

EOI for Setting up a Hadron Beam (Proton Therapy) Facility and Construction of Women & Children Cancer Wing for Tata Memorial Centre in Parel, Mumbai

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DISCLAIMER

HLL Lifecare Limited (HLL) has prepared this document as project consultant to Tata Memorial Centre (TMC), Mumbai, to give interested parties background information on the Project. While HLL and TMC have taken due care in the preparation of the information contained herein and believe it to be accurate neither Tata Memorial Centre (TMC) nor HLL Lifecare Limited, any of its authorities or agencies nor any of their respective officers, employees, agents or advisors gives any warranty or make any representations, express or implied as to the completeness or accuracy of the information contained in this document or any information which may be provided in association with it.

The information is not intended to be exhaustive. Interested parties are required to make their own inquiries and respondents will be required to confirm in writing that they have done so and they do not rely on the information in submitting an EOI. The information is provided on the basis that it is not binding on Tata Memorial Centre (TMC) or HLL Lifecare Limited, any of its authorities or agencies or any of their respective officers, employees, agents or advisors.

Tata Memorial Centre (TMC) reserves the right not to proceed with the Project or to change the configuration of the Project, to alter the timetable reflected in this document or to change the process or procedure to be applied. It also reserves the right to decline to discuss the Project further with any party expressing interest.

No reimbursement of cost of any type will be paid to persons or entities expressing interest.

SCHEDULE OF THE QUALIFICATION PROCESS

EVENT	DATE
Sale of EOI document begins	13.08.2014
Last date for sale of document	23.08.2014
Last date for submission of queries	20.08.2014
Last date for issue of addendum	22.08.2014
Last date for submission of completed EOI document	25.08.2014 at 15.00 Hrs
Date of Opening	25.08.2014 at 16.00 Hrs

Applications forms can be purchased from the following address. All queries shall be addressed to and completed Application forms shall be submitted before the specified date and time at the following address:

Deputy Vice President (T)

**HLL Lifecare Limited,
Infrastructure Development Division,
"Adarsh", T.C 6/1718(1),
Vettamukku, Thirumala PO,
Thiruvananthapuram- 695 006.**

Phone - 0471 236 5872/73

TeleFax - 0471 236 8144

Notice inviting Expression of Interest

**REQUEST FOR EXPRESSION OF INTEREST (EOI)
FROM FIRMS FOR PROVIDING ENGINEERING, PROCUREMENT AND
CONSTRUCTION (EPC) SERVICES
FOR SETTING UP A HADRON BEAM (PROTON THERAPY) FACILITY
AND CONSTRUCTION OF WOMEN & CHILDREN CANCER WING FOR
TATA MEMORIAL CENTRE IN PAREL, MUMBAI**

Tata Memorial Centre, Parel, Mumbai intends to set up **a HADRON BEAM (Proton Therapy) Facility & Construct Women & Children Cancer Wing for Tata Memorial Centre in Parel, Mumbai** on a turnkey basis.

Eligible firms of repute, having experience as EPC Developers and interested in taking up the above work on Turnkey basis are hereby invited to submit their "Expression of Interest" (EOI) as per the prescribed proforma to HLL Lifecare Limited, Infrastructure Development Division, "Adarsh", T.C 6/1718(1), Vettamukku, Thirumala PO, Thiruvananthapuram- 695 006 on or before 25.08.2014 at 15.00 Hrs in a sealed cover.

The EOI document can also be downloaded from the HLL website www.lifecarehll.com or website of TMC <http://tmc.gov.in/>

DEFINITIONS

“Applicant” means a reputed Indian firm having the required experience and who has purchased/downloaded the EOI document and applied for the same.

“Application” means the EOI submitted by an Applicant interested in the Project in the prescribed format

“HLL” means HLL Lifecare Limited, having its corporate office at “Latex Bhavan”, Poojappura, Thiruvananthapuram who is the Project Management Consultant to Tata Memorial Centre, Mumbai for the proposed development.

“EOI” means Expression of Interest

“TMC” means Tata Memorial Centre, Mumbai

“EPC” means Engineering, Procurement and Construction

“Project” means planning, designing, construction, equipping (other than Medical Equipment) and commissioning of the ***a Hadron Beam (Proton Therapy) Facility and Construction of Women & Children Cancer Wing for Tata Memorial Centre in Parel, Mumbai*** on a turnkey basis.

“Site” means the place where the works are to be executed.

SHORTLISTING OF EPC DEVELOPERS

FOR

***Setting up a Hadron Beam (Proton Therapy) Facility and Construction of
Women & Children Cancer Wing for Tata Memorial Centre in Parel,
Mumbai***

Part I – Enquiry Documents and Information for Applicants

**HLL Lifecare Limited,
Infrastructure Development Division,
“Adarsh”, T.C 6/1718(1),
Vettamukku, Thirumala PO,
Thiruvananthapuram- 695 006.
Phone - 0471 2365872/73
TeleFax - 0471 2368144**

INTRODUCTION

- 1.1 The Tata Memorial Centre is one of the country's most reputed institutions and an internationally recognized training Centre for cancer education and research. Tata Memorial Hospital is a post-graduate teaching centre and is affiliated to the Homi Bhabha National Institute (HBNI) (Deemed University) under Department of Atomic Energy, Government of India, and National Board of Examinations. Every year, about 80 post-graduate students register with the Centre for Master's or Doctorate courses. There are about 450 students undergoing training every year in medical, non-medical and Advanced PG Diploma in technical fields.
- 1.2 The Tata Memorial Hospital was initially commissioned by the Sir Dorabji Tata Trust on 28 February 1941 as a centre with enduring value and a mission for concern for the Indian people.
- 1.3 In 1952 the Indian Cancer Research Centre was established as a pioneer research institute for basic research - later called the Cancer Research Institute (CRI). In 1957 the Ministry of Health took over the Tata Memorial Hospital. The transfer of the administrative control of the Tata Memorial Centre (Tata Memorial Hospital & Cancer Research Institute) to the Department of Atomic Energy in 1962 was the next major milestone. The Tata Memorial Hospital and Cancer Research Institute merged as the two arms of the Tata Memorial Centre (TMC) in 1966 as a classic example of private philanthropy augmented by Government support with a mandate for Service, Education & Research in Cancer
- 1.4 TMC proposes to set up a Proton Therapy Facility and Construct Women & Children Cancer Wing in Parel, Mumbai at a total cost of about **Rs. 88 crores** excluding the cost of Medical equipment.
- 1.5 TMC proposes to get the Project executed on a turnkey basis through a reputed Indian entity fulfilling the specified eligibility criteria. M/S HLL Lifecare Limited on behalf of TMC shall handle the entire bid process and implementation of the project. The 'Design & Build' Agency will be selected through the process of short listing from the EOI applicants and then inviting 'Design & Build' proposal. The selected bidder shall be responsible for the complete range of activities including but not limited to the planning, design, construction, procurement, installation, testing and commissioning all Building systems, plant & machinery excluding medical equipment, and commissioning of the Facilities as per "Employer's Requirement". The responsibility of the implementing entity will be to hand over the completed Project fully tested and commissioned within 24 months and the stipulated cost as per the details in "Employer's Requirement" to be provided to the short-listed Applicants along with the Request for Proposal (RFP).
- 1.6 Reputed Indian Applicants with experience in planning, designing, civil construction, equipment procurement, installation and commissioning of similar Projects are invited to submit a detailed Expression of Interest (EOI) for the above Project in the prescribed format.

2 ELIGIBLE APPLICANTS AND ELIGIBILITY CRITERIA

- 2.1 Only reputed Indian firms are allowed to apply for this Project.
- 2.2 The firm should have implemented on 'Design & Build' basis building projects other than housing projects during the last seven years ending May 2014, according to any one of the following requirements.
 - a) Three projects each costing not less than Rs. 35 crores or
 - b) Two projects each costing not less than Rs 53 Crores or
 - c) One project costing not less than Rs 70 Crores.
- 2.3 In addition The firm must have substantially completed at least one Institutional building [as per Group C (Sub-division C-1) of NBC 2005] project costing not less than Rs. 35 crores on Design and Build Basis.
- 2.4 The firm should have In-House Infrastructure, manpower resources to carry out Design Services for Design and build Project.
- 2.5 The Firm should be profit making during each of the last three financial years, ending March 31, 2014. Financial data for previous 5 years shall be submitted as per format in Annexure 3.
- 2.6 Applicants shall not have a conflict of interest. All Applicants found to have a conflict of interest in this prequalification process shall be disqualified. Applicants shall be considered to have a conflict of interest, if:
 - (a) Applicants in two different Applications have controlling shareholders in common; or
 - (b) Submit more than one Application in this prequalification process.
 - (c) Applicant has participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of this prequalification.

3 CORRUPT OR FRAUDULENT PRACTICES

- 3.1 TMC requires that Applicants/Suppliers/Contractors under this contract, observe the highest standard of ethics during the procurement and execution of this contract. In pursuance of this policy, TMC
 - (a) Defines, for the purpose of these provisions, the terms set forth below:
 - i. "corrupt practice" means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution; and
 - ii. "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Employer, and includes collusive practice among Applicants/Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Employer of the benefits of free and open competition.

- (b) Will reject a proposal for award of work if it is determined that the Applicant recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.
- (c) Will declare a Applicant/Bidder ineligible, either indefinitely or for a stated period of time, to be awarded a contract / contracts, if it at any time determines that the Applicant/Bidder has engaged in corrupt or fraudulent practices in competing for, or in executing the contract.

4 AMENDMENT OF PREQUALIFICATION DOCUMENT

- 4.1 At any time prior to the deadline for submission of Applications, TMC either on its own or on request of the Applicant may amend the EOI Documents by issuing addenda.
- 4.2 An addendum issued under the sub-clause 4.1 shall be part of the EOI Documents and shall be communicated in writing to all the Applicants who have purchased the EOI documents from HLL and will also be posted at the website of HLL and that of TMC.
- 4.3 To give Applicants reasonable time to take an addendum into account in preparing their Applications, TMC may, at its discretion, extend the deadline for the submission of Applications.

5 PROCUREMENT & COST OF APPLICATION

- 5.1 This EOI document can be procured from the office of The Deputy Vice President (Technical), Infrastructure Development Division, HLL Lifecare Limited at the address mentioned in Clause 9.2 of this document. Alternatively it can be downloaded from the HLL website www.lifecarehll.com or website of TMC <http://tmc.gov.in/> .
- 5.2 The Applicants will pay a non-refundable amount of Rs. 20,000 (Rupees Twenty thousand only) towards the cost of Application and processing of documents. This amount will be paid through a demand draft in favour of “HLL Lifecare Limited” payable at Thiruvananthapuram, at the time of purchase of the document. In case the document is downloaded from the website, the demand draft shall be enclosed with the Application at the time of submission, failing which the Application shall be rejected.
- 5.3 The Applicant shall bear all costs associated with the preparation and submission of its Application HLL will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the prequalification process.

6 LANGUAGE OF APPLICATION

6.1 The language of the Application as well as the supporting documents shall be English.

7 SIGNING OF THE APPLICATION AND NUMBER OF COPIES

7.1 The Applicant shall prepare one original set of the prequalification documents and clearly mark it "ORIGINAL". The original of the Application shall be typed and shall be signed on all the pages by the person duly authorized to sign on behalf of the Applicant.

7.2 The Applicant shall submit one soft copy and 2 signed hard copies of the original Application and clearly mark them "COPY". In the event of any discrepancy between the original and the copies, the original shall prevail.

7.3 An authorized representative shall have the authority to conduct all business and incur liabilities related thereto for and on behalf of the Applicant, during the prequalification process and thereafter.

8 SEALING OF APPLICATION

The Original and the copies of the Application including the soft copy shall be sealed in a single large envelope and submitted on or before the last date and time for submission of the Application as specified in this EOI.

9 DEADLINE AND ADDRESS FOR SUBMISSION OF APPLICATIONS

9.1 Applications shall be submitted to HLL Lifecare Ltd., (internal consultant to TMC) by hand or through registered post or courier service at the address given below and not later than 15.00 Hrs on 25.08.2014. In respect of Applications received by post or courier, HLL shall not assume any responsibility for any delayed delivery.

9.2 The Application should be addressed to

The Dy. Vice President, (Technical),

HLL Lifecare Limited,

"Adarsh", T.C 6/1718(1),

Vettamukku, Thirumala P.O

Thiruvananthapuram, 695 006.

9.2 All envelopes shall be titled "**SETTING UP A HADRON BEAM (PROTON THERAPY) FACILITY AND CONSTRUCTION OF WOMEN & CHILDREN CANCER WING FOR TATA MEMORIAL CENTRE IN PAREL, MUMBAI**" and clearly marked in English with name of the Applicant.

9.3 TMC may, at its discretion, extend the deadline for the submission of Applications, in which case all rights and obligations of TMC, HLL and the Applicants subject to the previous deadline shall thereafter be subject to the deadline as extended.

10 LATE APPLICATIONS

10.1 Application received after the dead line for submission of Application shall not be

considered or opened under any circumstances.

11 CLARIFICATIONS OF APPLICATION

- 11.1 The Applicants shall be evaluated on the basis of the Application and the supporting documents submitted by them. TMC or HLL shall not be under any obligation to seek any further information or clarifications.
- 11.2 Without prejudice to Clause 11.1 above, in order to assist in the evaluation of Applications, TMC may, at its sole discretion, ask any Applicant for any clarification on its Application which shall be submitted within a stated reasonable period of time. Any request for clarification and all clarifications shall be in writing.
- 11.3 If an Applicant does not provide clarifications requested by the date and time set in TMC's or HLL's request for clarification, its Application is liable to be rejected.
- 11.4 It is clarified that Applicants shall not be required to submit on their own, additional information or material subsequent to the date of submission and such material if submitted shall be disregarded. It is therefore essential to ensure that all questions are answered fully on the proforma or otherwise. The pages of the EOI document and annexures and additional information if any submitted shall be numbered sequentially and signed. General responses such as "included in brochure" without specific item reference and information without summaries are unlikely to achieve a high assessment.

12 RESPONSIVENESS OF APPLICANTS

- 12.1 An Application, which is not responsive to the requirements of the prequalification documents and more particularly the Applications, which do not pass the initial filter shall be rejected forthwith.
- 12.2 Applicants should note that this EOI Enquiry and Questionnaire is intended to provide preliminary information. The information contained herein shall not in anyway be construed as binding on TMC, HLL, its agents, successors or assignees.
- 12.3 Applicants are advised that selection of turnkey developers for this Project shall be entirely at the discretion of TMC. Applicants shall be deemed to have understood and agreed that no explanation or justification of any aspect of the EOI process shall be given either by HLL or TMC and that the results of the EOI process shall be without any right of appeal to the Applicants whatsoever.
- 12.4 All documents and other information submitted by an Applicant to HLL shall become the property of TMC. Applicants are to treat all information as strictly confidential. HLL will not return any EOI document submitted to it by the Applicants.
- 12.5 HLL shall notify successful pre-qualified Applicants. It will not entertain any query or clarification from Applicant(s) who are not short-listed in the EOI process.

13 WITHDRAWAL OF APPLICATIONS

- 13.1 No modification or substitution of the submitted application shall be allowed.

13.2 An Applicant may withdraw its Application after submission, provided that written notice of the withdrawal is received by HLL before the due date for submission of Applications. In case an applicant wants to resubmit his application, he shall submit a fresh application following all the applicable conditions.

13.3 The withdrawal notice shall be prepared in Original only and each page of the notice shall be signed and stamped by authorized signatories. The copy of the notice shall be duly marked "WITHDRAWAL".

14 RIGHT TO ACCEPT/REJECT ANY OR ALL APPLICATIONS

14.1 TMC reserves the right to accept or reject any or all Applications and to annul the qualification process at any time without any liability or any obligation for such acceptance, rejection or annulment, without assigning any reasons.

14.2 Applicants should attach clearly marked and referenced continuation sheets in the event that the space provided in the EOI Document, Questionnaire or Annexure is insufficient.

14.3 In responding to the EOI Application, Applicants should demonstrate their capabilities, by providing material based on their experience, past performance, their personnel and financial resources

14.4 Applicant should at its own responsibility, risk and expenses visit and examine the site of the Project, its surroundings and obtain all information that may be necessary for preparing the Application for the above Project. HLL or TMC shall make no reimbursement of cost whatsoever incurred by the Applicant in the preparation of his Application.

14.5 It is expressly clarified that before submitting the EOI, the Applicant must have examined carefully the contents of all the documents and any failure to comply with any of the requirement of EOI document will be at the Applicant's risk.

15 APPLICANT'S RESPONSIBILITY

15.1 While submitting the Application the Applicant would submit a certification that it has:

- Made a complete and careful examination of requirements and other information set forth in this EOI Document
- Made a complete and careful examination of the various aspects of the Project including but not limited to:
 - The Project site
 - Existing facilities and structures
 - The conditions of the access roads and utilities in the vicinity of the Project Site
 - Conditions affecting transportation, access, disposal, handling and storage of

the materials.

- Clearances required for the Project and
- All other matters that might affect the Bidder's performance during the Construction and Operation of the Project if awarded

15.2 HLL or TMC shall not be liable for any mistake or error or neglect by the Applicant in respect of the above.

16 VALIDITY OF APPLICATIONS

16.1 Application shall be valid for a period of 180 days from the last date of submission of Applications.

16.2 TMC retains the right that in exceptional circumstances at its own discretion, it may ask the applicants to extend the validity of their application for a specified period. The Applicant not submitting the letter of extension of the validity period at that time shall not be further considered.

SHORTLISTING OF EPC DEVELOPERS

FOR

Setting up a Hadron Beam (Proton Therapy) Facility and Construction of Women & Children Cancer Wing for Tata Memorial Centre in Parel, Mumbai

Part II – PROJECT DETAILS AND SCOPE OF WORK

**HLL Lifecare Limited,
Infrastructure Development Division,
“Adarsh”, T.C 6/1718(1),
Vettamukku, Thirumala PO,
Thiruvananthapuram- 695 006.**

Phone - 0471 2365872/73

TeleFax - 0471 2368144

PART II: PROJECT DETAILS AND SCOPE OF WORK

1 THE PROJECT DETAILS AND SCOPE OF WORK:

1.1 The Project will come up in the Haffkine Institute land adjacent to the Tata Memorial Hospital in Parel, Mumbai, at an estimated cost of approximately Rs. 88 Crores including the cost of furniture & fixtures but excluding the cost of medical equipment. The Project is expected to be completed over a period of 24 months from the date of award of the work including the time required for pre-construction activities including obtaining statutory approvals. The proposed Project includes construction of separate buildings for;

- ❖ A PROTON THERAPY FACILITY
- ❖ Women and Children Cancer Wing (OPD)

Brief details of the various elements of the proposed Project are presented in the following section.

1.2 The activities required for completion of the Project on a turnkey basis include interalia

- Master planning of the campus including the Hadron Ion (Proton therapy) Facility to come up in the near future with in-patient facility.
- Planning of the Facilities including functional analysis, workflow analysis etc.
- Design development including preparation of architectural brief, design concept, concept for services etc.
- Detailed design engineering including architectural design and construction documents, structural engineering, electrical engineering, heating ventilation and air conditioning plans, medical gases and manifold plan, plan for the central sterile services department, communication and networking plan, fire detection and protection plan etc.
- Building construction and installation of all services
- Procurement and installation of furniture and fixtures
- Project Management to ensure completion of Project as per the specified timelines
- Compliance with Environmental and Energy efficiency norms and obtaining at least 3 star GRIHA rating.
- Handing over of the facilities after fulfilling all the obligations under “Employer’s Requirement”
- Getting approvals/permissions/permits of statutory/local/governmental agencies

1.3 The details of the various components of the Project are as follows:

1.3.1 HADRON BEAM (Proton Therapy) Facility:

1.3.1.1 The architectural design of the proton therapy facility shall be based on a modular concept which in turn will be based on the Vendor requirements incorporating without

changing the base allocation for technical areas needed for the proton therapy equipment Treatment rooms and other clinical areas according to requirements of TMC. The vendor to be selected by TMC will support the Design Team with relevant information in the form of documents and drawings, and by participating in design and construction meetings.

- 1.3.1.2** Proton therapy systems for medical tumor irradiation use particle accelerators such as cyclotrons as a powerful radiation source. These installations must therefore comply with AERB regulations for radiation protection, and the facility must have an operating license for the cyclotron. Numerous requirements may need to be fulfilled in order to obtain an operating license and construction permit.
- 1.3.1.3** Approval of radiation safety by local regulatory authorities is critical for an efficient construction process. Therefore, it is important that the EPC developer obtains the required permits for the new facility. The vendor to be selected by TMC will support the EPC developer with relevant information in the form of documents and drawings for this purpose.
- 1.3.1.4** The cyclotron and gantry will be inserted through openings in the roof above the equipment. The equipment is lifted into place and positioned in the room by mobile telescope cranes located by the outside wall closest to the roof opening. 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. The rigging setup for each gantry will take approximately two weeks. The roofs can be closed permanently after the gantry installation is complete.
- 1.3.1.5** The EPC developer must provide internal cranes detailed specifications for which will be supplied by the selected vendor during the project implementation.
- 1.3.1.6** During the building design phase, the door and wall opening requirements will be decided together with the selected vendor in order to conform to standard dimensions.
- 1.3.1.7** Stability of the walls and floors The dipole magnets (including the energy selection system) and mobile shield blocks will be brought into the building through the entrance area on the ground level. No mobile shielding in the cyclotron room can be completed until all proton therapy equipment systems have been brought into the building. The transport of all local shielding into the cyclotron / energy selection system area must be coordinated with Equipment Vendor. The free ceiling height in the entrance and energy selection system area may not be reduced by other installations by the EPC developer. All technical building equipment must be removable so that the system can be transported out of the building in the event of damage.
- 1.3.1.8** The floor in the cyclotron room and in the entire beam line area must be capable of bearing rolling loads of up to 13 metric tons to support magnets and mobile shielding elements.

- 1.3.1.9** The feet of the cyclotron must rest on steel floor plates that must be embedded into the floor slab and then cemented into place. Each cyclotron foot has a load of 40 metric tons. The steel plate must be positioned exactly horizontally in position and angle.
- 1.3.1.10** The dipole magnets of the energy selection system and the beam transport system represent a load of approximately 8-13 metric tons (without local shielding) on the floor.
- 1.3.1.11** The feet of the gantry will transmit a total load of 280 metric tons at two locations. The floor of the gantry rooms (approximately 380 cm (150 in) below treatment floor level) must be capable of bearing loads of up to 50 kN/m²
- 1.3.1.12** A load bearing capacity of up to 2 metric tons must be guaranteed for the area from the gantry maze to the entrance for transport.
- 1.3.1.13** All electrical rooms must be equipped with computer room floors. On the upper level, the load bearing capacity must be 50 kN/m² (1,050 lbs/ft²). All cabinets require frames, some cabinets' frames must support weights up to 5 metric tons.
- 1.3.1.14** Ground reinforcements to install mobile cranes of up to 800 metric tons for rigging of heavy components will be provided by the EPC developer, near the outside walls of the respective equipment room and near the entrance to the workshop.
- 1.3.1.15** Several structural elements must be provided by the EPC Developer as per vendor requirements and embedded into concrete walls, floors and ceilings that will be used for maintenance and installation purposes. These include rails, installation connection plates, and steel plates that can bear loads of up to 13 metric tons.
- 1.3.1.16** Water pipes will be embedded in the concrete to provide cooling water in all electrical rooms, gantry rooms, the cyclotron pit, and the beam line area. The pipes must be encased in a vibration damping and thermal insulating material. Other media supply lines that are embedded in concrete (such as technical compressed air, room air supply, and exhaust, etc.) must be enclosed in vibration damping material.
- 1.3.1.17** After the installation and alignment of the proton therapy equipment, the differential settling of the building cannot exceed specific limits outlined for proper operation of the proton therapy equipment. The examination of the settling characteristics during the construction of the building shell and after installation of equipment shall be the responsibility of the EPC developer. The differential settling over a length of 10 m (33 ft) shall not exceed 0.2 mm/year.
- 1.3.1.18** It is the EPC DEVELOPER's responsibility to design the building according to the settlement requirements and to monitor the building settlement rate before proton therapy equipment is delivered.
- 1.3.1.19** Civil engineering tolerances shall conform to special structural requirements referred to as necessary by the Equipment Vendor. Walls, ceiling heights, and floor levels must be realized with a tolerance of ± 1 cm (1/2 in) with respect to a single

reference point in the facility. The evenness of the floor in the cyclotron area must fulfill the requirements of DIN 18 202, whereby gradients can be included for drainage purposes. If no tolerances are indicated, DIN 18 202, Section 4 must be applied analogously.

- 1.3.1.20** Some installations by Equipment Vendor, such as stands for magnets, floor plates, alignment markers, and cable pulling, can be performed before the building is ready to accept equipment. These tasks will be coordinated by the EPC DEVELOPER on a regular basis during civil works. For these tasks, the concrete must be set, and the facility must be dry and free of construction material. These tasks can be performed prior to floor and wall finishing, if necessary.
- 1.3.1.21** Prior to equipment installations, all surface finishes (walls, ceilings, and floors) must be completed. In most cases, this means dust-repellent surfaces and appropriate coating of the surfaces. All rooms and surfaces must be clean and dust-free. After equipment has been brought into the respective room, no more dust may be generated. If additional work that generates dust needs to be completed after this point, then the work must be correctly scheduled, measures must be equipment, and all equipment must be sufficiently protected at all times.
- 1.3.1.22** All building mechanical, electrical, and pumping systems must be installed and ready for operation within one month after “ready for equipment” (RFE).
- 1.3.1.23** In the radiation protection area, the floor shall be covered with smooth composite floor pavement and sealed with a polyurethane or epoxy layer. The floor shall be smooth, free of pores and dust, water repellent, and have no visible irregularity. Floor and wall finishing must be resistant to abrasion and should be water washable. The sealing must also be completed in the cyclotron pit. Vertical surfaces and feed-through channels have less-stringent requirements.
- 1.3.1.24** The floors in the electrical rooms must be treated with a dust- and water-repellent coating. The coating must be sufficient to withstand installation of cable trays and double floors without degradation. An access floor (computer floor) must be installed in all electrical rooms.
- 1.3.1.25** The floors, walls, and ceilings in all rooms in which the proton therapy equipment is installed must be dust-and water-repellent.
- 1.3.1.26** The painting shall be in white in order to allow contamination to be recognized more easily and to ensure better light conditions.
- 1.3.1.27** At RFE HVAC, electrical supply, and cooling water, etc., must be fully operational.
- 1.3.1.28** The EPC DEVELOPER is responsible for the installation and provision of the low-voltage electrical power supply and emergency backup power units. Two possibilities exist: 400 VAC, 50 Hz or 480 VAC, 60 Hz.

1.3.1.29 Compliance with the power quality limits listed in the most recent edition of EN 61000-2-2 is required. If other sections of EN 61000 that are valid at the time of RFE have more stringent requirements, then the more stringent requirements from the other sections will apply.

1.3.1.30 Voltage and line frequency will be agreed upon during contract acceptance and be selected based on the locally available options.

1.3.1.31 All cable trays and conduits are provided by the EPC DEVELOPER, including those for equipment based on vendor requirements. Cable trays and electrical conduits will pass through radiation shielding walls in such a manner that the function of the shielding wall is not reduced below permissible limits.

1.3.1.32 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.

1.3.2 Women & Children Cancer Wing OPD:

1.3.2.1 The Building shall have a total built up area of approximately 4500 Sq.m in 6 floors. Each floor (up to the Third floor) shall have Private OPD on one side and General OPD on the other with the waiting areas for each OPD located on either end of the building.

1.3.2.2 The design shall incorporate provision of pneumatic tube system for the building. A pharmacy shall also be provided in the ground floor.

1.3.2.3 Each OPD shall have 7 consulting rooms on either side of a centrally located row of rooms for Blood collection, injections, emergency care, site specific needs such as mammography, colposcopy, etc., and Joint Clinic.

1.3.2.4 One floor shall be dedicated for **PAEDIATRIC OPD with Paediatric Haemato-Lymphoid OPD on one side and Paediatric Solid Tumour on the other side.** Blood Collection Room, Joint Clinic / Counselling Room, Computer / Study Room for Children, Dressing / Procedure Room and Injection Room with Hood shall be provided in between the two OPDs.

1.3.2.5 Another floor shall be dedicated to **Chemotherapy daycare and Minor OTs along with step-down ICU.** The private and general daycare areas shall have 30 beds each and segregated with separate waiting areas. The daycare beds of Private & General categories shall be on either side of an admixture facility along with Nursing station which would be in the middle. A hatch will open into both the daycares for passing on the admixed drugs.

1.3.2.6 A treatment room for the nurses on each side of daycare (private and general) for blood/antibiotics/saline etc along with Doctors' duty room and a few computer terminals shall be provided.

1.3.2.7 The Fourth floor shall have 5 Major Operation Theatres (one of them for minimal access surgery), Surgical ICU, with CSSD and other support services in the fifth floor.

1.3.2.8 The Fifth floor shall also have all the academic offices and an auditorium.

1.3.3 External Development

- ❖ Both the buildings shall be combined into a single structure.
- ❖ HT supply, Substation, DG back up.
- ❖ Static water tank, fire pumps, yard hydrants
- ❖ Water supply and sanitary installations
- ❖ Bio medical waste disposal
- ❖ Adequate Parking lot.
- ❖ Roads, foot paths and Landscaping
- ❖ Rain water harvesting
- ❖ Compound lighting

SHORTLISTING OF EPC DEVELOPERS

FOR

***Setting up a Hadron Beam (Proton Therapy) Facility and Construction of
Women & Children Cancer Wing for Tata Memorial Centre in Parel,
Mumbai***

Part III – PROFORMA APPLICATION FORMS

**HLL Lifecare Limited,
Infrastructure Development Division,
"Adarsh", T.C 6/1718(1),
Vettamukku, Thirumala PO,
Thiruvananthapuram- 695 006.
Phone - 0471 2365872/73
TeleFax - 0471 2368144**

Part III - PRO-FORMA APPLICATION FORM

PRO-FORMA LETTER OF APPLICATION (on Firm's Letter Head)

The Deputy Vice President, (Technical),
HLL Lifecare Limited,
Infrastructure Development Division,
"Adarsh", T.C 6/1718(1),
Vettamukku, Thirumala PO,
Thiruvananthapuram- 695 006

(Applicant to provide date and reference)

Dear Sir,

APPLICATION FOR PRE-QUALIFICATION FOR SETTING UP A HADRON BEAM (PROTON THERAPY) FACILITY AND CONSTRUCTION OF WOMEN & CHILDREN CANCER WING FOR TATA MEMORIAL CENTRE IN PAREL, MUMBAI

We, the undersigned, apply to be pre-qualified for the referenced contract and declare the following:

- (a) We are duly authorized to represent and act on behalf of _____ (hereinafter the "Applicant")
- (b) We certify that all statements made and information supplied in enclosed questionnaire Forms "1 to 5" and annexures "1 to 4" are true and correct.
- (c) We certify that we have submitted all information and details necessary for this EOI document and have no further pertinent information to submit.
- (d) We have examined and have no reservations to the EOI Document including Addenda No(s) _____.
- (e) We, for any part of the contract resulting from this pre-qualification, do not have any conflict of interest
- (f) We are attaching with this letter, the copies of original documents defining: -
 - i) the Applicant's legal status;
 - ii) its principal place of business; and
 - iii) its place of incorporation (if Applicants are corporations); or its place of registration (if Applicants are partnerships or individually owned firms).

- (g) We further declare that we have not engaged any agent or middleman for this short listing process or the tenders arising from it. We have not paid / will not be paying any commissions, gratuities or fees with respect to the EOI process.
- (h) TMC or HLL and/or its authorised representatives are hereby authorised to conduct any inquiries or investigations to verify the statements, documents and information submitted in connection with this Application, and to seek clarification from our bankers and clients. This Letter of Application will also serve as authorisation for any individual or authorised representative of any institution referred to in the supporting information, to provide such information deemed necessary and as requested by TMC / HLL.
- (i) **TMC** / HLL and/or its authorised representatives may contact the following nodal persons for further information on any aspects of the Application:

Contact 1	Name	Telephone 1	E Mail
	Address		

- (j) This Application is made in the full understanding that:
- i) Applications by short-listed Applicants will be subject to verification of all information submitted for prequalification;
- ii) TMC reserves the right to:
- Reject or accept any or all Applications, cancel the prequalification process without any obligation to inform the Applicant about the grounds of same;
- (k) The undersigned declare that the statements made and the information provided in the duly completed Application are complete, true, and correct in every detail. We also understand that in the event of any information furnished by us being found later on to be incorrect or any material information having been suppressed, the following action can be taken:
- i. Our name shall not be considered in the short-listing process
- ii. Any tender submitted by us on the basis of short-listing may not be considered.

If any tender from us is accepted and a contract awarded to us on the basis of our short-listing, the tender acceptance may be withdrawn and the contract awarded to us cancelled with out any financial claim / Arbitration request from our side.

NAME.....

In the Capacity of

Signed

Duly authorized to sign the Application for and on behalf of

Date

SHORTLISTING OF EPC DEVELOPERS

FOR

Setting up a Hadron Beam (Proton Therapy) Facility and Construction of Women & Children Cancer Wing for Tata Memorial Centre in Parel, Mumbai

Part IV – SELECTION QUESTIONNAIRE

**HLL Lifecare Limited,
Infrastructure Development Division,
“Adarsh”, T.C 6/1718(1),
Vettamukku, Thirumala PO,
Thiruvananthapuram- 695 006.

Phone - 0471 2365872/73
TeleFax – 0471 2368144**

Part IV - SELECTION QUESTIONNAIRE

Notes:

1. Each page of the Questionnaire and contents of forms shall be signed by the Applicant.
2. This entire Questionnaire forms shall be completed in all respects.
3. Answers to the questions relating to the various forms shall be incorporated in the respective forms only (i.e. form 2 (replies to questions 2.1 to 2.3) will be included in the contents of form 2).
4. In the box

Y	N
---	---

 'Y' denote Yes and 'N' denote No. Please tick-mark whichever is applicable.
5. The pages of the EOI Document submitted shall be numbered sequentially and the page number of each answer should be noted against the respective item below
6. Any explanation or additional information to a question in a form shall be given on separate sheets, which are to be clearly referred to as being in response to the relevant question of a form and the reference of the same shall be indicated in the form also against the relevant question.

FORM 1- ORGANIZATIONAL INFORMATION

1.1	Project for which EOI is called: SETTING UP A HADRON BEAM (PROTON THERAPY) FACILITY AND CONSTRUCTION OF WOMEN & CHILDREN CANCER WING FOR TATA MEMORIAL CENTRE IN PAREL, MUMBAI
1.2	State the structure of the Applicant's organisation (Applicants to complete / delete as appropriate) Individual company or Partnership firm Joint Venture
1.3	Provide the following: Name of Company or firm: Legal status: (e.g. incorporated private company, unincorporated business, etc.) Registered address: Year of Incorporation..... Principal place of business: Contact person: Contact person's title: Address, telephone, facsimile number and e-mail ID of contact person:
1.4	Date of incorporation of organisation. Names and titles of Directors or partners. a) Has the company or firm or any partner of the group ever failed to complete any work awarded or has been levied liquidated damage for delay in completion of work? If Yes give explanation. <input type="checkbox"/> Y <input type="checkbox"/> N a) Has the firm or company or any partner of the group been blacklisted by any Government Department / PSU. If Yes give explanation. <input type="checkbox"/> Y <input type="checkbox"/> N b) Has the firm has ever been convicted by a court of law or is there any pending litigation? If Yes give explanation (Annexure 5 for Pending Litigation). <input type="checkbox"/> Y <input type="checkbox"/> N c) Has the applicant ever required to suspend any project for a period of more than 6 months continuously after commencement? If Yes give explanation. <input type="checkbox"/> Y <input type="checkbox"/> N

FORM 2: PERFORMANCE RECORD

2.1	<p>State the number of years the Applicant has been undertaking work similar in scope and nature to the works as defined in Clause 2.2 & 2.3 of eligibility criteria.</p> <table border="1"> <thead> <tr> <th data-bbox="347 474 938 508">Name</th> <th data-bbox="938 474 1378 508">No. of years</th> </tr> </thead> <tbody> <tr> <td data-bbox="347 520 938 590">(1)</td> <td data-bbox="938 520 1378 590">.....</td> </tr> <tr> <td data-bbox="347 602 938 672">(2)</td> <td data-bbox="938 602 1378 672">.....</td> </tr> <tr> <td data-bbox="347 684 938 753">(3)</td> <td data-bbox="938 684 1378 753">.....</td> </tr> <tr> <td data-bbox="347 766 938 793">....</td> <td data-bbox="938 766 1378 793">.....</td> </tr> </tbody> </table>	Name	No. of years	(1)	(2)	(3)
Name	No. of years										
(1)										
(2)										
(3)										
....										
2.2 (a)	<p>Performance Record</p> <p>Applicants should carefully scrutinise the Project description for SETTING UP A HADRON BEAM (PROTON THERAPY) FACILITY AND CONSTRUCTION OF WOMEN & CHILDREN CANCER WING FOR TATA MEMORIAL CENTRE IN PAREL, MUMBAI as elaborated in Scope of Work in this document and compile a detailed list indicating their previous experience of works, their volume and complexity, completed during the last seven years relating to planning, design, construction, equipment procurement, installation and commissioning for similar Projects as per Clause 2.2 & 2.3 of eligibility criteria.</p> <p>Information and documentary evidence associated with the performance and relevant experience of the Applicant shall be clearly referenced and enclosed in Form 2. The Applicant will give the above details of works in descending order of financial year. Use Annexure 1 for the purpose of 2.1 (a)</p>										

2.2 (b).	<p>Work in Hand. Applicants should indicate, in the form below, details for each Project / contract / commitment which is in hand or anticipated to be in hand as on the 31/05/2014 and the expected year-wise value of completion of the balance works in the next two years. (Applicants are required to provide this information in Annexure 2).</p>						
2.3.	<p>Has the Applicant executed in last 7-years, the following works:</p> <table border="1" data-bbox="363 510 1276 707"> <tr> <td data-bbox="363 510 1081 562">Planning of Institutional Buildings</td> <td data-bbox="1081 510 1276 562">YES/NO</td> </tr> <tr> <td data-bbox="363 562 1081 615">Designing of Institutional Buildings</td> <td data-bbox="1081 562 1276 615">YES/NO</td> </tr> <tr> <td data-bbox="363 615 1081 707">Construction and Commissioning of an Institutional Building project</td> <td data-bbox="1081 615 1276 707">YES/NO</td> </tr> </table>	Planning of Institutional Buildings	YES/NO	Designing of Institutional Buildings	YES/NO	Construction and Commissioning of an Institutional Building project	YES/NO
Planning of Institutional Buildings	YES/NO						
Designing of Institutional Buildings	YES/NO						
Construction and Commissioning of an Institutional Building project	YES/NO						

FORM 3. STAFF INFORMATION

3.1	<p>Staff: Applicants should indicate the number of staff employed (total and at specified offices). Specify number of each member’s managerial, technical and supervisory staff. This information should be only in respect of regular employees who are for more than six month with the Applicant. Name of Applicant</p>				
	Hospital Planner / Architects (1)	Managerial (2)	Technical & Engineers (3)	Procurement specialists (4)	Supervisory staff (5)
3.2	<p>b) For the key positions essential to Project implementation, the Applicant should provide CVs incorporating, interalia, detailed data on their experience, and academic and professional qualifications. Such candidates should have been regular employees with the Applicant for at least 6 months. (Use Annexure 4)</p>				

FORM 4- FINANCIAL INFORMATION

4.1	Applicants should enclose documents, including Banking Reference, to demonstrate that they have access to, or have available, liquid assets, lines of credit and other financial means sufficient to meet the required cash flow, after meeting their commitments for other contracts and other liabilities, as indicated in Annexure 3. Financial information to be provided as per requirement
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FORM 5- QUALITY AND COST CONTROL INFORMATION

5.1	Quality Assurance Program:		
	Do Applicants currently maintain an In-house Quality Assurance Programme?	YES/NO	Page No. _____
	If yes, give details.	YES/NO	Page No. _____
	Is your firm ISO 9001 certified?	YES/NO	Page No. _____
	Have you had any of your recent Projects LEED or GRIHA rated?	YES/NO	Page No. _____
	If yes, give details.	YES/NO	Page No. _____
5.2	<ul style="list-style-type: none"> Do you have cost control mechanism in your organisation? If yes, give details. 		

ANNEXURE 1

CERTIFIED SPECIFIC EXPERIENCE CHART
Completed projects

Name and location of the project	Client's name and address	Value of the project	Duration of the project	Completed in year	Exact role*	Whether by Self or as a consortium member	If done in consortium specify the percentage share	Litigation / Arbitration (if any)	Pages in which details are provided
A	Building Projects (other than Housing projects)								
B	Institutional Buildings as per Group C (Sub-division C-1) of NBC 2005.								

* Applicants are required to provide their role in the projects as follows:

- a- project planning
- b- project designing
- c- project construction
- d- any other (please provide details)

Certified that the above information provided by us is true and correct. In the case TMC detects any misrepresentation in the above our application is liable to be rejected.

Authorised Signatory

For and on behalf of _____

**CERTIFIED SPECIFIC EXPERIENCE CHART
ONGOING PROJECTS**

Name and location of the project	Employer's name and address	Value of the project	Duration of the project	Expected Completion in year	Exact role*	Whether by Self or consortium member	If done in consortium specify the percentage share	Pages in which details are provided
A	Building Projects (other than Housing projects)							
B	Institutional Buildings as per Group C (Sub-division C-1) of NBC 2005.							

* Applicants are required to provide their role in the projects as follows:

- a- project planning
- b- project designing
- c- project construction
- d- any other (please provide details)

Authorised Signatory
For and on behalf of _____

Financial Situation

Applicant's legal name Date
 Page of pages

	Financial Data for Previous 5 Years [Indian Rupees]				
	Year 1:	Year 2:	Year 3:	Year 4:	Year 5:
Total Assets					
Current Assets					
Total Liabilities					
Current Liabilities					
Profits Before Taxes					
Profits After Taxes					
Net Worth [= 1 - 3]					
Working Capital [=2 - 4]					
Return on Equity [=5 / 7 of prior year]					

- Attached are copies of the audited balance sheets, including all related notes, income statements for the last three years, as indicated above, complying with the following conditions.
 - All such documents reflect the financial situation of the Applicant or partner to a JV, and not sister or parent company.
 - Historic financial statements must be audited by a certified accountant
 - Historic financial statements must be complete, including all notes to the financial statements.
 - Historic financial statements must correspond to accounting periods already completed and audited (no statements for partial periods will be accepted).

Annexure 4

Applicant's legal name

Date.....

Page of pages

Key Staff Bio data

Name of Applicant			
Position			
<i>Candidate Information</i>	Name of Candidate	Date of Birth	
	Professional Qualifications		
<i>Present employment</i>	Name of Employer		
	Address of Employer		
	Telephone	Contact (manager / personnel officer)	
	Fax	Email ID	
	Job title of candidate	Years with present employer	

Summarize professional experience over the last 15 years, in reverse chronological order. Indicate particular technical and managerial experience relevant to the Project

<i>From</i>	<i>To</i>	<i>Company / Project / Position / Relevant technical and managerial experience</i>

ANNEXURE- 5: Pending Litigation

Applicant's legal name Date.....
 Page of pages

Applicant must fill in this form

Pending Litigation		
<p>■ No pending <input type="checkbox"/> litigation</p> <p>■ Pending Litigation in terms of arbitration, litigation etc. is indicated <input type="checkbox"/> below</p>		
Year	Project Identification and Matter in Dispute	Value of Pending Claim in INR equivalent
	Project Name: Name of Employer Address of Employer Matter in Dispute	
	Project Name: Name of Employer Address of Employer Matter in Dispute	
	Project Name: Name of Employer Address of Employer Matter in Dispute	

SHORTLISTING OF EPC DEVELOPERS

FOR

Setting up a Hadron Beam (Proton Therapy) Facility and Construction of Women & Children Cancer Wing for Tata Memorial Centre in Parel, Mumbai

Part V - PRE-QUALIFICATION EVALUATION CRITERIA

**HLL Lifecare Limited,
Infrastructure Development Division,
"Adarsh", T.C 6/1718(1),
Vettamukku, Thirumala PO,
Thiruvananthapuram- 695 006.
Phone - 0471 2365872/73
TeleFax - 0471 2368144**

Part V -EVALUATION CRITERIA

5.1 INTRODUCTION

This Part V, Evaluation Criteria contains the initial filters and broad criteria based on which the applicants shall be evaluated.

5.1.1 INITIAL FILTER

The initial filter is as per checklist below.

INITIAL FILTER OF APPLICANTS – CHECKLIST

Name of Applicant:

No.	Criteria	Yes	No
1	Has the Applicant abandoned any work in the last seven years or has it been blacklisted by any Government department / PSU or have any of its contracts terminated for failure to perform?		
2	Has the Applicant involved in frequent litigations in the last seven years?		
3	Has any misleading information been given in the Application?		
4	Has the Applicant suffered bankruptcy / insolvency in the last seven years?		
5	Is the Net Worth negative?		
6	Is the Applicant not having the required bid capacity for the work?		
7	Has the Applicant not completed works of developing, procuring and commissioning of Institutional building projects according any of the following criteria; three works costing 35 crores each or two works costing Rs. 53 crores each or one work costing 70 crores, and in addition not substantially completed work of executing developing, procuring and commissioning of Institutional building costing at least Rs. 35 crores?		

Note: A “YES” answer to any of the questions will disqualify the Applicant.

The Applicants who do not pass the initial filter test shall not be evaluated further.

5.3 EVALUATION CRITERIA

Applicants who pass the Initial Filter Test will be evaluated further based on their financial standing, technical and organizational capability and past experience and track record. The Applicants are required to submit all the necessary details including certificates from the client agencies in support of their application.