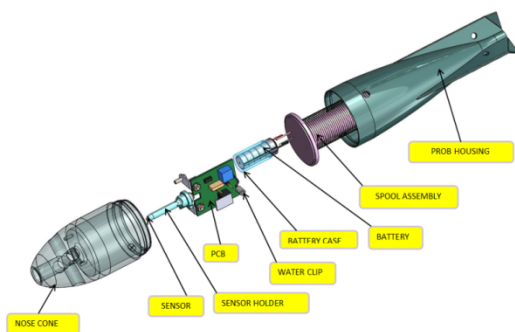


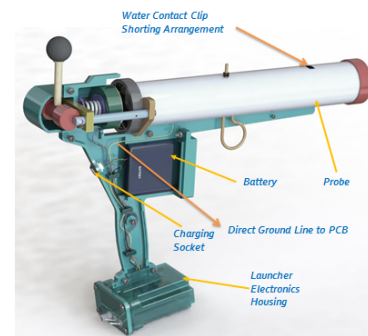
Expendable Bathy Thermograph – New Generation (XBT – NG)

DRDO has successfully indigenized the ASW capabilities of Indian Navy for last several decades. The study of oceans is an essential aspect from strategic, economic and ocean engineering points of view. At any given situation, the detection and discrimination of an underwater target is highly dependent on the propagation characteristics of the medium which depends on the in-situ data. Expendable Bathythermographs (XBT) are designed for rapid mapping of upper layer temperature which is cost-effective, robust, and easy-to-use instrument to estimate the sound speed profile for military application.

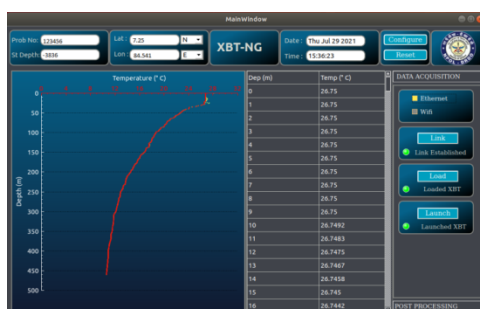
The newly developed XBT-NG system consists of a probe with integrated sensor, probe electronics and battery which is used to collect the temperature data and send onboard launcher using single wire telemetry. The probe will be launched from an aesthetically designed hand-held launcher having Ethernet and Wi-fi interface. The data will be transferred to Laptop/Deck unit using Wi-Fi/Ethernet. The Deck unit will send the data to PC/Laptop via ethernet communication. Human Machine Interface (HMI) in the PC/laptop presents the temperature profile received and also have command control as well the algorithms for Quality Check (QC), data blending (upto station depth) and sound velocity estimation. XBT-NG is intended to replace all the existing systems on board the Indian Naval ships.



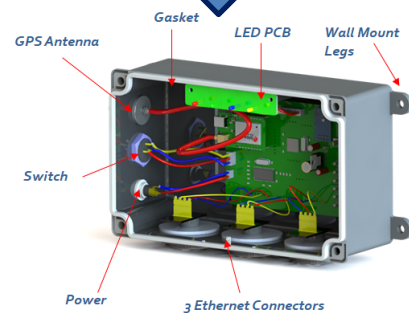
XBT-NG Probe



Hand-held Launcher



HMI



Deck unit

Interested Industries are requested to forward their Expression of Interest (Eoi) to Director NPOL, Kochi with a copy to Director DIITM, DRDO HQ (without attachment) on following address:-

Director

Naval Physical & Oceanographic Laboratory

Thrikkakara, Kochi-682021

Phone : 0484-2424878

Fax : 0484-2424858

E-mail ID: director[dot]npol[at]gov[dot]in

Copy to

Director

Directorate of Industry Interface & technology Management (DIITM)

Room No. 447, DRDO Bhawan, DRDO HQrs, Rajaji Marg, New Delhi-110011

Phone: 011-23013209/23015291

Fax: 011-23793008

Email ID: diitm[dot]hqr[at]gov[dot]in

All industries interested in seeking ToT are requested to apply in the format given below along with supporting documents (as applicable). Kindly provide reference of page no. of supporting document in the relevent field also. The list of documents to be attached is provided in Annexure - I.

PART-1

General Information

1. **Name of the Technology requested for Technology Transfer
(Technology name and concerned Lab, Category)**

2. **Name of the industry/ organization**

3. **Complete Address and other details
Registered Office**

State

Phone No

Fax

Email

Website

Factory

State

Phone No

Fax

Email

Website

4. **Point of Contact**

- Name
Designation
Address
Mobile No
Ph No
Email ID
5. **NAME OF CMD/ MD /PARTNERS/ PROPRIETOR/ etc**
Name
Designation
Address
Mobile No
Ph No
Email ID
6. **Date of Incorporation of company**
7. **Foreign Direct Investment in company (if any in %)**
8. **Shareholding pattern**
9. **Turn over as per Audited Balance Sheet for the preceding three years.**
Year _____
Year _____
Year _____
10. **Annual budget for R&D during last three years (if any)**
Year _____
Year _____
Year _____
11. **Income Tax returns for the preceding three years period**
Year _____
Year _____
Year _____
12. **Nature of company**
DPSU, Private Limited, Public Limited, Partnership, Proprietary,
Ex- Serviceman Unit
13. **Category of industry**
Large Scale, Medium Scale, Small Scale, Micro, Startup
14. **MSME Registration No**
15. **Certificates of registration as a manufacturing unit, if any.**
16. **If Startup, DPIIT Registration No**
17. **UDYOG AADHAR No**
18. **PAN Number**
19. **Details of Industrial license for defence manufacturing issued by DPIIT (if any)**
20. **Details of PESO license (if any)**

21. **GST Number**
22. **Nature of business**
Manufacturing/ Sole Selling or Authorized Agent/ Assembler/
Traders/ Dealer/ Processor/ Repacker/ Others
23. **Details of current products and services**
Products and services Supplied (please specify Govt/ Domestic
market/ Export)
24. **Record of past performance** (e.g., Supply orders executed
against of Ministry of Defence orders, Public Sectors and
Paramilitary Forces, if any).
25. **Details of registration with**
NSIC / SSI, DGS&D, other Defence Department, other Govt.
Dept, membership of FICCI/ASSOCHAM/CII or other Industrial
Association
(Attach relevant copies of registration letters)
26. **Have you already taken any technology from DRDO** (If yes,
give details attaching separate sheet)
Name of the Technology, Lab, Year, License number & Status
27. **ISO/ ISI certification or any other certification** (If yes, give
details)
28. **Relevant clearances form the authorities/ ministries** (if any)
29. **Capacity and capability to undertake developmental work
and to accept attendant financial and commercial risks.**
30. **Capacity/capability to market the product through the
marketing network, sales and service network, reliability to
maintain confidentiality.**

PART-2

Infrastructure and other Information

- (a) **Total area of factory**
Covered (m²),
Uncovered (m²),
Bonded space available (m²)
- (b) **Ownership of factory**
Self-owned, partnership, rental
- (c) **Electric power**
Sanctioned
Installed
Standby (if any)
- (d) **Availability of adequate infrastructure** (List of
machines and their production capacities) and
technical expertise
- (e) **Name of bank & A/c No**
Name of bank
A/c type
A/c no
Address of the bank
Phone: Email:

(a) Details of current products:

Sl.no	Type	Description	Licensed/installed capacity	Annual production for preceding 3 years
.				

(b) Details of foreign collaboration, if any

Sl.no	Product	Name & address of collaborator	Year	Remarks
.				

(c) Details of products developed for services

Sl.no	Nomenclature of stores	Order no and date	Remarks
.			

(d) Please give details of important facilities & infrastructure as per following format for:

- a. Production
- b. Unconventional, special m/c
- c. Testing & quality control facilities

Sl.no	Description of m/c	Make & model	Qty	date of purchase	Remarks
.					

(e) Furnish the following details with relevant certificates and documents

- a. R&D facilities available :
- b. Inspection quality control of raw material components :
- c. Assistance from central agency for testing / calibration etc. :
- (d) laboratory and drawing office facility :

(f) Principal customers:

Sl.no	Name & address	S.O No. & date	Date of last supply	Products supplied	Value
.					

(g) Future plan (if any) in respect of expansion programme installation of additional machines/ test facilities etc.

(h) Name of the technology requested for transfer (give self-assessment of your capability to absorb the technology)

(i) Details of employee as on date on firm's pay roll

PERMANENT				
Category	Post Held	Number	Qualification	Total Service
Technical	Prod. Manager Q.C. Manager Supervisor Testing Staff (Qc) Skilled workers Unskilled workers, etc.			
Administrative	Purchase Manager Accounts Officer Office Superintendent Clerical Others etc			

TEMPORARY				
Category	Post Held	Number	Qualification	Total Service
Technical	Prod. Manager Q.C. Manager Supervisor Testing Staff (Qc) Skilled workers Unskilled workers, etc			
Administrative	Purchase Manager Accounts Officer Office Superintendent Clerical Others, etc			

DECLARATION :

I / we confirm that the information furnished in Part 1 & 2 above is correct. In the event of any information given by me / us is found incorrect / false at any time, I / we understand our EoI for ToT will be cancelled/ rejected without notice, beside any other appropriate action against me / us.

Industry seal

Authorized signatory

Name(s) in capital
designation and seal of authorized
signatory

dated:
Place:

List of Support documents to be attached with EoI

- (a) Memorandum and Articles of Association (Should be incorporated as per Indian Companies Act, as amended time to time)
- (b) Certificates of registration as a manufacturing unit, if any.
- (c) Audited Balance Sheet for the preceding three years.
- (d) Income Tax returns for the preceding three year period
- (e) Details of shareholding/ownership pattern especially foreign partners/ shareholders, foreign employees, directors, etc. The company must adhere to the prevailing Govt of India policies and regulations on Foreign Direct Investment (FDI)/DIPP norms as applicable.
- (f) Annual budget for R&D during last three years.
- (g) Numbers and details of IPR or patents, etc., held by the company.
- (h) Number of technically or professionally qualified personnel.
- (i) Record of past performance (e.g., Supply orders executed against of Ministry of Defence orders, Public Sectors and Paramilitary Forces, if any).
- (j) Availability of adequate infrastructure (List of machines and their production capacities) and technical expertise.
- (k) List of Testing and Support equipment's
- (l) ISO/ ISI certification or any other certification
- (m) Relevant clearances form the authorities/ ministries (if any)
- (n) Capacity and capability to undertake developmental work and to accept attendant financial and commercial risks.
- (o) Capacity/capability to market the product through the marketing network, sales and service network, reliability to maintain confidentiality.
- (p) PESO and DPIIT license for explosive handling if ToT is for high energy Material, explosives, propellants, and component/ system dealing with it etc.
- (q) Under taking form company seeking ToT that none of its Directors, Independent Directors, non-executive Directors, Key management personnel are involved in any corrupt practices, unfair means and illegal activities.
- (r) Details of the industrials license for defence manufacturing be provided by the industry seeking ToTs.