |
| 140 | | | In RFP volume - IV, Medical Gas piping is written, But detail requirement is not given any where (i.e. detail scope of work & specification). Hence, if it is in our scope of work, please share detail requirement / specification of medical gas | 4. Routing for the MGPS from the existing arrangements shall be planned by the EPC Developer |
| 141 | RFP - Volume IV BUILDING AND SERVICES DESIGN SPECIFICATION | Medical Gas Piping | There is existing medical gas bank/ manifold , compressor, vacuum pump near to the proposed building, we just need to take connection from those existing medical gas plant (i.e. high side system is not in our scope of work). Confirm whether the same source can be used for medical gas supply to the Proton Therapy building. | Connection to be taken from the existing gas bank |

| ELECTRICAL | | | | |
|-------------------|--|---|---|---|
| 142 | RFP Vol.IV- Clause 4.8,tabular coloumn | Internal Electrification -2R-2.5+1R 2.5 Sq.mm (P,N&2E) | Bid document calls for 2E whereas CPWD/NBC requires 1E only.Please confirm if we need to follow bid document or codes | Please follow CPWD/NBC code and consider 1E only. |
| 143 | RFP Vol.IV- Clause 4.4 | Emergency Load requirement - Silent type ,water cooled ,radiator type ,four stroke electric start DG set with accoustic enclosure and standardr AMF control panel | Since water cooled DG sets require additional maintenance for the cooling tower and pumps,we intend to propose air cooled DG sets.Please confirm | Proposed DG set shall be water cooled type only |
| 144 | RFP Vol.IV- Clause 4.5 | HT Power Distribution system - On this basis ,1250KVA 2 no's Dry type Indoor transformers wth OLTC are required. | Considering the higher efficiency and longer life,we intend to propose Outdoor Oil cooled transformer with OLTC.Please confirm | Proposed tranformer shall be dry type |
| 145 | RFP Vol.IV- ,Section 4 | Codal conformity: The design and execution shall be carried out in conformity with the CPWD"General specifications for electrical works" Part 1(Internal) | The RFP calls for Electrical design to be in compliance with CPWD specifications.As per CPWD specification,Part -1(Internal) Chapter -3,Section 3.6, above false ceiling steel conduits recommended for surface conduiting. Since the RFP requirements are contradicting with CPWD specification, clarification required on same. | Follow CPWD specifications |
| 146 | RFP Vol.IV- ,Clause 4.8 | Internal Electrification: Surface conduit wiring with PVC conduits proposed above false ceiling . | | Same as above |

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| 147 | RFP Vol.IV- ,Clause 4.5 DrgNo.HLL/IDD/TMC/ACTREC/KRGR/A0 | The 33KV HT power supply required for the project shall be obtained from the BRIHAN MUMBAI ELECTRIC SUPPLY AND TRANSPORT from their designated source and terminated with the help of RMU/EB metering panel (Single VCB panel) and from there to HT panels located at the substations. "33KV main receiving station switch yard " demarked in the masterplan. | We assume that the 33 KV HT supply for the building shall be tapped from the Main receiving station located inside the campus as per the site plan.Please confirm | Confirmed. EPC developer shall extend power supply from the existing 33kV sub station to the proposed plot. Revised single line diagram is attached for reference. (ANNEXURE - V) |
| 148 | Volume 4,General Standards,Clause Xiii | DG set and Transformer Rating: 2x 1250 KVA Transformer and 2 x 1250 KVA DG sets.The above proposal is tentative.The developer may have to re-engineer the proposal considering the present and future requirements | Confirm whether the bidder needs to strictly follow the ratings provided in the document or can alter the ratings based on the actual design | Ratings of equipments must be revised as per actual load requirements of the project. Proposed scheme must be submitted |
| 149 | Volume 4,General Standards,Clause Xiii | Power backup -100% power backup after factoring necessary redundancy to be provided | Define the redundancy requirements | Follow details in the RFP. |
| 150 | Volume 1, Section-4,Clause2.1.1 | Cooling water requirements The EPC DEVELOPER must supply connections for three (3) consumer loops (primary loops), for a total maximum cooling load of 1100 kW | After a glance at these both clauses as per prebid document,there is ambiguity in consideration of HVAC loads Kindly confirm the Electrical Load for HVAC requirement. | Refer RFP Vol 4 for HVAC cooling load requirements |
| 151 | Volume No.4 , Clause 4.3,SI No.3 | Air conditioning load 1 KW/TR-250KW | | SI no.3, clause 4.3 of RFP vol.4 is pertaining to electrical power requirement of HVAC equipments. As per the IBD REV B, additional 125TR standby chiller and the electrical load for the same shall be considered. |
| 152 | | | Provide the distance of nearest power/ MV Panel | Nearest source of power is available at 33kV sub station. EPC developer has to extend the power supply to the proposed plot. Refer revised single line diagram attached for reference. |
| 153 | | | We are not considering any HT power line work outside the boundary. | Refer above |
| 154 | | | 11 kV HT supply shall be available from the main substation (33kV/11kV) & our scope starts from 11kV ICOG panel onwards. | Refer above |
| 155 | | | Electrical soil resistivity report. Please provide. | EPC developer's scope of work |
| 156 | | | We are considering copper cable upto 16 sq. mm. above 16 sq. mm. all cables will be aluminium. Please confirm | Confirmed |
| 157 | | | Clarify whether we should consider UPS battery back up for emergency circuit as per RFP point 4.8 or whether emergency lights & signages with battery pack to be consider as per RFP clause 4.12. | Clause 4.8 refers to lights and power outlets wherever required on emergency circuit to be connected to UPS. Clause 4.12 stipulates that illuminated exit signages shall be provided with battery pack units. |
| 158 | | | Electrical details of the medical equipments required. | Electrical load of 90 KW each for CT&MRI. Please refer to Clause 4.3 of RFP Vol.IV |
| 159 | | | Provide the electrical details of lifting cranes required inside the Hadron therapy room | Provide temporary power supply to lifting cranes |

| SL. NO. | REFERENCE SECTION /CLAUSE OF BID DOCUMENTT | PROVISION IN BID DOCUMENT | PRE-BID QUERY FROM BIDDERS | CLARIFICATION |
|-------------------|--|--|---|--|
| 160 | | | We are not considering any external lighting in our scope. | External lighting is in the scope of work. Refer clause 4.11 of RFP vol.4 |
| 161 | | | Electrical load is 2.5 MVA therefore, Electrical supply from DISCOM to be at 11 KV level | See answer to item No.152 |
| 162 | | | Electrical LT distribution shall be 415 v,3Phase,50HZ for DISCOM supply as well as DG Supply | XX |
| 163 | | | Power failure backup for DG sets shall be stand by duty | XX |
| 164 | Vol - I Page 75 | | Peak load is 1250 KVA & treatment load is 500-850 KVA | Operating power is 1375 KVA (connected load) refer IBD REV B. Duration of Peak load is 16 hrs |
| 165 | Vol IV - page 22 | | It stated that 1332 KVA , What shall be the duration of Peak load of 1250 KVA | |
| 166 | | | Shall we design Electrical system for Therapy Equipment treatment load or peak load | System has to be designed for peak load |
| 167 | | | We understand that our scope starts from DISCOM Metering Equipment / Switch gear (HT) inside the TMC complex | See answer to item No.152 |
| 168 | | | UPS is considered for Emergency lighting only not for other use. | XX |
| 169 | | | May we consider a) Outdoor oil cooled stepdown transformers b) Transformers with half load tap changer. | Dry type Step down transformer has to be considered with Off load tap changer . |
| 170 | Vol - I Page 75 | | It 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? | XX |
| ELV SYSTEM | | | | |
| 171 | 5.1.A & 5.1.B - Vol. IV | TELEPHONE SYSTEM & DATA/SYSTEM: Bill/cash/reception/Office/joint Clinic/computer server/Library- Depends on the no of work stations | One number of RJ45 Telephone / Data Outlet considered for these rooms, Kindly confirm. | Provide one outlet per work station in support facility area and follow IBD document no.67/68, Vol VI (other technics-communication and surveilliance) for requirements in hadron therapy area |
| 172 | 5.1.A & Vol. IV | TELEPHONE SYSTEM: Cat5 cable must be used for wiring from each telephone outlets to the patch panel | CAT6 UTP cable considered instead of CAT5 UTP cable for Telephone system, Kindly confirm. | Cat5 cable may be considered |

| SL. NO. | REFERENCE SECTION /CLAUSE OF BID DOCUMENTT | PROVISION IN BID DOCUMENT | PRE-BID QUERY FROM BIDDERS | CLARIFICATION |
|---------|--|---------------------------|---|--|
| 173 | GENERAL | | Active components like switches, servers, routers, software etc., for data networking & EPABX for Telephone networking are excluded from the Bidders scope of works. Kindly confirm. | XX |
| 174 | GENERAL | | Separate network for IP CCTV is not considered and shall be combined with the data network. Kindly confirm. | IP based CCTV system shall be separate network. |
| 175 | GENERAL | | Any connectivity from the Existing buildings to the proposed building is excluded from the scope of works. Kindly confirm. | Connectivity with existing data system shall be done by EPC developer. This shall be achieved by supplying, laying terminating one no of 12 core optical, single mode fiber cable including all termination items from server room of the proposed building to network rack located in room no.25 of Jussawala Shodhika building. Also refer IBD REV B for internal network connectivity |
| 176 | GENERAL | | All Special systems related to Proton Therapy like 1. Therapy Safety System 2. Radiation Detection System 3. Medical Vision Cameras inside the Gantry 4. Moisture Detection Systems are excluded. Confirm. | XX |
| 177 | GENERAL | | All ELV/IT Systems like 1. Public Address System 2. Building Management System 3. Access Control System 4. Hospital Management System 5. Queuing Management System 6. Audio Visual System 7. Picture archieving Communication Systems are excluded. Confirm. | XX |
| 178 | | | We are not considering any active components viz. EPABX, Tel. handsets, etc. for telephone distribution system. | Active components of Telephone netwoking (EPABX & Telephone set) are included in the scope of work. |
| 179 | | | We are not considering any active components viz. Core switch, layer switch, access switch, WiFi router, Optic fibre cable, etc. and any other IT networking components and Severs, PC workstations, etc. | XX |

| SL. NO. | REFERENCE SECTION /CLAUSE OF BID DOCUMENTT | PROVISION IN BID DOCUMENT | PRE-BID QUERY FROM BIDDERS | CLARIFICATION |
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| 180 | | | We are considering a standalone Addressable Fire Alarm System for this Hadron Beam Hospital and shall not connect in network with the existing Fire Alarm System. If need to network this Panel then the details viz. Make & model of the existing Fire Alarm Panel shall be required. | XX |
| 181 | | | We are considering only Addressable Fire Alarm System, Telephone distribution system, Data distribution system & IP CCTV system and no other LV system is considered. | XX |

FIRE PROTECTION SYSTEM

| | | | | |
|-----|--|---|---|---|
| 182 | | <p>Fire fighting system: Types of fire protection required;</p> <ol style="list-style-type: none"> 1. Fire extinguisher - Required 2. Hose reel assembly - Required 3. Dry riser - Not Required 4. Wetriser - Not required 5. Downcomer - Required 6. Yard Hydrant - Not Required 7. Automatic sprinkler system - Not required.(Provide in the basement if the area exceeds 200sq.m) 8. Manually operated fire alarm(MCP)call points - Required 9. Automatic Detection and alarm system - Not Required. 10. Water: (a) Terrace level tank - Required: 5000L.(10000L if the basement area exceeds 200 sq.m) (b) Underground statis water storage tank - Not Required. 11. Pump capacity - (a) 450 LPM (900LPM if the basement area exceeds 200 sqm) at the tank level with | <p>Types of Fire Protection required (Active measures) as per NBC Part IV Fire & Life safety Table 23 which states, C1- Hospitals, Sanatoria and Nursing homes A)2)Less than 15m in height with plot area more than 1000sqm;</p> <ol style="list-style-type: none"> 1. Fire extinguisher - Required 2. Hose reel assembly - Required 3. Dry riser - Not Required 4. Wetriser - Required 5. Downcomer - Not Required 6. Yard Hydrant - Required 7. Automatic sprinkler system - Not required.(Provide in the basement if the area exceeds 200sq.m) 8. Manually operated fire alarm(MCP)call points - Required 9. Automatic Detection and alarm system - Required. 10. Water: (a) Terrace level tank - Required: 10cum. (b) Underground statis water storage tank - Required.(100cum) 11. Pump capacity - At terrace not required. (b) Pump near underground static storage tank - Required. <p>The provided active measure indicated in the Tender document refers to the following clause in NBC Part IV</p> | Please follow Fire policy/rules set out by Maharastra state govt/CIDCO |
| 183 | | Inergen gas system - or pre action equivalent: In the PSR, the MCR,PTEV server room and the TPS/OIS server room a gas system(Inergen or Pre-action equivalent) installation is recommended to minimize risks of accidental water flooding, above and below the raised floor. | <ol style="list-style-type: none"> 1) Whether water-based Pre-action sprinklers can be provided. 2)If Inergen gas system is to be provided, kindly confirm the requirement of standby cylinders. | <ol style="list-style-type: none"> 1. No 2. EPC developer shall calculate the volume of Inergen gas required for those rooms. |
| 184 | | | Kindly share the provisional fire NOC for the proposed building if available. | <p>Not available.</p> <p>EPC developer has to avail initial and final NOC.</p> |

HVAC

| | | | | |
|-----|--|--|---|--|
| 185 | CHILLER PLANT ROOM AND COOLING TOWER LOCATION | | Kindly confirm the location of chiller plant room and cooling tower. | Chiller plant shall be located over the service building to be constructed as a part of the project. |
| 186 | Clause 1.C page 34 of RFP-Volume 4: CHILLER CAPACITY | | We understand that 02 nos working and 01 no. stand by water cooled screw chillers of 125 TR to be considered.Kindly confirm the same. | 3W+1S of 125TR each is to be provided . |

| SL. NO. | REFERENCE SECTION /CLAUSE OF BID DOCUMENT | PROVISION IN BID DOCUMENT | PRE-BID QUERY FROM BIDDERS | CLARIFICATION |
|--------------|---|---------------------------|--|--|
| 187 | CHILLED WATER TAPPING TO THE WATER COOLING SYSTEM | | We understand that the chilled water connection to the water cooling system facility shall be fed from chillers from hospital side and not from the chiller connected to hadron facility.Kindly confirm the same. | Connection to the cooling system is from the proposed new chillers connected to the HADRON facility |
| 188 | AIR COOLED CHILLERS PROPOSAL | | we propose air cooled chillers instead of water cooled chillers on the terrace of the HADRON building.Kindly advise. | Air cooled chillers may be proposed |
| 189 | AIR CONDITIONING SYSTEM | | We understand that the entire building to be air conditioned.Kindly confirm the same. | Yes. Entire building is to be air conditioned |
| 190 | AREA MATRIX | | Areas shall be conditioned as per the parameters given in the clause 3.1 page 35 of RFP-Volume 4.Kindly confirm. | As per parameters given in the RFP documents |
| 191 | VALVES | | Mentioned that all the valves shall be of PN16 rating.However by looking at the height of the building structure,PN10 rated valves can also serve the purpose.Kindly suggest. | Valves shall be of PN 10 rated. |
| 192 | LOW SIDE EQUIPMENT | | We understand that the entire low side items like air handling units,chilled water piping,ducting,insulation,air diffusion product,ventilation fans,HVAC equipment electrical panels and associated control/power cable, earthing,etc shall be in SPCL scope.Kindly confirm. | Yes. Under the scope of EPC developer. |
| 193 | ONCE THRU SYSTEM | | Please specify any areas that requires once thru system. | Not required |
| 194 | TOILET VENTILATION SYSTEM | | Toilets shall be exhausted at 15 ACPH whereas doorundercut shall provide the necessary fresh air.Kindly confirm. | Confirmed |
| 195 | DIRTY/CLEAN UTILITY | | Dirty and clean utility rooms shall be ventilated at 15 ACPH.Kindly confirm. | Confirmed |
| 196 | ELECTRICAL ROOM | | Electrical room shall be exhausted at 12 ACPH.Kindly confirm. | Confirmed |
| 197 | SMOKE EXTRACT SYSTEM | | Do we need to consider smoke extract system for all the air conditioning areas.Kindly confirm. | Smoke extract system in Hadron treatment area and nearby corridors is required |
| 198 | | LIST OF MAKES | Request to include the following additional makes for the HVAC items.Kindly confirm | Please follow make list mentioned in the RFP vol.4 |
| 199 | | | Chiller-Bluestar/Voltas | |
| 200 | | | Circulating pumps-Bell gosset/Matherplatt/Beacon | |
| 201 | | | M.S Pipe-Zenith | |
| 202 | | | Balancing Valve-Castle/Danfoss | |
| 203 | | | Grill/Diffuser/Louvers - Cosmos | |
| 204 | | | VCD/Fire Damper-Cosmos | |
| 205 | | | Closed cell elastomeric insulation-Supreme | |
| 206 | | | GI Sheets-Sail/Ispat | |
| 207 | | VFD | We understand that VFD are provided for Primary & Secondary pumps. Further we request to include make of Allen bradely & BCH in approved list. | Allen bradley may also be included in the list of approved makes. |
| 208 | | Humidity Control | AHU/FCU shall be 2 pipe system for chilled water. For humidity control, electrically heating strips may be used | Separate electric strip heater to be provided and there should be 6 row cooling coil |
| 209 | | Hepa Filter | For use of Hepa filters - treatment areas, we understand that it relates to Proton beam therapy suits only, whereas there is no surgical procedure, therefore we may opt for 2 stage filtration. | 2 stage filtration has to be considered. However provision for fixing Hepa filter (3 stage) has to be provided inside AHU. |
| LIFTS | | | | |
| 210 | | | Passenger Cum bed lift speed is 1.0 m/sec Passenger lift 1.0 m/Sec and service lift 0.5m/Sec | Speed shall be 0.75 m/sec. |

| SL. NO. | REFERENCE SECTION /CLAUSE OF BID DOCUMENTT | PROVISION IN BID DOCUMENT | PRE-BID QUERY FROM BIDDERS | CLARIFICATION |
|--|---|---------------------------|--|---------------|
| Sl. No. | General Queries during Prebid Meeting | | EPC Consultant's Response | |
| I. GENERAL | | | | |
| 1 | Dimensions of concrete in bunkers is not specified in many places | | M/s. IBA have agreed to provide the details of concrete along with dimensions based on their earlier experience in India. However, the final dimensions shall be as per AERB approvals. For estimate purpose, the dimension as provided in the drawing shall be followed | |
| 2 | Pre-approval status of site, cyclotron from AERB. | | a) TMC will followup with AERB for pre-approvals & provide the requirements for processing the pre-approval. b) HLL shall provide preliminary drawings for submission to AERB. | |
| 3 | Whether the Proton therapy equipments to be installed in the facility were type tested for India | | The responsibility on this will be with TMC & IBA | |
| 4 | Whether shielding is required for MRI and CT scan rooms to be provided in the facility | | Only standard rooms to be considered and the shielding is not part of EPC developer's scope. | |
| 5 | Whether lightning protection to be considered for the facility | | Lightning protection shall be considered by the EPC developer | |
| 6 | The Fire norms for the equipments to be supplied by IBA shall be provided | | The equipment/machine specific fire hazards will be provided by IBA. However, all statutory approvals from authorities shall be in the scope of EPC developer only. | |
| OTHER IMPORTANT POINTS FOR THE INFORMATION OF THE BIDDERS | | | | |
| 7 | It is informed that the concept plan provided along with RFP is indicative only and the EPC developer to develop his concept design without altering the functionality, flow, optimisation of area. The design and architecture shall be futuristic and unique. | | | |
| 8 | It is informed that the financial quotes shall indicate the taxes separately | | | |
| 9 | It is informed that any additional queries should be submitted within 3 days. So that it can be replied as part of minutes of the pre-bid meeting | | | |
| 10 | Solar panel of 10 kW capacity to be included in the scope of work, Refer RFP Vol 1 clause 2.3 | | | |
| 11 | Lightning protection system shall be included in the scope of work | | | |
| 12 | Access control system shall be provided for 3 nos of doors located between hadron treatment area and support facility in ground floor, apart from access control ssystem mentioned in IBD document | | | |
| 13 | Provide accoustic enclosure in water cooling room located in first floor to limit sound level at 50 dB maximum | | | |
| 14 | Only temporary Power supply shall be provided to Lifting cranes in gantry area. | | | |
| 15 | Statutory fees payable to local authorities for service connections shall be paid to EPC developer on submission of bills | | | |
| 16 | Supply chilled water from the chiller (PRIMARY SIDE) to the heat exchanger and supply the chilled water from the Heat Exchanger outlet (SECONDARY SIDE) to Cyclo Vault Area, PSR and ESS/BTS Area | | | |