INVITATION FOR EXPRESSION OF INTEREST (EoI) FOR GPS AND GIS BASED MINEFIELD RECORDING SYSTEM (GBMRS)

1. **Introduction**. Engineer Units are required to lay mines as per operational requirements. These mines may have to remain in place for long directions. During recovery of mines, causalities may take place due to inaccurate recording of location of mines. The present methodology being followed to record location of mines with the help of navigation equipment available in the units and manually preparing a sketch of minefield for future references. Therefore, It is essential to have a minefield recording system which should be capable of recording minefield with adequate accuracy and also should be able to indicate correct location of mines, even if they have drifted from their original locations. GPS and GIS Based Minefield Recording System (GBMRS) is envisaged to be such a system to instill confidence in the minefield record.

2. **Objective**. The objective of this invitation of Expression of Interest (EoI) is to seek willingness of Indian Vendors to participate in the Make II Project listed below, in accordance with provision of DPP 2016 (reference Chapter III A). Indian Vendors meeting the Technical, Commercial and Project Requirements laid out in the EoI will as the next Step, issued a ' Project Sanction Order' to develop a prototype as per provisions of Chapter III A of DPP – 2016.

3. **Layout**. The EoI has been convened under following parts.

(a) Part I : General Information.

(b) Part II : Scope of the Project.

(c) Part III: Evaluation Criteria.

(d) Part IV: Procedure for submission of response to the EoI

(e) Part V : Miscellaneous.

PART I : GENERAL INFORMATION

4. **Nomenclature**. GPS & GIS Based Minefield Recording System (GBMRS).

5. **Categorisation**. In accordance with **Para 25 of Chapter IIIA, DPP-2016 (incorporating all amendments upto 01 Nov 2019) the design and development of the system must be indigenous**. The project of further categorised as under :-

(a) **Prototype Development Phase**. "Make-II (Industry Funded)' in accordance with Para 6 of Chapter III-A of DPP-2016.

(b) **Procurement Phase**. 'Buy (Indian-IDDM)' in accordance with Para 5 of Chapter III-A of DPP-2016.

6. **Quantities**. The quantities sought for the project are :-

(a) **Prototype Development Phase** - One No.

(b) **Procurement Phase**. - 1840 Nos.

7. **Make-II Procedure**. Make-II Procedure duly amended upto 01 Nov 2019, is available at Chapter III-A of DPP-2016. DPP-2016 (incorporating all the amendments upto 01 Nov 2019), will be referred to hereinafter in the case and a copy of the same is available at on MoD website.

PART II : SCOPE OF THE PROJECT

8. **SCOPE** GBMRS is envisaged to provide user friendly and simple hand held device tor record details to mines and minefields laid by soldier. The equipment should enable safe laying as well as retrieval of mines, duly catering for shifting of mines after they have been laid.

9. **Preliminary Service Qualitative Requirements (PSQR) of the Proposed System.** PSQR of the GPS & GIS Based Minefield Recording System (GBMRS) is attached as **Appendix A**

Time Line And Milestones

10. **Time Line**

(a) Prototype development - 52 weeks from the date of issue of Project Sanction Order.

(b) Production of 1840 Nos of GBMRS in procurement phase - 24 Months from the date of issue of SO.

11. **Milestones**. Major activities in the procurement are given below :-

Ser No	Activity	Remarks	Timelines
(a)	Issue of EoI	By PFT	T_o
(b)	Pre EoI Response Meeting	By PFT with EoI respondents	T_o + 3 weeks
(c)	EoI Responses Submission	By EoI respondents (Indian Vendors)	T_o + 6 weeks
(d)	EoI Responses Evaluation	By PFT	T_o + 11 weeks
(e)	Issue of Project Sanction Order for Development of Prototype	To selected DAs, those meeting evaluation criteria	T_o + 13 weeks
(f)	Design and Development of Prototype	Selected DAs will develop the prototype	T_o + 65 weeks
(g)	1-2 Intermidate meetings to check the progress and direction of the project to be planned.	-	As required and mutually accepted (T_o + (20-50) weeks

(h)	Conversion of PSQRs to SQRS / Solicitation of Commercial Officer	-	T_o + 69 weeks
(j)	User Trial and Staff Evaluation	A commercial Request for Proposal (RFP) for "Buy(Indian-IDDM)" phase will be issued to all DAs for submission of commercial offer prior to commencement of User Trials	T_o + 73 weeks - T_o + 91 weeks

Development of Prototype and Trials

12. All possible and reasonable assistance and any clarification related to functional or operational aspect of development as sought by DAs will be provided by Project Facilitation Team.

13. After the prototype has been developed as per PSQR given at Appendix 'A' the PFT would carry out User Trials Readiness Review of the Prototype(s) and freeze the Technical Specifications before conduct of User Trials on NCNC basis. Evaluation of the equipment will be carried out during the User Trials (Field Evaluation Trials) to validate the performance of the equipment against the Final Technical Specifications. Service HQ will formulate the 'Trial Directive' which will incorporate the parameters for validating the 'Essential Parameters'. Necessary technical literature pertaining to the design and material will be provided by the DAs for the User Trial Readiness Review and conduct of User Trials on the prototype.

Solicitation of Commercial Offers

14. A commercial Request for Proposal (RFP) for 'Buy (Indian-IDDM)' phase would be issued to DA(s) prior to commencement of User Trials for soliciting their commercial offers. **Additional technical information / documentation, as may be necessary including those related to Indigenous Content and IPRs would also be required to be provided by the vendor prior to the issue of Commercial RFP**.

Deliverable

15. Details of tools, accessories, literature, training etc required at the procurement stage will be specified in the RFP.

16. An appropriate Engineering Support Package (ESP) will be required for repair for repair & maintenance of the equipment to include spares, special test equipment / special maintenance tool, training and technical literature to include user hand book, preservation instructions, complete equipment schedule, repair manual and technical manuals. These will be provided with the equipment during the procurement phase. Details will be further amplified in the Request for Proposal (RFP).

Details of Trials

17. The following trials will be conducted / assistance will be provided :-

(a) **Trials**.The trials will be conducted in two stages :-

(i) **Stage –I : User Trials Readiness Review**. Development of prototype and bring the GBMRS to user trial level and facilitate DA(s) to and ensure that the system meets the critical parameters and safety standards.

(ii) **Stage-II : User Trials (Field Evaluation Trials)**. To evaluate the performance and asses the suitability of GBMRS system to meet operational, technical and safety aspects, **User Trials, DGQA Trials, EMI / EMC Trials** and **Maintainability Evaluation Trials (MET)** on **NCNC basis** will be conducted. Details of the same will be included in the RFP.

Intellectual Property Rights (IPRs)

18. As per provisions of **Para 47, Chapter III-A of DPP-2016.** The 'IPR Agreement' will be furnished by each EoI respondent at the time of submission of EoI responses as per format given at Appendix B. Further, based on the development of the prototype, a comprehensive list of design documents (to be informed subsequently) will need to be submitted by the development agencies for verification by a Committee of Experts.

PART III : EVALUATION CRITERIA

Commercial Evaluation Criteria

19. Indian entity satisfying criteria given at Appendix A of the Make-II Procedure [(Chapter-IIIA, DPP-2016 (Incorporating all the amendements up to 01 Nov 2019)] will be considered as an eligible " Indian Vendor" for the project. EoI respondents will furnish their responses to the Commercial Evaluation Criteria as per Appendix C.

Technical Evaluation Criteria

20. The respondents to this EoI are required to furnish information about their Technical Capability as per Appendix D. Compliance / information as per Annexure to Appendix D is also required to be submitted as per the proposed solution offered by the DA against PSQR of the equipment.

21. **Indigenous Content**.

(a) **Prototype Development Stage**. **Minimum 40% Indigenous Content** with indigenous design and development.

(b) **Procurement Phase**. Post successful development of prototypes(s), further procurement will be as per the 'Buy (Indian-IDDM)' procedure with a minimum of 40% Indigenous Content.

22. **Additional Information**. Additional information required to be furnished as part of the EoI response is given at Appendix E.

23. **Foreign Collaboration**. If the DA is collaborating / plans to collaborate with a foreign technology provider, the nature of such collaboration and the technology areas being transferred must be stated in the response (please refer paragraphs 12 & 13of Appendix E. All relevant delivery made under contract shall accompanied by a " Certificate of IC" issued by the Chief Financial Officer (CFO) of the Prime / Main Contractor.

PART IV : PROCEDURE FOR SUBMISSION OF RESPONSE TO THE EoI

24. The response to the EoI shallbe submitted as per formats given at Appendix 'B' to Appendix 'G'

25. **Guidelines for Submitting EoI Responses**.

(a) The responses should be submitted strictly as per the formats given in respective Appendices. Should a vendor need to mention any other information, a separate column / row may be added.

(b) All responses and Appendices should be submitted in a single file / folder. Supporting documents / additional references should be submitted in a separate folder with proper reference mentioned against each parameter / sub parameter in respective appendices.

(c) Any supporting document / evidence without any reference to specific parameter of criteria will not form part of the assessment.

26. **Rejection Criteria for Selection as DAs**. The following may lead to rejection of EoI response :-

(a) Failure to meet Commercial Evaluation Criteria given at Appendix 'C'.

(b) Failure to meet / comply with the Technical Evaluation Criteria specifications give at Appendix D.

(c) Failure to offer compliance to any of the terms and conditions given in the EoI.

(d) Any other parameter of the response considered inadequate by the MoD, Government of India.

27. The EoI respondent shall three (03) copies of response to the EoI, clearly marking one copy as '**Original Copy**' and second & third as '**Duplicate Copy and Triplicate Copy**'. In the event of any discrepancy between them, the original copy shall govern/ prevail. Each page of the response will bear the signatures of the authorised signatory of the company. The DA shall also submit a soft copy of the response to this EoI in a CD/ DVD.

28. **The envelops shall be addressed as under** :-

Lt Col Dharmendra Singh, GSO-1, Comb Engrs - 5(A),
Secy PFT 'GPS and GIS Based Minefield Recording System'
Combat Engrs Directorate,
Engineer-in-Chief's Branch,
Room No 91, Kashmir House, Integrated HQ of MoD (Army),
Rajaji Marg, New Delhi-110011

29. The responses to this EoI must be submitted by on 19 Aug 2020 at the above mentioned address.

30. The company will be required to sign and honour the 'Confidentiality Agreement' with MoD Govt of India. The 'Confidentiality Agreement' will be furnished by each EoI respondent at the time of submission of EoI responses as per format given at Appendix F.

PART V : MISCELLANEOUS

31. **Pre EoI Responses Meeting** A pre-response meeting will be held on 28 July 2020 at 1100hrs Combat Engrs Directorate, Engineer-in-Chief's Branch, New Delhi-11011. Vendors are required to submit their queries / clarifications / amplifications in writing to this office by 20 July 2020.

32. Guidelines for penalties in business dealings with entities as promulgated by Government from time to time, will be applicable on procurement process & bidders.

33. The Pre-Contract Integrity Pact (PCIP), listed as detailed in paragraph 92 of Chapter II of DPP-2016, shall apply mutatis mutandis to the 'Buy (Indian-IDDM)' phase of 'Make' project.

34. Respondent would be subject to disqualifications if they make false, incorrect, or misleading claims in their response to this EoI. A 'Correctness Certificate' As per the format at G will be furnished as part of the response.

35. Please acknowledge the receipt of this invitation for EoI.

File No : 71525/GPS&GIS/CE-5(A)

Dated : Jul 2020

(Dharmendra Singh)
Lieutenant Colonel
Secretary, Project Facilitation Team
GPS and GIS Based Minefield Recording System

Enclosures : **Appendices A to G**

Appx 'A'
(Ref Para 7 of EoI)

OPERATIONAL CHARACTERISTICS

GENERAL INFORMATION

Proposed Service Employment

1. The system will be employed by the manual mine laying parties for recording of mines laid. It will also be employed subsequently for manual recovery of mines.

Operational Characteristics

2. The system should have user friendly Graphical User Interface (GUI) which facilitates the functional requirements of Minefield Recording System (MRS) as brought out in the succeeding paras.

3. The system should plot and record in memory the coordinates of any desired point on the ground at which the equipment is taken.

4. There should be a provision to indicate the current location of the system on the map.

5. It should be able to record the following details of a mine laid on ground and minefield details, to an accuracy of 4 cm (**Desirable**) or 50 cm (**Essential**) when GNSS signals are available :-

(a) Location, in terms of Latitude, Longitude and Elevation in WGS84 datum.

(b) Extent of trip wires, on one or both sides of the mine including diagrammatic plot of trip wires.

(c) Details of minefield to include layout of strips, density, location of Start Strip Markers (SSM), Turning Points (TP), End Strip Markers (ESM), Gaps, Lanes and Perimeter Fencing.

6. It should be able to indicate mines laid and details given above in Paragraph 21 to an accuracy of 4 cm (**Desirable**) or 10 cm (**Essential**) during retrieval of mines post laying of minefield in conditions as mentioned in Paragraph 40.

7. In addition to Paragraph 19 and 21 above, it should be able to record following details of minefield:-

(a) Details of mines including type with a separate symbol for each. The system to have a pre-loaded library of symbols for each type of mine.

(b) Anchorage provided to a mine.

(c) Self Neutralisation (SN) (if applicable)/ Self Destruction (SD) (if applicable)/ Self Deactivation (SDA) (if applicable) period.

(d) Date and time at which a mine is laid/ recorded.

(e) Details of person, mine laying party and unit laying the mine field.

(f) Memo/ notes pertaining to a mine/ minefield, such as reference land mark Map sheet No of area lot No of mines laid, date of manufacture and expiry of mines etc.

8. The system should be able to display a diagrammatic plot of the points recorded on a hand-held screen, which could be zoomed as required for enlargement, with scroll facility.

9. System should display a list of the recorded points as a table with their co-ordinates either in sequence of recording or based on alphanumeric sorting of assigned names.

10. It should be feasible to set a desired course of travel by accepting way-points and display a diagrammatic plot/ list of the same.

11. Heading arrow should be displayed on the map as per the direction of movement of the individual carrying the system. When the equipment is being moved, it should indicate the actual direction of move vis-à-vis the intended path by displaying both as lines in different colour. The actual move and the intended path should be plotted as a continuous line. The GNSS Receiver should have a minimum refresh rate of 10 Hz.

12. Deviation (configurable from 50 Cm to least possible) from the intended path should be indicated by a cautionary beep till correction is achieved:-

(a) **Essential**. Deviation of maximum 50 cm.

(b) **Desirable**. Deviation of maximum 20 cm.

13. In above condition, indicate with a sound and blinking light (with selective muting of both), the proximity to a designated point when reached within a desired distance (configurable from 50 Cm to least possible) from the designated point.

14. The system should take inputs in the form of digitised maps (DGN & SHP format) and superimpose all records on the map, when required. The equipment should be capable of superimposing geo-referenced satellite imagery on the digitised maps. Scroll down menu should be provided on the display for selection of the type of maps.

15. Updation of all details of a minefield on all recording devices should be possible in the field at the discretion of the users.

16. The software should be able to accept a pre-planned minefield alignment according to which a minefield is intended to be laid.

17. It should be possible to feed in the details of the minefield in the system before a team actually starts laying the minefield, so that during the actual laying, only individual mine details need to be inserted.

18. The enemy direction should be plottable on the work space/ outside the minefield record form. The software for GIS system used in the equipment should be provided alongwith integrity/ malware code certification issued by the competent authority.

19. The system should be able to create a buffer zone (showing alignment of a minefield lane or a gap) where no mines (not even the trip wires of a fragmentation mine) should be allowed by the equipment.

20. The system should display number of mines of each type laid and the frontage of minefield achieved when required.

21. The system should enable indication of laid mines from a minimum stand off distance of 3 m. It should indicate all mines which have exceeded their Self Neutralisation (SN) (if applicable)/ Self - Destruction (SD) (if applicable)/ Self Destruction – Activation (SDA) (if applicable) period distinctly for ease of recovery.

22. If laying/ recovery of a minefield is to be carried out over a number of days, number and location of mines which have already been laid/ recovered should be shown distinctly (day-wise).

23. The system should enable location of mines which have been displaced after laying. In built security measures must be incorporated in the equipment so that data on detectability of mines is only held with authorised Indian Army personnel.

24. The system must operate satisfactorily in wet conditions :-

(a) **Essential**. To record location of mines accurately during laying under wet / moist conditions.

(b) **Desirable**. To record location of mines accurately while laying as well as indicate location of mines during retrieval under wet/ moist conditions.

25. The system should have ingress protection (dust proof and precipitation proof) as per specification given below :-

(a) **Essential**. IP 66.

(b) **Desirable**. IP 67.

26. The system should not interfere with other electronic equipment in use or be interfered with by such other equipment and comply with relevant Electro Magnetic Interference/ Electro Magnetic Compatibility (EMI/EMC) standard of Indian Army as given below :-

(a) **Mil Grade Eqpt : EMC Eval.**

(i) **For System**. The system will be compliant to Military Standard 464 or equivalent.

(ii) **For Sub-system**. The sub-system will be compliant to Military Standard 461 or equivalent.

(b) **COTS Equipment**. The system will be compliant to CISPR series of standards of equivalent during the EMC evaluation.

27. The system should provide data collection, management, and navigation and file browser facilities.

28. It should have suitable interface/compatibility for getting connected to a variety of external devices through latest USB/Micro USB serial port and adapter for connecting to external device should be provided with the equipment. The key board or key pad or Touch Screen Key Board should enable the user to upload and down load data.

29. The system should have a Ruggedized Tablet PC with a colour display screen of a minimum size of 10 inch to view diagrammatic layout of complete mine field.

30. It should have facility to work by day (readable in sunlight) and night with suitable in-built illumination. The screen must have provision to shield the illumination so that it cannot be seen by a naked eye from a distance of 200m on a moonless night.

31. The equipment should operate on Windows/Linux (BOSS) (latest version and subsequent upgrades) based operating system for ease of interfacing with existing PCs and for downloading and processing of data. The equipment should have hardware of adequate specification to be able to run the present application as well as future upgrades without interruption during the life of equipment.

32. The equipment should have provision for backing up data.

33. In case there is loss of satellite signal or radio communication during use, the restoration of desired accuracy should take place within 10 seconds of satellite signal having been regained.

Physical Characteristics.

34. The system should meet the environmental specification as per relevant table of JSS 55555 (Revision 3 : 2012) and conform to international environment protection norms at the time of Trials and Delivery. Operating temperature will be as under:-

(a) Minimum - - 20^0C to -10^0C.

(b) Maximum - 40^0C to 45^0C.

35. It should have user-friendly interface and ergonomic design. It should have software and hardware upgrade facility. It should operate as a hand held instrument including its display screen and key board. Minimum of four serial ports should be provided on the receiver to ensure connectivity with other sensors.

36. It should have required harness and straps for comfortably operating the equipment. Carrying case should be provided for safe carriage of the equipum weight of equipment which is to be employed outside the minefield should be 10 Kg for operation mode and 15 Kg for transportation mode. Maximum weight of equipment which is employed inside the minefield should be as under:-

(a) **Operation Mode**

(i) Essential – 6 Kg.

(ii) Desirable – 4 Kg.

(b) **Transportation Mode**

(i) Essential – 10 Kg.

(ii) Desirable - 6 Kg.

37. **GNSS**.

(a) The equipment should be compatible with IRNSS and be able to provide accuracy as mentioned in Paragraph 21 using GNSS signals of :-

(i) **Essential**. All available GNSS constellations excluding IRNSS.

(ii) **Desirable**. All available GNSS constellations including IRNSS.

(iii) **Desirable**. Options for connecting GNSS devices using GSM and CDMA phones must be provided in the equipment as a plug and play system. Provision for securely disabling this facility must be incorporated.

38 The system should have provision to select the GNSS constellation(s) which will be utilised for operating the equipment.

39. The system should provide adequate protection against software/data corruption due to electrical spikes/ surges/ interference or due to unintentional wrong operation. There should be some provision in the system so that output digital data/file can only be accessed in the intended/designated system.

40. The equipment should work on commercially available rechargeable power packs. The system should be capable of operating continuously for eight hours at 27 $\pm$ 2^0C without any limitation. The system should have a sufficient power back up to cater for uninterrupted functioning of data during change of power pack. Two sets of rechargeable power packs & one charger per equipment must be provided.

Maintenance.

41. The instrument should be repairable at field workshop (EME) level in field. Special tools, stores for maintenance and repair of the instrument should be delivered as part of the equipment.

42. The system design should be modular and suitable containers/packing cases be provided for preserving the equipment when not in use.

43. The equipment should have Built in Test Equipment (BITE) to support diagnostics and repairs through module replacement in field. Audio/Visual alarm to be provided to indicate test failure.

44. The system should have protection /provision to prevent reverse polarity fitment for all PCBs/Cards/Cables/Batteries fitted in the system.

45. **Standard International System**. The proposed equipment and its component should confirm fully to Standard International (SI) System of units.

46. **Life**. Life of equipment should be as under:-

(a) Shelf life of equipment - 15 Years.

(b) Operational life of equipment - 15 Years.

Appendix 'B'
(Refer Para 18 of EoI)

INTELLECTUAL PROPERTY RIGHTS AGREEMENT

1. It is certified that 100% Intellectual Property Rights (IPR) for the design of the GPS and GIS Based Minefield Recording System is the property of M/s_____. It is acknowledged that the company will be disqualified from further participation if any information provided is found to be incorrect.

Signature with Company Seal

Appendix 'C'
(Refer Para 19 of EoI)

COMMERCIAL EVALUATION CRITERIA

1. Name of the Vendor,_____

2. Evaluation Criteria

Ser No	**Criteria**	**Vendor Submission**	**Reference** (Reference against vendor claim /response must be flagged and mentioned in this column)	**Remarks (if Any)**
(a)	Nature of the Company (refer Para 2(a) of Appendix A of Chapter III-A of DPP-2016)			
(b)	Ownership status (refer Para 2(a) of Appendix A of Chapter III-A of DPP-2016)			
(c)	Category of Industry (Large / Medium / Small / Micro).			
(d)	Registration Details			
(e)	Credit Rating			
(f)	Net worth ending 31st March of the previous financial year.			
(g)	Average annual turnover of the applicant company of the last three finacila years ending 31st mach of the previous financial year			
(h)	DIPP License details.			

Station : Signature Company Seal

Date :

Note :
1. All submission must be referenced documents duly authenticated.
2. Any input with incorrect or missing reference will not assessed..

Appendix D
(Refer Para 20 of EoI)

TECHNICAL EVALUATION CRITERIA

1. Name of the Vendor,_____

2. Evaluation Criteria

Ser No	**Criteria and Sub Criteria**	**Vendor Submission**	**Reference** (Reference against vendor claim /response must be flagged and mentioned in this column)	**Remarks (if Any)**
(b)	Confirmation of capability to develop and provide equipment to meet user requirements specified in Appendix A (Technical Specifications).			
(c)	Proposed system configuration (broad design details).			
(d)	Timelines.			
	(i) Timelines (in weeks) for development of prototype after issue of Project Sanction Order. Developmental milestones/ stages be provided with planned activities in each stage			
	(ii) Timelines (in months) for production and supply of 1840 Nos GPS and GIS Based Minefield Recording System. By 'Buy (Indian-IDD)' phase after conclusion of contract.			
(e)	Acceptance to all terms and conditions given in the EoI			

Station : Signature Company Seal

Date :

Appendix D
(Refer Para 20 of EoI)

TECHNICAL EVALUATION COMPLIANCE MATRIX

1. Name of the Vendor,_____

2. Evaluation Criteria

Ser No	Para No	PSQR Requirements	Vendor Response (Compliance / Partial Compliance / Non-Compliance)	Remarks (if Any)

Appendix 'E'
(Refer Para 22 of EoI)

INFORMATION PERFORMA

1. Name of the Company.

2. Name of CEO with Designation.

3. Address of the Registered Office.

4. Address of the Factory / Factories.

5. Company Website(s).

6. Date of Incorporation.

7. Brief History of the Company.

8. Category of Industry (Large / Medium / Small / Micro).

9. Nature of Company (Public Limited/ Private Limited).

10. Nature of Business (Manufacture / Trader / Sole selling or Authorised Agent/ Dealer / Assembler / Processor / Re packer/ Service Provider). Please give broad product range as applicable

11. Details of Current Products :-

    (a) Type / Description.

    (b) Licensed / Installed Capacity.

    (c) Annual Production for Preceding 3 Years.

12. Details of Foreign Collaborations if any planned for execution of project.

13. Technology Received from abroad and assimilated / planned for execution of project.

14. Products Already Supplied :-

    (a) To Indian Army / Air Force / Navy.

    (b) PSUs.

    (c) DRDO and its Laboratories.

    (d) Ordinance Factories.

    (e) Any other Defence Organisation.

    (f) To other Principal Customers.

15. Details of Developmental Facilities :-

(a) R&D Facilities Available.

(b) Number of Technical Manpower.

(c) Percentage of Total Tum-Over Spent on R&D during the Last Three Years.

16. Turn-Over during the last Three financial Years.

17. Any other relevant information.

18. Contact Details of the Executive nominated to co-ordinate with the Assessment Team (Please provide telephone, mobile and e-mail address).

Appendix 'F'
(Refer Para 30 of EoI)

CONFIDENTIALITY AGREEMENT

1. It is certified that Expression of Interest document for the project of GPS and GIS Based Minefield Recording System will not be shared with any agency in part or full any other agency. Only relevant details, as applicable, will be shared with technology partners including foreign technology partners. However, the EoI document itself will not be shared with any technology partners.

2. The company understands the security sensitivity of such an operational systems and any information pertaining to deployment and usage of the system including system scaling will not be discussed with third party without a written permission from the Project Facilitation Team. The company understands that failure to observe this agreement will lead to disqualification from the project.

Signature with Company Seal

Appendix 'G'
(Refer Para 34 of EoI)

CORRECTNESS CERTIFICATE

It is certified that information submitted in the documents as part of the response to Expression of Interest for the project of GP and GIS Based Minefield Recording System is correct and complete in all respects. It is acknowledged that the company will be disqualified from further participation if any information provided is found to be incorrect.

Signature with Company Seal