



**INVITATION
FOR
“EXPRESSION OF INTEREST” (EOI)**

**FOR
KNOW HOW TRANSFER
OF
6 MeV MEDICAL LINEAR ACCELERATOR SYSTEM
LEADING TO TRANSFER OF TECHNOLOGY**

Ref No.: SMR/MSD/EOI/2022-2023/01

Due Date: 11/04/2023

*Society for Applied Microwave Electronics Engineering & Research
IIT Campus, Powai, Mumbai 400 076*

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1.0 EXPRESSION OF INTEREST

SAMEER invites Indian companies to submit their “Expression of Interest (EOI)” for Know How transfer of 6 MeV Medical Linac System leading to Transfer of Technology.

The EOI is to be submitted on the letter head of the company along with all the information as per format given in Annexure ‘A’.

- 1.1 The industries will be shortlisted based on the information furnished as per Annexure – A and assessment of the manufacturing facilities, sales & marketing, service & maintenance network, financial capability and general company profile by the experts’ committee and or any other criterion SAMEER deems fit.
- 1.2 Expression of Interest should clearly spell out the extent of interest as per the scope of work.
- 1.3 The submission of the EOI shall include all such documents that are specified herein to prove the authenticity of the bidder’s offer and any claim made therein. The burden of proving such claims shall lie with the bidder.
- 1.4 All cost and expenses associated with submission of an EOI shall be borne by the company / bidder while submitting the EOI and SAMEER shall have no liability, in any manner in this regard, or if it decides to withdraw, rescind or terminate the process of short listing for any reason whatsoever.

2.0 INSTRUCTIONS TO THE BIDDERS

Society for Applied Microwave Electronics Engineering & Research - (SAMEER herein after referred as ‘Authority’) invites applications for the purpose of “Know how Transfer of 6 MeV Medical Linear Accelerator leading to Technology Transfer” from Indian industries.

- 2.1 The information to be furnished for Expression of Interest is given in Annexure –A. Interested parties are required to submit the complete EOI along with Annexure-A duly filled in with all relevant supporting documents.
- 2.2 A Pre-bid meeting of all the Bidders will be convened on 15th March 2023 . The purpose of this meeting will be to clarify the requirements as envisaged by the Authority and also to address the queries if any.
- 2.3 The EOI’s submitted should be sealed properly and marked “EOI for Medical Linac” so as to reach the following address on or before 11th April 2023

Purchase Officer
SAMEER, IIT campus
Powai
Mumbai –400076

The EOI bids shall be opened on 12th April 2023

SAMEER may at its sole determination, extend this deadline for the submission of the EOI's by amending the EOI documents, in which case all rights and obligations of SAMEER and bidders previously subject to the deadline will thereafter be subjected to the revised deadline as extended.

- 2.4** To assist in the examination, evaluation and comparison of EOI, SAMEER at its sole discretion can ask the bidder for the clarification of its EOI. The request for clarification and the response shall be in writing. However, no post submission of the EOI, clarification at the initiative of the bidder shall be entertained. Authority reserves the right to visit the facilities of the bidders, if required.
- 2.5** Bidders if they choose, may prior to submitting their Expression of Interest, visit SAMEER, with prior appointment.
- 2.6** Bidders may be called for making a presentation before the appropriate committee of SAMEER.
- 2.7** Authority will issue appropriate draft agreement giving detailed terms and conditions to short-listed bidders (if any) for their response.
- 2.8** At any time before the submission of an EOI, the Authority may, at its sole discretion, carry out amendment(s) to this EOI document and/or the schedules. The amendment will be made available on our website (www.sameer.gov.in) and will be binding on the bidders. The Authority may at its sole discretion extend the deadline for the submission of proposals/bids.
- 2.9** The Authority reserves the right to accept or reject any applications without assigning any reasons thereof. Any and all the decisions in this regard by the Authority shall be final and binding.
- 2.10** Bids that are incomplete in any respect or those that are not consistent with the requirements as specified in this document or those that do not adhere to formats, wherever specified may be considered non-responsive and may be liable for rejection even otherwise at SAMER's determination and no further correspondences will be entertained with such bidders.
- 2.11** Canvassing in any form would disqualify the applicants/bidders.
- 2.12** For any clarifications on the Expression of Interest document, the following may be contacted through e-mail soumya@sameer.gov.in
- 2.13** The bidder is required to download the EoI document from the SAMEER website. The complete document is required to be signed on each page along with the company / bidder's seal and submitted along with the eligibility criteria.

**Director General
SAMEER**

3.0 INTRODUCTION

Society for Applied Microwave Electronics Engineering and Research (SAMEER) is an autonomous R & D institution under Ministry of Electronics and Information Technology (MeitY), Government of India. In its Five centers located at Mumbai, Chennai, Kolkata, Visakhapatnam and Guwahati, SAMEER pursues application-oriented research and development activities in the areas of Medical Linear Accelerator, RF and Microwave systems, Photonics, EMI/EMC, Antenna and Electromagnetics, Communications, Thermal Engineering, radar based Atmospheric Instrumentation and related software. SAMEER with focus on application-oriented R & D, undertakes projects, customized product development and design consultancy in these specialized areas.

SAMEER in collaboration with Central Scientific Instruments Organization (CSIO) has developed the first indigenous medical linear accelerator (4 MeV linac) for treating cancer patients. On the recommendation of Radiation Oncologists and medical experts it was decided that 6 MeV medical linac would be the workhorse for majority of cancer cases. Thus 6 MeV medical linac were developed under the Prime Minister's Jai-Vigyan (JV) programme of Govt of India. Medical linac machines under this program has already been developed and deployed at few hospitals in the country. The 6 MeV medical linac machine is type approved by Atomic Energy Regulatory Board (AERB). The first 6 MeV medical machine was used for treatment of cancer patients in the Mahatma Gandhi Institute of Medical Sciences (MGIMS), Wardha, Maharashtra and over 36000 patient exposures had been delivered. The second machine was successfully treating patients at Cancer Institute Adyar, Chennai. In addition to this four more machines have been made under the Jai-Vigyan programme (Phase II) and deployed. The encouragement and support by the Jai Vigyan project steering committee members and the positive feedback from eminent oncologists has enthused SAMEER to take up the challenging task of making more medical linac through industry partnership and cater to country's need. Also the growing number of cancer patients globally and in the country makes the indigenous medical linac production an urgent necessity.

Realizing the need for large numbers of medical linac systems in the country, SAMEER with the support of MeitY has established specialized facilities for testing of medical Linac at Kharghar, Navi Mumbai Campus. This facility is fully operational and may be offered on chargeable basis for a limited period.

Present status of this technology at SAMEER is as follows:

- a) Six prototypes have been developed and deployed in various hospitals for the patient treatment.
- b) Documentation in hard /soft copy format is available for each subsystem
- c) Completed the aesthetics and ergonomics improvements with NID, Ahmedabad.
- d) Initiated work towards developing critical attachments to the linac system like Multileaf Collimator (MLC), EPID and TPS.

A brief description of the medical linac and the technologies involved is listed to give some introduction to the linac system:

SAMEER has developed and established the technological expertise listed below that are required for the making of a medical linear accelerator machine.

- a) **Vacuum tube Technology:** The linac tube is the source of the X rays or electrons that are used for the treatment. The critical component, the linac tube, requires proper materials, ultra precision fabrication, controlled atmosphere furnace brazing, microwave measurements, ultra high vacuum technology, chemical plating / cleaning etc.
- b) **Ultra Precision and heavy mechanical engineering:** Ultra Precision fabrication is needed for the linac tube parts like cavities, electron gun parts etc and secondary collimator. The gantry and stand are heavy structures that house most of the assemblies of the medical linac machine. The complete gantry with the components weighs around five tons.
- c) **High Voltage Engineering:** The high voltage modulator drives the microwave source i.e. magnetron. It converts alternating current mains power to high voltage pulses which are applied through a pulse transformer to the magnetron
- d) **Microwave Engineering:** The microwave source, i.e the magnetron, generates Megawatt of RF power and transports them to the accelerator through pressurized waveguides, high power circulator, directional couplers, bends etc. Loads are also used to absorb reflected power.
- e) **Control Console:** The FPGA based control console provides a central location for presetting, monitoring, and controlling operation of the accelerator for the therapy treatment. It also provides display of dose, beam on time, mechanical position readouts etc and an indication of the status of the various interlocks and subsystems.
- f) **Water cooling system:** The closed loop De-Ionised water circulation system cools critical components like linac tube, magnetron, circulator etc keeping them at a controlled constant temperature for optimum performance. This system comprises a chiller unit as well as a heater to maintain the output temperature with PLC controls at any ambient temperature.
- g) **Dosimetry and clinical evaluation:** The linac machine is tested and the specifications have to be demonstrated to the regulatory authorities before it is cleared for the installation at the hospitals. Efficient and safe radiation therapy requires the performance characteristics of radiation treatment beams to remain constant during each individual treatment as well as over long periods of time.
- h) **Field Optics and Optical Distance Indicator:** The field optics is used for the simulation of the X-ray field and to assist in positioning the patient prior to treatment on patient couch. The projected light beam is adjusted to coincide with the X-ray beam.
The single body optical distance Indicator (ODI) in the treatment head provides convenient visual methods for patient positioning using optical distance indicators. The main function of single body ODI is to determine the source to skin distance (SSD) or target to surface distance (TSD).

Other systems include patient support assembly for setting up the patient, radiation shielding to keep the radiation leakages from the machine within stipulated limits, beam collimators to guide X rays to fall on treatment area, field light and range finder to simulate the X rays and ionization chamber for measurement of radiation intensity etc. After diagnosis and confirmation of

cancer, the Treatment Planning System (TPS) is used to plan the course of treatment.

4.0 SCOPE OF WORK

The Expression of Interest (EOI) is for manufacturing of medical Linac with the scope of work as listed below

- a) To manufacture medical linear accelerator machines.
- b) To install and commission medical linac at user hospitals.
- c) To maintain the linac machines at the hospitals.
- d) To market the medical linac in India and abroad.
- e) To take up any other activities / functions as per SAMEER's requirements /directions as mutually acceptable.
- f) To work in close association with SAMEER in the event of future developments /upgradations / modifications of the existing technology / machines or derivatives thereof.

5.0 TECHNICAL KNOWHOW TRANSFER FROM SAMEER

5.1 SAMEER will provide a time bound, territorial, non-exclusive, determinable, revocable license of the technical knowhow of the 6 MeV Medical LINAC system **excluding the Linac tube** on a **non-exclusive** basis within the geographical limits of India. The knowhow shall be provided on an "AS IS WHERE IS BASIS." The bidder is required to develop one(1) model/piece of the regulatory approved, commercially deployable Medical Linear accelerator within 18-24 months from the date of signing the license agreement. The progress of the work shall be reviewed periodically by SAMEER or its designated officials / representatives.

5.2 The LINAC tube which is the most critical component must be mandatorily taken/procured / obtained from SAMEER only, on a cost basis, as per mutually agreed terms for integration with rest of the system till the tube technology is also transferred. Only in the situations if any, where SAMEER is not able to meet the requirements of the tubes as defined in proposed license agreement, Grantee may source them from the open market with the prior written permission of SAMEER.

5.3 SAMEER may offer a license to the tube technology to Grantee at a cost on a non-exclusive basis after evaluating its readiness and capability to absorb the same. There shall, however, be a separate license agreement for the same. The readiness of the Grantee may be assessed after successful commissioning of two (2) or three (3) machines, as assessed / determined solely by SAMEER

- 5.4** In the event of the Grantee / bidder is unable to perform or build the commercial versions of the machine as per SAMEER's instructions / directions, the license that may be granted may be revoked, entirely at SAMEER's discretion. In such an eventuality, SAMEER will no longer continue to hand hold the industry for any work related to the development of medical linac.
- 5.5** SAMEER will provide design documentation for the development of the medical LINAC Machines and its Sub-systems -as mentioned in the scope of the work to the selected bidder.
- 5.6** SAMEER will (but will not be obligated to) offer guidance to the bidder in understanding its documents.
- 5.7** The selected Bidder is expected to prepare detailed documents of fabrication, development & testing of various sub-systems.
- 5.8** The selected Bidder should prepare the final documentation as per industry standards and as may be required by SAMEER upon its evaluation (if any).

6.0 TEST FACILITIES AT SAMEER

SAMEER has established the following facilities at Kharghar, Navi Mumbai and would be available to industry:

- 6.1** Radiation shielded room in which the complete medical linear accelerator can be tested and evaluated. These facilities will be made available, on an available time slot basis at SAMEER's discretion at a cost to the industry to use for above purpose only for a limited period.
- 6.2** In the event of any damage, destruction of SAMEER's equipment(s) / machines or the facility itself by the bidder or at the bidder's instance, as solely determined by SAMEER, the bidder shall make good such losses and bear / pay the costs towards such damage and repair / restoration of the facilities, if any.

7.0 PRE-QUALIFICATION EVALUATION

- 7.1** The bidders must have furnished/ submitted the necessary documents as directed by SAMEER to establish their eligibility (indicating the page number in the bid) for each of the items given as per ANNEXURE A: ELIGIBILITY AND DESIRABLE CRITERIA. Relevant portions in the documents should be highlighted. If a bid is not accompanied by all the necessary documents, it will be summarily rejected without ascribing reasons.
- 7.2** A Bid that does not fulfill all the stipulated eligibility conditions/criteria will not be considered.
- 7.3** SAMEER will evaluate and short list the bidders as per the required information submitted.

8.0 KNOW HOW TRANSFER PROCESS

- 8.1** All the shortlisted bidders will be issued draft Non-Disclosure Agreement (NDA) for their consent.
- 8.2** SAMEER will evaluate the information submitted as per Annexure A.
- 8.3** The NDA will be signed with the bidders who give their consent in writing.
- 8.4** SAMEER will hand over the hard/soft copy of the documentation for the bidders who have signed / executed the NDA.
- 8.5** The eligible bidders will be issued draft License agreements (LA's) after due evaluation, signing of the NDA and payment of one time License fees.
- 8.6** The LA agreement will be signed with the eligible bidders and the technology will be licensed for commercial manufacturing initially for a period of 5 (Five) years. Subsequently, the LA can be renewed on the recommendation of evaluation committee constituted by SAMEER/ MeitY.

9.0 FINANCIAL TERMS AND CONDITIONS

- 9.1** A one-time license fees to be paid by the Bidder to SAMEER at the time of signing/ executing of the LA agreement is INR 50,00,000/- (Rupees Fifty Lakhs Only). Hand holding and technical support will be provided as per conditions of LA agreement over the entire duration of the LA agreement. The royalty amount at the rate of 2% of the selling price per machine sold is to be paid by the Grantee to SAMEER.
- 9.2** The bidder is to submit a third party audited Annual Sales Report along with its audited annual financial statements to SAMEER in order that it may ascertain the machines sold / commercialized by the bidder. SAMEER will be entitled to conduct an inspection/ audit of the financial

documents of such a bidder to ascertain the actual sales/ commercialization revenues. In the event there is a discrepancy reported, SAMEER shall be entitled to levy a penalty of 5% in addition to 2% royalty on the bidder for each machine sold.

- 9.3** In the event it is determined by SAMEER that there is a continuing default in either reporting figures on payments, any licenses granted to the bidder are liable to be terminated / revoked on an immediate basis.
- 9.4** The selected bidder(s) will be required to obtain and maintain applicable / general liability insurance (including but not limited to naming SAMEER as a beneficiary thereof) for all machines throughout the tenure of any License Agreement

The financial terms and conditions are revised to promote indigenous manufacturers to take the technology at very concessional rates under “Atmanirbhar Bharat” on the occasion of “Azadi Ka Amrit Mahotsav”

10.0 TECHNICAL SPECIFICATIONS

Sr. No.	Parameter	Specifications
1.	Particle type	X rays (Photons)
2.	Energy	6 MeV (Nominal)
3.	Dose Rate (flattened intensity)	Variable from 50 to 240 cGy/min at one metre.
4.	Field Size	0 x 0 cm to 35 x 35 cms with sharp corners (40 x 40 cm with clipped corners)
5.	Source to Iso-centre distance	100 ± 0.5 cm
6.	Iso-centre to floor distance	139 ± 0.5 cm
7.	Gantry rotation	0° to ± 185°
8.	Field flatness	< 3 % (within 80% of field size)
9.	Optical distance Indicator accuracy	± 2 mm
10.	Cross wire accuracy	± 2 mm
11.	Leakage Radiation	< 0.1% of forward intensity
12.	Patient Treatment Couch Movements	Longitudinal – 120 cms Lateral - ±20 cms Vertical – Range 68 – 168 cm from floor
13.	Electrical requirements Input power supply Maximum load	Three phase, 50 Hz, 440 Volts ±5 % 15 KVA

The 6 MeV medical Linear accelerator developed by SAMEER is in conformance with IEC standards and has been type approved by Atomic Energy Regulatory Board (AERB), Govt of India.

11.0 ANNEXURE A: ELIGIBILITY AND DESIRABLE CRITERIA

S. No.	ESSENTIAL ELIGIBILITY Criteria	Documentar y proof to be submitted
1	An applicant (referred to as “bidder”) shall be a Limited Liability Partnership registered under the LLP Act or a Company incorporated and registered in India under the Companies Act, 1956. Certification by chartered Accountant for minimum of Fifty-one (51) percent shareholding by Indian entities is to be furnished. The LLP/Company should be operational in India for at least last THREE(3) financial years as of 31st March, 2022 as evidenced by the Certificate of Incorporation issued by the Registrar of Companies, India.	Documents in the format as mentioned in Form – 1
2	The bidder should have minimum average annual turnover of INR Two (2) Crores of the last three (3) financial years ending 31st March 2022 as evidenced by the audited financial statement of the company. In case of consortium, at least one(1) member of consortium should meet the turnover requirement. To avail any special benefits in case of MSME/Startups the turnover criteria as per notification No. CG-DL-E-01062020-219680 dated 1st June 2020 of Ministry of Micro , Small and Medium Enterprises be met. The copy of a Government certified certificate of MSME shall be furnished as evidence.	Documents in the format as mentioned in Form - 2
3	The bidder should have a positive net worth for the last three (3) financial years ending 31st March 2022 as evidenced by the audited accounts of the company. Net worth is defined as sum of shareholders capital and Reserves & Surplus	Documents in the format as mentioned in Form – 2
4	Firms/ Companies may enhance their qualifications/ competence by forming a Consortium with other firms/companies. It is clarified that in case of a Consortium, the Lead Bidder, who shall submit the bid, shall be a firm established in India or a Company incorporated in India	Copy of Power of Attorney with clear roles & responsibilities and defining joint and several liabilities and Consortium Agreement

5	The bidder (Single firm or Consortium) shall not have been blacklisted by or entangled in legal disputes with Central Government or any State Government Organization / Department PSU in India at the time of submission of the Bid.	Documents in the format as mentioned in Form – 4
DESIRABLE CRITERIA		
1	It is desirable that the bidder should have executed work related to design, manufacture, supply and maintenance during the last three (3) financial years. In case of consortium, at least one(1) member of consortium should meet the criteria.	Documents in the format as mentioned in Form – 3
2	It is desirable that the bidder should possess ISO 9000/9001 /13485 or equivalent standards..	Copy of valid certificates
3	It is desirable that the Bidder should have adequate technical expertise, manufacturing facilities and manpower to undertake this work	Manpower strength i. Technical; ii. Non-technical at various levels to be furnished.
4	It is desirable that the Bidder should have adequate manufacturing and Inspection & Quality control facilities for this work.	The list of equipments available to be furnished.
5	It is desirable that the Bidder should have service engineers to attend service calls for this unit.	The details of this are to be furnished
6	It is desirable that the Bidder should have well-established sales and marketing network.	The details of this are to be furnished

It is to be noted that in the event any inaccurate or false submission(s) by any applicant/bidder in the above required documents or eligibility criteria is found in any bid, such a bidder is liable to be rejected without ascribing any reasons.

12.0 DETAILS OF BIDDER ORGANIZATION FORM – 1

To be filled separately by consortium members on Company Letter Head

Details of the bidder Organization	
Name	
Nature of the legal status in India	
Nature of business in India	
Date of Incorporation	
Certificate of Incorporation (CIN)	
Date of Commencement of Business	
ROC Reference No	
Address of the Headquarters	
Address of the Registered Office in	
Address of offices in India	
Other Relevant Information	
Name of the contract person: Address: Telephone: Fax: E-mail:	
Permanent Account Number	
GSTN	
The Bidder profile, giving details of current activities and management/ personnel structure including evidence of incorporation.	
The list of technical collaborators on similar technology is to be furnished , if any.	
Mandatory Supporting Documents:	
<ul style="list-style-type: none"> a. Certificate of Incorporation from Registrar of Companies (ROC) b. Relevant sections of Memorandum/ Articles of Association of the company or filings to the stock exchanges to indicate the nature of business of the company c. Certification on commencement of business d. Copy of board resolution authorizing the bid signatory along with power of attorney 	

CERTIFICATE AS TO AUTHORISED SIGNATORIES

I, <representative name>, the Company Secretary of <name of the organization>, certify that <Representative name> who signed the above Bid is authorized to do so and bind the company by authority of its board/ governing body.

Signature:

Name:

Designation:

Company Seal:

**13.0 FINANCIAL INFORMATION OF THE BIDDER
FORM – 2**

To be filled separately by consortium members

<Date>

Financial Information			
	2019-20	2020-21	2021-22
Turnover (in INR crores)			
Profit Before Tax (in INR crores)			
Net Worth (in INR crores)			
Other Relevant Information			
<p>Mandatory Supporting Documents:</p> <ul style="list-style-type: none"> a. Audited financial statements for each of the three financial years as mentioned above (Please include only the sections on P&L, revenue and the assets, not the entire balance sheet.) b. Certification by the company auditors supporting the revenue break-up 			

<Signature>

<Company Seal>

Name:

Designation:

Name and Address of Auditor:

14.0 BIDDER'S EXPERIENCE

FORM – 3

To be filled separately by consortium members

Bidder's experience in the last three(3) financial years from the date of publishing of EoI
Product development
The previous experience of manufacturing products under the ToT/own internal development by the Bidder is preferred. Please furnish the details. <i>If required, SAMEER would inspect the manufacturing facilities of the Bidder, and the decision of SAMEER committee would be final and binding on all the parties.</i>
Products manufactured as regular activity
List of products manufactured as regular activity in last three(3) years. Give the list of products with general specifications and the customers if any.
List of clients
List of PSUs/ Govt. customers- with the contact details (Address, Telephone Number, and the name of contact person)
List of other important customers – with the contact details (Address, Telephone Number, and the name of contact person)

Supporting Documents

bidders to submit (a) Work Order/Purchase Order/Contract + Completion Certificates from the client; OR (b) Work Order/Purchase Order/Contract + Certificate of Completion by the Statutory Auditor; (c) OR Work Order/Purchase Order/Contract + Phase Completion Certificate for Projects for which Development is complete

The above supporting document(s) should clearly specify the value of the purchase order

The above document(s) should be duly certified by authorized

<On behalf of bidder Name>

Authorized Signature [In full and initials]:

Name and Title of Signatory:

Name of Firm: Address:

Seal/Stamp of bidder:

**15.0 UNDERTAKING OF NOT BEING BLACK LISTED
FORM – 4**

(To be submitted on the Letterhead of the bidder)

<Date>

<Address>

Dear Sir,

We confirm that our company is not blacklisted in any manner whatsoever by MeitY, any State Government, Central Government or any other Public sector undertaking or a Corporation or any other Autonomous organization of Central or State Government as on Bid submission date.

Further we confirm that, our company is not convicted of an offence (a) under the Prevention of Corruption Act, 1988; or (b) the Indian Penal Code or any other law for the time being in force, for causing any loss of life or property or causing a threat to public health as part of execution of a public procurement contract, during last 3 years from date of submission of this bid.

It is hereby confirmed that I/We are entitled to act on behalf of our company/ corporation/ firm/ organization and empowered to sign this document as well as such other documents, which may be required in this connection.

Sincerely,

<Signature>

<Company Seal>

Name:

Designation:

Name and Address of Company: