

MANDATORY INFORMATION FOR UPLOADING OF RFI

1. Tender Title (ECPS) : Naval Electronic Charts and Planning Systems
2. Tender Reference Number : WP/0246/ECPS
3. Tender Value : NA
4. Tender Type : Contract
5. Bid Process : 'Single Stage – Two Bid System'
6. Location : IHQ MoD (N)/DSR
7. First Announcement Date : Date of publication of RFI (**19 Nov 19**).
8. Last Date of Submission : Four weeks after publication (**17 Dec 19**).
9. Opening Date : NA
10. Brief Work Description Systems (ECPS) : RFI for Naval Electronic Charts and Planning Systems
11. Contact Address : Directorate of Staff Requirements
Room No 53 (A), 'A' Block Hutment
Dara Shukoh Road
New Delhi 110011
12. Contact Telephone Number : 23010904
13. Date for Pre-Bid Meet : NA
14. APSO Approval : Yes
15. DNI Clearance : Yes
16. DIT Clearance : Yes

WP/0246/ECPS

19 Nov 19

**REQUEST FOR INFORMATION (RFI) FOR PROCUREMENT OF
NAVAL ELECTRONIC CHARTS AND PLANNING SYSTEMS (ECPS)**

1. The Ministry of Defence, Government of India, intends to procure approximately 50 Naval Electronic Charts and Planning Systems (ECPS) for operational planning centres ashores and onboard ships.
2. This Request for Information (RFI) consists of two parts as indicated below.
Submission of incomplete response will render the vendor liable for rejection.
 - (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 brings out the methodology of response from the vendors.

PART - I

3. **Intended Use.** Naval Electronic Charts and Planning Systems (ECPS) is envisaged to be used to provide Electronic Chart System solution at Operational/planning centres ashore and onboard ships, in-lieu of paper charts for operational planning purpose.
4. **Important Parameters.**
 - (a) **Technical Parameters.** The technical parameters sought for the Naval Electronic Charts and Planning Systems (ECPS) are placed at **Appendix 'A'**. It is desirable that the system is in use by other Navies/Government agencies.
 - (b) **Overall Costing Philosophy.** Vendors are to include the cost of all systems/sub-systems, including onshore/onboard system/equipment, associated systems/devices, product support package, training, MRLS (OBS, B&D Spares) if any, in their costing philosophy.
 - (c) **Transfer of Technology (ToT).** The firms/vendors are to indicate their willingness towards scope, depth and range for Transfer of Technology for manufacturing, operation, maintenance and training.
 - (d) The vendor is required to indicate whether the equipment has been supplied by them to any other country and details thereof. The vendor may also

indicate if the equipment has been offered to any other Governmental agencies within India and if so, unit price (without taxes/custom duties) and year in which it was supplied. The differences between these versions of equipment and the equipment presently being offered may also be highlighted.

(e) **Field Evaluation Trials (FET)**. The firms/vendors are to indicate their willingness for the conduct of FET in India. The firm/vendors are to indicate the modalities for the conduct of FET. The firms/vendors are to specify parameters of the trials for which evaluation is proposed to be carried out by actual trials/demonstration/simulation/certification/documentation.

(f) **Manpower Requirement**. The firms/vendors are to indicate the proposed manpower requirement for operation, maintenance, ashore/onboard stowage of the proposed system.

(g) The procurement of the Naval Electronic Charts and Planning Systems (ECPS) would be guided by instant DPP-16 or as amended from time to time in future. All firms/vendors are advised to be conversant and in compliance with the same. If the vendor/firm is unable to comply with any provision/clause of instant DPP-16 or as amended from time to time in future, the same is to be indicated with reasons.

(h) **Delivery Schedule**. The RFP is likely to be issued in first half of year 2020. Vendors/firms to indicate tentative delivery schedule for supply of the equipment after conclusion of contract.

(j) The vendors/firms are to indicate acceptability to the terms of payment as per instant DPP-16 or as amended from time to time in future.

(k) The vendors are to indicate the approximate cost of the system as per quantities indicated in **Appendix A**. Tax/custom duty should be indicated separately.

(l) **Indigenous Content/Categorisation**. Vendor is to provide defining attributes as per **Appendix 'A' to Chapter II of DPP-16**. This is imperative for defining procurement category. The vendor is to provide suitable inputs towards arriving at categorisation with justification for not opting for a higher categorisation. The vendor is to also indicate willingness/unwillingness to indigenously design and develop the required equipment and the likely indigenous content percentage in the system, if under development.

(m) The vendor would also be required to impart training to the Buyer in operation of equipment and first line maintenance of the system.

(n) The vendors are required to indicate or otherwise to the conditions of the RFI and with all provisions of instant DPP-16 or as amended from time to time in future, and respond to the queries pertaining to the operational and technical requirements placed at **Appendix A**.

(p) Additional literature/equipment details may be submitted along with the response to RFI. Vendors may also utilise this opportunity to provide inputs wrt capabilities of the proposed system in order to classify the Services Qualitative Requirements (SQRs) under Essential Parameters - A, Essential Parameters - B as per Para 10 of Chapter II of DPP-16.

(q) Vendors/Firms are to provide an undertaking that they have not been banned/debarred from doing business dealings with MoD/Gol/any other Government organisation and there is no enquiry going on by CBI/ED/any other Government agency against them.

5. Vendors should confirm that following conditions are acceptable:-

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

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

(c) The equipment of all TEC cleared vendors would be put through Field Evaluation Trials (FET) on a No Cost No Commitment (NCNC) basis. A Staff Evaluation would be carried out by Indian Navy to analyse the result of field evaluation and shortlist the Battery Powered Self Propelled Lifebuoy for introduction into service. Towards this, the participating vendors are to forward a list of equipment that would be available for NCNC trials.

(d) Vendors are to confirm the feasibility to offer NCNC trials, including at sea, of proposed equipment in India, in exact configuration as proposed in response to the RFI. Alternatively, the differences between various configurations and their consequent costs may be highlighted. Vendors may clarify the proposed platform (naval/non-naval platform, demonstration of equipment already fitted on any other non-Indian Navy platform, etc) and venue (India) for conduct of FET.

(e) Amongst the vendors cleared by Field Evaluation Trials, a Contract Negotiation Committee (CNC) would decide the lowest cost bidder (L1) and conclude the appropriate Contract.

(f) Vendors would be bound to provide product support for the time period specified in the RFP, which would include spares and maintenance for 'Operator Level' and component level repairs.

(g) The vendors would be required to accept the general conditions of contract given in the Standard Contract Document at Chapter VI of DPP-16 available at www.mod.nic.in.

(h) **Integrity Pact.** An Integrity Pact along with appropriate IPBG is a mandatory requirement in the instant case iaw Annexure I to Appendix M of Schedule I to Chapter II of DPP-16.

(j) **Performance/Warranty Bonds.** Performance Bond cum Warranty Bond equal to 10 % value of the Contract is required to be submitted after signing of Contract.

(k) **Quantity.** The initial requirement of Naval Electronic Charts and Planning Systems (ECPS) is about 50 (fifty). The requirement would be recurring in nature.

(l) **Undertaking from Vendors.** All vendors are to submit undertaking that they have never been debarred in the past, as per provisions of instant DPP-16 or as amended from time to time in future.

(m) **Interaction with Vendors.** Vendors may have an interaction with the Directorate for seeking any clarifications on RFI. Detail of contact person/Project Officer for seeking any clarification is as follows:-

**Commander (SR) ND
Directorate of Staff Requirements
Tele 011 23010904**

(n) **Option Clause.** The vendors should confirm the acceptability/willingness for Option Clause for future procurement.

PART - II

6. Procedure for Response.

(a) Vendors are to fill the details as sought in ***Appendices 'A' & 'C' and the form of response as in Appendix 'B' of Chapter II of DPP 2016 (placed at Appendix 'B' to this RFI)***. Apart from filling exact details about the company, details about the exact product meeting generic technical specifications should also be carefully filled. Additional literature on the product can also be attached with the form.

(b) Vendors must fill the form as given in ***Appendix 'C'*** to enable Vendor Analysis prior issue of RFP.

(c) The response to the RFI and filled forms should be clearly labelled as **RFI RESPONSE – Naval Electronic Charts and Planning Systems (ECPS)** and dispatched to the following address: -

The Commodore Staff Requirements
Integrated Headquarters of Ministry of Defence (Navy)
Directorate of Staff Requirements (DSR)

'A' Block, Dara Shukoh Road
New Delhi 110011
Fax : +91-11-23010241
Email ID: dsr-navy@gov.in

(d) The expected date of response is four (four) weeks from the date of issue of this RFI/placement on MoD website. The vendors shortlisted for RFP would be intimated.

7. The Government of India invites responses to this request only from Original Equipment Manufacturers (OEM)/Authorised Vendors/Government sponsored Export Agencies. The end user of the equipment is Indian Navy.

8. The 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 stage. The Government of India also reserves the right to withdraw RFI or RFP, should it be so necessary, at any stage.

9. The acquisition process would be carried out under the provisions of instant DPP-16 or as amended from time to time in future.



(Amarjit Singh)
Commander
Cdr (SR) - ND

Appendix A to RFI

Refers to Sub-paras 4(a), 4(k),
4(n) and 6(a)

TECHNICAL PARAMETERS

ELECTRONIC CHARTS AND PLANNING SYSTEM (ECPS)

1. **Introduction.** The Naval Electronic Charts and Planning System (ECPS) system would assist shore based planners to undertake operational/route planning and disseminate the same to various units/operational centres. The Electronic charts and Planning System (ECPS) is a navigation information and planning system, which comply with the up-to-date chart regulation of 1974 SOLAS convention as amended. It displays selected information from a System Electronic Navigation Chart (SENC) or Raster Navigation Charts (RNCs) with positional information from DGPS (as applicable) to assist in route planning and sharing of the same with other ECPS and/or ECDIS.
2. **Performance Standards.** The ECPS should conform to the contemporary Performance Standards promulgated by International Maritime Organisation (IMO) and International Hydrographic Organisation (IHO) in addition to the requirements enumerated in the succeeding paragraphs:-
 - (a) IMO Resolution MSC. 232 (82) 2009 revised performance standards except Module C – interfacing and integration (Article 15.1 and 15.2).
 - (b) IHO Standards (S-63) or latest version of ENC.
 - (c) IHO Standards S-52 and S-64, as amended from time to time.
3. **Function.** ECPS should have capability to perform functions of Navigation and Route Planning besides having following fundamental features:-
 - (a) Ruggedised Laptop with ECDIS functionality for use as a planning tool to shore/operational planners with capability to interface with DGPS through suitable port.
 - (b) Display, update and manage fully digitised ENCs and/or Raster scan electronic charts in an IHO approved format. Display and presentation in IHO S-52 Preslib Edition 3.4 or upgrade and RNCS-61 (Product Specification for Raster navigation Charts) or an upgrade.

- (c) The system should be capable of transferring routes, waypoints, areas, geometrical shapes and other information created and stored on ECPS to other ECPS and ECDIS through all IMO approved formats.
- (d) The system should be capable of monitoring more than one route simultaneously.
- (e) The system should be able to read S-63 – IHO data Protection Scheme Edition 1.1.1 or an upgrade.
- (f) Colour vector and IMO compliant Raster chart representation.
- (g) Multi chart loading with auto loading of adjacent charts.
- (h) Zoom in/out and pan function on chart.
- (j) Review of chart element/chart scrolling with on screen help function.
- (k) Information on any charted element on the chart itself, including Lists of Lights, Sailing Directions etc.
- (l) North up/True motion mode representation.
- (m) WGS-84 geodetic datum and option to choose horizontal datum.
- (n) Planning and monitoring of multiple routes for voyage planning of fleet (more than one ship).
- (p) Renaming and labelling of routes, areas, maps and waypoints.
- (q) Availability of Military Layers for Navy specific Pilotage and Navigation procedures and fleet (tactical features) requirements, as highlighted below:-
 - (i) Drawing LOPs
 - (ii) LDL
 - (iii) Moving Heavens
 - (iv) Manual fixes
 - (v) Plotting wheel over points using Advance and Transfer
 - (vi) Creation of areas, shapes etc.

- (vii) Drawing of Weapon arcs etc
- (r) Availability of Total Tide Software.
- (s) Provision of Met and Astro Data through a compatible software (parameters can be updated inform of **patch updates** received on another internet PC loaded with software and patch ported to ECPS).
- (t) Connectivity to printer for print out of screen shots and selected information.
- (u) Play and replay functions akin to ECDIS.
- (v) Access control mechanism to prevent unauthorised access to the system.
- (w) Provision of capturing screen shots and porting them to PC.

4. **Technical Specification.** ECPS should have following additional technical specification:-

- (a) Configuration of Laptop should be minimum Intel Core i-5, 500 GB Hard Disk, RAM 8 GB or better/latest specifications and IMO compliant OS. Display should be minimum 15 inches. Displays should be able to show all IMO approved charts and chart elements, objects and colour representations.
- (b) ECPS should be capable of operating on 110 V and 230 V, 50/60 Hz power supplies catering for **IN** ships supplies.
- (c) Built-in Test (BIT) facility is to identify, locate and indicate to the operator any fault that has occurred in the system during the operations in all modes. BIT message shall be displayed at the bottom of the operator screen.
- (d) All interface ports/provisions should be documented along with their purpose and communication protocols. All unused communication port should be capable of being disabled through software/hardware, with provision to enable/disable these interfaces/ports.
- (e) The system should have facility for updating/patching the OS and application software. Mechanism for undertaking the same should be clearly outlined in system documentation.
- (f) The system should be capable of continuous operations for 4 days.

(g) Back lit Keyboard with brightness control facility for display and keyboard.

5. **Rugged Features.** The ECPS should be complying to following:-

(a) **Ruggedised.** The system should be MIL- STD-810 G, MIL-STD- 46 1F and IP 65 certified.

(b) **Environmental Specification.** The system should be able to operate in following conditions:-

(i) Operating Temp -10 Deg C to 55 Deg C

(ii) Humidity 95 % RH, non-condensing

INFORMATION PROFORMA (INDIAN VENDORS)

1. **Name, Address and Unique ID (if any) of the Vendor/Company/Firm.**

(Company profile including Share Holding pattern, in brief, to be attached. In the eventuality of the firm emerging L-1, Contract would be concluded in the name and address of the firm, as indicated here). Vendors are to submit an undertaking that any subsequent proposal for change in name of firm or address, will be intimated to IHQ MoD (N) at the first available opportunity and supporting documents be furnished within five working days of approval by relevant competent authority.

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 in Delhi (if any).**

Name & Address: _____
Pin Code: _____ Tel: _____ Fax: _____
Email : _____

5. **Financial Details.**

- (a) Category of Industry (Large/Medium/Small Scale): _____
- (b) Annual Turnover: _____ (in INR)
- (c) Number of employees in firm: _____
- (d) Details of manufacturing infrastructure: _____
- (e) Earlier contracts with Indian Ministry of Defence/Government agencies:-

Contract Number	Equipment	Quantity	Cost

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
DGS&D			
DGQA/DGAQA/DGNAI			
OFB			
DRDO			
Any other Govt 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 eg 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: _____

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

11. Any other relevant information: _____

12. **Declaration.**

(a) It is certified that the above information is true and any changes will be intimated within five (05) working days of occurrence.

(b) It is certified that design and development is indigenous and belong to the _____(Vendor) and/or _____(its Indian Sub Vendor). The Indigenous Content in said equipment is _____ % as on date and is likely to be raised to _____ % by _____ (date). The certification for the same is enclosed.

(c) It is certified that the complete set of design and production drawing are available and source code for all software applications/programmes are also available with the _____Vendor and that these would be produced for verification when required.

Note:- Certification for 12 (b) and (c) is required only if claiming IDDM category.

(d) It is certified that in the past, _____ (name of the firm) has never been banned /debarred for doing business dealings with Mod/Gol/any other Government organisation and that there is no inquiry going by CBI/ED/ any other Government agency against the firm.

Note: Para 44 and Appendix F to Chapter II of DPP-2016 may be referred.

(Authorised Signatory)

INFORMATION PROFORMA (FOREIGN VENDORS)

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

(Company profile, in brief, to be attached. In the eventuality of the firm emerging L-1, Contract would be concluded in the name and address of the firm, as indicated here). Vendors are to submit an undertaking that any subsequent proposal for change in name of firm or address, will be intimated to IHQ MoD (N) at the first available opportunity and supporting documents be furnished within five working days of approval by relevant competent authority.

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

Original Equipment Manufacturer (OEM)	Yes/No
Government Sponsored Export Agency	Yes/No (Details of Registration to be provided)
Authorised Vendor of OEM	Yes/No (attach details)
Others (give specific details)	

3. **Contact Details.**

Postal Address:-

City	: _____	Province	: _____
Country	: _____	Pin/Zip Code	: _____
Tele	: _____	Fax	: _____
URL/Web Site:	_____		
Email	: _____		

4. **Local Branch/Liaison Office/Authorised Representatives, in India (if any).**

Name & Address: _____
 City: _____ Province: _____
 Pin Code: _____ Tel: _____ Fax: _____
 Email : _____

5. **Financial Details.**

- (a) Annual Turnover: _____ (in USD)
- (b) Number of employees in firm: _____
- (c) Details of manufacturing infrastructure available: _____
- (d) Earlier contracts with Indian Ministry of Defence/Government agencies:-

Agency	Contract Number	Equipment	Quantity	Cost

6. **Certification by Quality Assurance Organisation (if applicable).**

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

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

- (a) Name of Product: _____
(Should be given category wise for eg all products under night vision devices to be mentioned together)
- (b) Description (attach technical literature): _____
- (c) Whether OEM or Integrator: _____
- (d) Status (in Service/Design Development Stage): _____
- (e) Production Capacity per Annum: _____
- (f) Countries where equipment is in service: _____
- (g) Whether export clearance is required from respective Government: ___
- (h) Any collaboration/joint venture/co-production/authorised dealer with Indian Industry (give details):
Name & Address: _____
Tel: _____ Fax: _____
- (j) Estimated price of the equipment: _____

8. Alternatives for meeting the objectives of the equipment set forth in the RFI.
9. Any other relevant information _____
10. **Declaration.**

(a) It is certified that the above information is true and any changes will be intimated within five (05) working days of occurrence.

(b) The _____(name of firm) has never been banned/debarred for doing business dealings with Mod/Gol/any other Government organisation and that there is no inquiry going by CBI/ED/any other Government agency against the firm.

Note: Para 44 and Appendix F to Chapter II may be referred.

(Authorised Signatory)

CRITERIA FOR VENDOR SELECTION/PRE QUALIFICATION

1. **Technical Parameters.**
 - (a) Number of years of experience in manufacturing of same/similar product.
 - (b) Details of manufacturing infrastructure for manufacturing the equipment.
 - (c) Quality Plan maintained by Vendor.
 - (d) Details of certification by Quality Assurance Agencies.
 - (e) Industrial License details at the time of submission of bid.
 - (f) Annual production capacity and capability to increase the production capacity to meet the delivery schedule requirements of Services.
2. **Financial Parameters.**
 - (a) **Turnover.** Turnover of Rs _____ Crs in last three years.
 - (b) **Capital Assets.** Capital Assets of _____.
 - (c) **Profit.** Profit/Loss in last three years.
 - (d) **Tax Return.** Copy of Income Tax Return filed during last three years.
3. **Additional Parameters.** In addition, information on credentials and status of the entity/Vendor may be obtained covering the following:-
 - (a) Projects/supply orders successfully executed in last five years.
 - (b) Annual reports of last five years.
 - (c) Shareholder information.
 - (d) Details of promoters, associated, allied and JV companies.
 - (e) Details of vigilance action viz ongoing investigation and suspension/debarment/blacklisting actions against the company, if any.
4. **Undertaking.** Prospective Vendors must submit an undertaking that information provided by them is correct.

