सत्यमेव जयते
Ministry of Defence
Government of India

REQUEST FOR INFORMATION

BY

MINISTRY OF DEFENCE

GOVERNMENT OF INDIA

FOR PROCUREMENT OF

MOBILE CELLULAR COMMUNICATION SYSTEM FOR INDIAN ARMY

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The contents of this RFI must not be disclosed to unauthorised persons and must be used only for the purpose of submission of responses.

This document contains 17 pages including cover page and Appendices.

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PMO Tac Comn Sys
Dt.....
Integrated HQ of MoD (Army)
एकीकृत मुख्यालय रक्षा मंत्रालय (थल सेना)

Tele: 26155076

Project Management Organisation
Tactical Communication System
IHQ of MoD (Army)
Room No 009, Block No P-3
PMO Complex, DGIS Enclave
New Delhi-110010

B/86977/I/MCCS/PMO/TCS

22 Jul 2022

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REQUEST FOR INFORMATION FOR MOBILE CELLULAR COMMUNICATION SYSTEM (MCCS) FOR INDIAN ARMY

1. The Ministry of Defence, Government of India, intends to procure 4G (Long Term Evolution – Advance) (4G (LTE-A))/ Fifth Generation (5G) in Stand Alone (SA)/ Non Standalone Architecture (NSA) based mobile cellular communication network on turnkey basis. With a view to seek inputs from suitable Telecommunication Service Providers (TSPs)/ Original Equipment Manufacturers (OEMs) /Firms, who can undertake the said turnkey project and meet the qualifying criteria, TSPs/OEMs/Firms are requested to forward information on the system which they can offer.

2. This Request for Information (RFI) consists of following parts as indicated below:-

(a) **Part I**. The first part of the RFI incorporates operational characteristics and features that should be met by the equipment. Few important technical parameters of the proposed equipment are also mentioned.

(b) **Part II**. The second part of the RFI states the methodology of seeking response of participating TSPs/OEMs/Firms. Submission of incomplete response format will render the firm liable for rejection.

PART-I

3. **Intended Use of Equipment**. Mobile cellular network based on 4G LTE (A)/ 5G (in SA/NSA) mode for field formations of Indian Army deployed in mountainous/ semi-mountainous/ high altitude region (upto range of 18,000 feet). The network is envisaged to provide high bandwidth, low latency, reliable and secure voice, messaging and data services in intended area of coverage to fulfil varied operational necessities. The firms are required to propose a solution under the following terms of reference :-

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(a) Turnkey solution for mobile cellular network based on 4G LTE (A)/ 5G (SA/NSA) technology for intended area of coverage.

(b) The solution should meet all specifications and standards as applicable to latest 3GPP release and upgradable for future releases.

(c) The solution should not be specific to any OEM specifications resulting in vendor lock in and must support globally accepted standards.

(d) The solution should include detailed product and services description, technical specifications and Key Performance Indicators (KPI) of various components.

(e) The solution should include capabilities to incorporate IRNSS support.

(f) Security Assessment Matrix for each type of service planned in the network is required to be submitted along with the proposal.

4. **Important Parameters**

(a) **Operational Requirements**.

(i) The intended network will be used by field formations of Indian Army deployed in mountainous/semi-mountainous / high altitude region (upto 18,000 feet). The network is envisaged to provide reliable and secure voice, messaging and data services in intended area of coverage to support operational requirements of field formation.

(ii) The response should bring out in detail the aspects related to Geo-Redundancy support for the intended network with another 4G LTE (A), 5G (SA/NSA) or higher technology as per latest 3GPP release based cellular network considering that the EPCs/equivalent core of the two networks are interconnected via Optical Fibre. The details should cater for under mentioned:-

(aa) List of sub-systems, equipment, elements, components etc. that will be considered for Geo-Redundancy.

(ab) Detailed mechanism for implementation of Geo-Redundancy at System, Sub-system level down to significant card levels.

(ac) The detailed functioning of the Geo-Redundant mode of operation.

(iii) The response should clearly bring out methodology for network optimisation.

(iv) The detailed list of tools, test and measurement equipment that will be required for RF Planning/Site Survey, Management and Maintenance of the network.

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(b) **Secrecy Requirements**

(i) Communication between User Equipment (UE) or handset would be based on commercial AES 256 bit encryption or better. The UE/handset will have the provision to port application layer secrecy also.

(ii) The system offered should have capability to be integrated with an encryption device (IP encryptor) as a Buyer Furnished Equipment (BFE) for back haul secrecy of the network.

(iii) The solution must ensure that the network is inaccessible by an unauthorised and illegitimate user, eNodeB/ G Node B(gNB) or other Radio Access Technology (RAT) network.

(c) **Indigenisation**. The response should include in detail the undermentioned aspects:-

(i) The availability of the network system/sub-systems/related equipment in Indian Market, level of Indigenisation (% of Indigenisation Content), life time span of the network solution being offered and the associated maintenance support for the life span.

(ii) The plans to meet BUY (Indian) guidelines as per DAP 2020.

(iii) Wherever applicable, the availability of design documents to include Process of Design, Mathematical and Analytical details in support of design, Engineering Design and Specifications and Manufacturing Process to be involved in the design.

(d) **Test Bed**. There would requirement of establishment of test bed to evaluate the network solution being offered within 03 months from award of Contract. The response should clearly bring out the details as mentioned below: -

(i) The firm should submit the willingness and capabilities to establish the test bed.

(ii) The test bed should consist of Core, at least two Nodes (eNode & gNodeB each) along with backhaul media and other sub-system necessary to showcase the functionalities offered by the network.

(iii) Modalities for establishment of Test Bed.

(e) **Delivery and Installation**. The firms should submit the capability to complete the delivery of network (including execution) within 12 months or less from the award of the Contract. The modalities and tentative delivery schedule to be submitted with the response.

5. **Firm's Information for Implementation of Turnkey Projects**.

(a) Annual turnover of the company.

(b) Previous experience of implementation of similar turnkey project.

(c) Compliance to ISO Standards.

(d) Any project suspended for more than six months after commencement.

(e) Any project abandoned before completion.

6. **Miscellaneous**.

(a) Willingness for **Option Clause** (to execute a similar project) including the duration for which the Option Clause would be valid.

(b) Any futuristic plans for upgradation / modernisation plans for the network solution being offered.

(c) Acceptability to the terms of payment as per provisions of the DAP 2020.

(d) Firms to also submit willingness to carry out site survey and RF planning at intended sites on NCNC basis for finalisation of Bill of Material prior for preparation of Detailed Project Report (DPR).

7. Firms are also required to submit the willingness to under mentioned conditions along with the response:-

(a) The solicitation of offers will be as per '**Single Stage-Two Bid System**'. It would imply that a '**Request for Proposal**' would be issued soliciting the technical and commercial offers together, but in two separate sealed envelopes. The validity of the commercial offers should be atleast 18 months from the date of submission of offers.

(b) The technical offers will be evaluated by a **Technical Evaluation Committee (TEC)** to check its compliance with RFP.

(c) Amongst the Firms cleared by TEC, a **Commercial Negotiation Committee (CNC)** will decide the lowest cost bidder (L1) and conclude the appropriate contract.

(d) The product support will be provided for time period specified in the RFP, which includes spares and maintenance tools/jigs/fixtures required for up to component level repairs.

(e) The firm will be required to accept the general conditions of contract given in the Standard Contract Document as per DAP 2020.

(f) An **Integrity Pact** along with appropriate Bank Guarantee is a mandatory requirement as per DAP 2020.

(g) A **Performance-cum-Warranty Bond** of **3%** of value of the contract will be furnished by the firm in the form of Bank Guarantee after signing of the contract.

PART II

8. **Procedure for Response**. Firms must fill the details as per Performa attached as Appendix A. Firms are also required to furnish additional literature on the product being offered along with the response.

9. The Government of India invites responses to this request from TSPs/OEMs/Firms, who have considerable know how/expertise in installation, commissioning, operationalization and maintenance of similar networks. The end user of the offered network solution is Indian Army.

10. This information is being issued with no financial commitment and the Ministry of Defence reserves the right to change or vary any part thereof at any state. The Government of India also reserves the right to withdraw if it be so necessary at any stage.

11. The acquisition process will be carried out under the provisions of DAP 2020.

Enclosures :- (As above)

Appendix A
(Ref Para 7 of PMO TCS letter No B/86977/I/MCCS/PMO/TCS dated 22 Jul 22)

REQUEST FOR INFORMATION (RFI) : MOBILE CELLULAR COMMUNICATION SYSTEM (MCCS) FOR INDIAN ARMY

1. The Ministry of Defence, Government of India, intends to execute project Mobile Cellular Communication System on Long Term Evolution – Advance 4G LTE (A)/ Fifth Generation in Stand Alone/ Non Standalone Architecture (5G (SA/NSA)) technology or better for Indian Army. The parameters/ broad specifications of the item are mentioned in the questionnaire attached as per Annexure I to Appendix A. In addition, the vendors are required to furnish details as per Performa given at Annexure II to Appendix A.

2. Apart from the information as per the Appendix the vendors may also forward technical details/product brochures/literature etc pertaining to the item in question.

3. The filled form along with the response should be dispatched at the undermentioned address:-

(a) Project Management Organisation
Tactical Communication System(I/O Section)
IHQ of MoD(Army)
Room No 009,Block No P-3
PMO Complex, DGIS Enclave
New Delhi-110010
Telephone No : 01126155076
Email : root.tech613@nic.in

(b) Directorate General of Capability Development (CD-7)
General Staff Branch,
A Wing, Sena Bhawan,
IHQ of MoD(Army)
DHQ PO
New Delhi -110011

(c) Army Design Bureau (GSQR Cell)
General Staff Branch
Room No 16, C Wing
Sena Bhawan
IHQ of MoD (Army)
DHQ PO, New Delhi – 110011

(d) ADG Acquisition Technical (Army)
Room No – 28,
D-II Wing, Sena Bhawan
Ministry of Defence,
New Delhi- 110010

4. Last date of acceptance of the response is 16 Sep 2022. A RFI meeting will be held at DG Signals, Sena Bhawan within four (04) weeks of issue of RFI for clarification, if any. Participating firms are requested to intimate details to address mentioned at Para 3 (a) above for coordination of meeting for RFI clarifications by 12 Aug 2022.

Annexure I to Appendix A
(Ref Para1 of Appendix A)

QUESTIONNAIRE

<table>
<tr><th>Ser No</th><th colspan="2">Parameters</th><th>Specifications</th><th>Reply</th></tr>
<tr><td>1.</td><td colspan="2">Purpose</td><td>To provide Long Term Evolution – Advance (LTE (A))/ Fifth Generation (5G) in Stand Alone (SA)/ Non Standalone Architecture (NSA) technology based mobile cellular services to formations deployed in mountainous/semi mountainous/high altitude terrain.</td><td></td></tr>
<tr><td>2.</td><td colspan="2">Capabilities</td><td>The solution proposed should be based on latest release of 3GPP pertaining to 4G/5G in SA / NSA mode and upgradable to future releases as a turnkey solution for field formations of Indian Army deployed in mountainous/ semi-mountainous/ high altitude (upto 18,000 feet) areas. The solution is envisaged to provide high bandwidth, low latency, reliable and secure voice, messaging and data services in intended area of coverage with optimal Quality of Service (QoS) to support operational requirements of field formation.</td><td></td></tr>
<tr><td rowspan="2">3.</td><td rowspan="2">Technical Parameters</td><td>Standards for Network</td><td>The network should comply with latest 3GPP release applicable to LTE (A) / 5G in SA / NSA mode mobile cellular communication technology and upgradable to future releases. The equipment, accessories and subsystem of the offered solution should comply to TEC GR, as applicable.</td><td></td></tr>
<tr><td>Frequency Band</td><td><u>Access System</u>. The system should have support for multiple band of frequency as applicable to LTE (A) / 5G in SA / NSA networks. In addition, requirement of minimum / maximum frequency band with coverage and data throughput be indicated in 4G (LTE) and 5G bands. In addition, availability, throughput and coverage in 2380-2400 MHz also be brought out. A suggestive format is as under :-
<table>
<tr><th>Ser No</th><th>Band</th><th>Bandwidth</th><th>Throughput</th><th>Coverage</th></tr>
<tr><td>(a)</td><td>700 MHz</td><td>10/20 MHz</td><td></td><td></td></tr>
<tr><td>(b)</td><td>800 MHz</td><td>5 MHz</td><td></td><td></td></tr>
<tr><td>(c)</td><td>2380-2400 MHz</td><td>20 MHz</td><td></td><td></td></tr>
<tr><td>(d)</td><td>3.3-3.67 GHz</td><td></td><td></td><td></td></tr>
<tr><td>(e)</td><td>24.25 – 27.5 GHz</td><td></td><td></td><td></td></tr>
</table></td><td></td></tr>
</table>

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			Microwave. The microwave solution should be based on 4/5 GHz as well as 7/8 GHz band. Also state if other bands are supported. **Satellite**. For remote locations Satellite backhaul with no communication infrastructure is planned. The response should consider planning for 25% Nodes with satellite backhaul capability. The response should also include in detail the satellite system component and architecture i.e. the technical specifications, features and capabilities.	
		Environmental Parameters	The network should be capable to be deployed indoor, outdoor as well as Cell on Wheel (CoW) mode. The indoor equipment will be in shelter with controlled environment. The outdoor elements of the network including UE/ handsets should be able to perform to its full capacity in under mentioned meteorological details:- (a) Temperature Range - $-20^0C+/(-)\ 5^0C$ to $45^0C+/(-)\ 5^0C$. (b) Altitude Range - Upto 18000 feet. (c) Rainfall Range - 0.5mm to 50cm. (d) Snowfall Range - Nil to 10 feet. (e) Wind speed - 50 to 120 Kmph. The outdoor equipment should function in altitude and temperature range given.	
		Evolved Packet Core(EPC)/ 5G Core	The proposal should include core solution for 4G /5G /5G-NSA with IMS and also covering the necessity of connecting proposed network with existing army owned CDMA network via gateway and other military mobile communication systems, with Army owned EPABX and Army Data Network. The response should also cover details on proposed features of Mobility Management Entity (MME), Policy and Charging Rules Function (PCRF), Serving/PDN Gateway, DNS, Evolved Packet Data Gateway (ePDG) and Network Time Protocol Server etc as applicable to 4G LTE (A)/ 5G (SA/NSA) technology as per 3GPP standards.	
		IP Multimedia System (IMS)	The response should clearly bring out the details of the IMS required to be deployed alongwith its network functions as per latest 3GPP standards. It should also bring out methodology of implementation of these network functions i.e. virtual or separate products or multiple functions in same product.	
		eNodeB and gNodeB	The response should include details for all kinds of eNodeB / gNodeB (Static and Cell on Wheel based Indoor/small-cell, Satellite backhaul capable etc). The details should include the various form factors for each type, power requirements, coverage provided by each type, cell edge throughput, interfaces supported and scalability.	

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		Quantity	The solution should be proposed for approximately 175 nodes with approximately 15,000 users including approximately 20 Mobile eNodeB / gNodeBs. The response should bring out the maximum subscriber support per eNodeB / gNodeB.	
		Backhaul Media	The network so proposed should have support for multiple backhaul (Optical fibre-Fresh or Existing, Microwave and Satellite). Microwave radio should be worked out with optimal requirement per eNodeB/gNode B as per standards. Optical cable will preferably be employed as the primary means of backhaul with Microwave and Satellite being employed for connecting locations with no fibre connectivity and/or for redundancy. Feasibility of auto switch over between the available backhaul media as a failsafe mechanism in the event of failure of current media should be available. The capability of the expansion of media to cater for increased user density and integration of additional eNodeB/ gNodeB should be clearly stated in the response.	
		Secrecy at UE / Handset	User devices should have commercial grade 256 bit AES encryption secrecy or better and should also have facility to port application level encryption solution as per user requirement. The response should clearly bring out in detail the services that can be offered by the user device.	
		Services	The intended network is proposed to deliver voice, VoLTE, SMS, Data and all services as per latest release of the 3GPP standards as applicable to 4G LTE-A /5G SA/ NSA systems. The response should clearly mention the detailed list of all services that will be offered by the network. The firm is also required to propose solution for Mobile Device Management (MDM) suite for the network including details of all features offered by MDM.	
		Network Availability	The solution proposed must have an availability of 99.95 % for Core and 99.9 % for eNodeB/ gNodeBs.	
		Power System	The response should include the power requirement of a complete functional packet core and eNodeBs/ gNodeBs. The power solution should be a mix of generators of indigenous make (comparative analysis of normal and silent generators), UPS (single/3 phase), SMPS and alternate sources such as solar energy. The power requirement should be proposed keeping in view the terrain and environmental parameters of the intended area of execution of the project. Certain places may require the carriage of generators by ponies, human resources or transportation by air effort that may require de-assembling of the equipment. There will be places where captive mains may be available. The feasibility to utilise the mains should exist along with the automatic changeover mechanism. The devices will be required to run 24x7.	

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			The response should clearly bring out the power requirements as per the type of Node and equipment it's being employed for, power management mechanism so proposed and the standards applicable to the equipment. The solution should also cater for centralised power management of the complete network. The firm/SI/OEM may indicate feasibility of fuel cell solution for isolated detachments.	
		Environmental Control System	The solution should bring out details of environmental control device/system required for the complete network as applicable to the solution offered.	
		Earthing	The solution proposed should provide state of the art Earthing solution to the entire network (EPC, eNodeB/ gNodeBs of all types and other subsystems as part of the network). The response should clearly bring out the technical specifications of the components, different standards to which the system will comply and the EMI/EMC capabilities of the devices being proposed as part of earthing. Also include the feasibility of reusable earthing kit for mobile eNodeB / gNodeBs.	
		Lightning Protection System (LPS)	Solution proposed should cater for protection against lightning, thundering and surge for all active and passive devices/elements. The response should clearly bring out the technical specifications of the components, different standards to which the system will comply and the EMI/EMC capabilities of the devices being proposed as part of lightning protection system. The solution proposed should bring out the capability to support the network at altitudes of upto 18000 feet which is prone to severe lightning and thunderstorm.	
		EMI / EMC	As per commercial standards.	
4.	Additional Features	Engineer Support	The response should clearly bring out the necessity of residential engineer support for monitoring, maintenance and necessary repair of the system.	
		Equipment Configuration including List of Deliverables	The firm is required to submit in detail the configuration of all equipment forming part of the network along with the list of deliverables.	
		EMS/NMS	The response should elaborate in detail the Element and the Network management Systems that shall form part of the solution being offered. The detail literature on the architecture, utilisation, features, capabilities, reports that can be generated out of EMS/NMS to be submitted along with the response.	
		AI	The response should bring out feasibility to incorporate AI tools for Network	

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			Optimisation and RF / Spectrum management / Data Analytics tools etc.	
		Survey	The response should clearly bring out the willingness to carry out site survey and RF survey on NCNC basis.	
5.	Training		The response should clearly bring out the training capacity, training cycle and training mechanism for operator level training to facilitate operation and first level user maintenance.	
6.	Civil Infrastructure		Civil infrastructure will include the construction and erection of new towers and refurbishment of existing towers, if any, buildings for EPC complex (underground/ over ground) and shelters (underground/ over ground) for eNodeB/ gNodeB and Mobile eNodeB/ gNodeB, sheds for generators, plinths and beds for placing DG Sets, Power Equipment and other necessary items. The response should clearly bring out the optimum dimensions with layout of proposed buildings/shelters/sheds/plinths/beds required, the covered and the total land area necessary for establishment of nodes or related sub-systems.	
7.	Delivery Capacity		The response should bring out the capability to complete execution of the project (if contracted) within 12 months or less from the date of the award of contract.	
8.	Maintenance and Repair		The proposed project will be covered under 2 years of warranty and 08 years of comprehensive AMC. The system availability has to be ensured to minimum 99.95% for core and 99% for eNodeB/ gNodeBs. Response should include undermentioned details :- (a) Built in Test and power on self-test features available in the system being proposed. (b) Detail description of maintenance philosophy for the network, its components and elements, spares and user end equipment/accessories (data terminals, handsets, antivirus suite renewal, OS updation, firmware/patch/release up-gradation of all network equipment, power equipment accessories (fan belt, fuses, filters, connectors etc), batteries, electric installations, license renewals and many other micro level needs of the complete infrastructure during the warranty and AMC. (c) Capability to support the network for additional two years post expiry of the AMC.	

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9.	Project Management	The response should bring out in detail the project management methodology for a turnkey network implementation, methodology for conduct of pre-dispatch and post-dispatch inspections, installation and commissioning of the network, network optimisation, network integration and acceptance testing of the network. The firm is also required to submit the post contract management philosophy.	
10.	Estimated Cost of the Proposal	The response should include the breakdown of tentative cost of the project in under mentioned heads. The same be specified separately for each solution i.e. complete for 4G (LTE (A)), 5G (NSA) and 5G (SA). (The details given below are only indicative for reference) :- (a) **<u>Subsystem wise Cost</u>**. (i) EPC /5G Core. (ii) IMS. (iii) eNodeB of each type. (iv) gNodeB of each type. (v) HSS. (vi) EMS. (vii) Cell site routers. (viii) L2 Switches. (ix) NIB. (x) Ground Based Towers as applicable (xi) Antenna Assembly both omni directional and sectoral. (xii) Any other equipment/system/subsystem as deemed necessary for the network. (b) **<u>Backhaul</u>**. (i) Optical Fibre Cable. (ii) Microwave. (iii) Satellite.	

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		(c) **Subscriber Devices**. (i) Mobile Handsets. (Broad specifications of the device for functioning in intended area of deployment should also be specified). (ii) SIM Cards. (d) **Power Systems & Other Systems**. (i) Indigenous DG Sets (various types). (ii) UPS. (iii) SMPS. (iv) Earthing and Lightening Protection System. (v) Environmental Control Devices. (e) **Civil Infrastructure**. (i) Construction and refurbishments of towers. (ii) Buildings for EPC Complex and Warehouse. (iii) Shelters for eNodeB (Static, Mob). (iv) Sheds for Generators. (v) Plinths for placing DG Sets, Power Equipment or other necessary items. (f) Installation and Commissioning. (g) Network Optimisation. (h) Training. (j) AMC for 8 years. (k) Miscellaneous (Any additional item required for network).	

Annexure II to Appendix A
(Ref Para 1 of Appendix A)

VENDOR INFORMATION PROFORMA

1. **Name of the Vendor/Company/Firm**.

_____

(Company profile including Share Holding pattern, in brief, to be attached)

2. **Type (Tick the relevant category)**.

Original Equipment Manufacturer (OEM) Yes/No

Authorised Vendor of foreign Firm Yes/No (attach details, if

yes Others (give specific details)

3. **Contact Details**.

Postal Address:

_____

_____

City: _____ State: _____

Pin Code: _____ Tele: _____

Fax:_____ URL/Web Site:_____

Email: _____

4. **Local Branch/Liaison Office/Agent (if any)**.

Name & Address: _____

Pin Code: _____Tele: _____ Fax: _____

Email: _____

5. **Financial Details**. Category of Industry (Large/Medium/Small Scale):_____

6. **Certification by Quality Assurance Organisation**.

Name of Agency	Certification	Applicable from (Date &Year)	Valid till (Date & Year)

7. **Details of Registration**.

Agency	Registration No.	Validity (Date)	Equipment
GeM			
DGQA/DGAQA/DGNAI			
OFB			
DRDO			
Any other Government Agency			

8. **Membership of FICCI/ASSOCHAM/CII or other Industrial Associations**.

Name of Organisation Membership Number

9. **Equipment/Product Profile (to be submitted for each product separately)**

(a) Name of Product :_____

(IDDM Capability be indicated against the product) (Should be given category wise for e.g. all products under night vision devices to be mentioned together)

(b) Description (attach technical literature):_____

(c) Whether OEM or Integrator:_____

(d) Name and address of Foreign collaborator (if any):_____

(e) Industrial Licence Number:_____

(f) Indigenous component of the product (in percentage):

(g) Status (in service/design & development stage):

(h) Production capacity per annum:

(j) Countries/agencies where equipment supplied earlier (give details of quantity supplied):

_____

_____

(k) Estimated price of the equipment including cost wise breakdown of components.

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10. Alternatives for meeting the objectives of the equipment set forth in the RFI.

11. Any other relevant information.

12. **Declaration**. It is certified that the above information is true and any changes willbe intimated at the earliest.

(Authorised Signatory)