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**Brief Scope of Work for Pre-Bid**  
**For**  
**Selection of Development cum Production Partner for**  
**Manufacturing & Supply of PWS Mechanical Assembly**



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## 1. Introduction

The PWS comprises of Mechanical, Explosive and Safety-firing subsystems. The PWS is a part of air launched weapon system being developed by DRDO. The Mechanical sub-system of PWS will be Developed, manufactured and supplied to TBRL, DRDO as per list of deliverables.

- i. Participation is requested from reputed Indian Public Limited/Private Limited Companies/Association of Companies/Consortium of Companies registered as Indian Firms having relevant expertise for the purpose of being selected as a “**Development cum Production Partner**” (DcPP) for a **Project PWS** for Indian Armed Forces. The responsibility of the selected DcPPs shall be in three phases as described below:
  - A. Phase I: Develop, manufacture and supply Mechanical subsystems of PWS as DcPP to TBRL, DRDO as per scope of work. **Preparation of documents as per the scope of work.**
    - A1. Instant Bid is phase I.
    - A2. All the interested parties are also required to give an undertaking to accept the responsibilities of PA(s) as described in Phase II & Phase III as given below.
  - B. Phase II: To act as the production Agency (PA) for the **PWS comprising of Mechanical, Explosive and Safety-firing subsystems.**
    - B1. Separate DcPPs shall be identified by TBRL, DRDO for the Safety-firing subsystem. ToT holders for the Explosive devices shall be identified separately as per ToT Guidelines of DRDO.
    - B2. DcPPs of Mechanical system of PWS, as PA(s) of PWS, shall be required to procure Explosives and Safety-firing subsystems from nominated firms (ToT holders and DcPP(s)) on cost basis. The PA(s) shall be required to enter into MoU with these respective ToT holder(s) and DcPP(s). TBRL, DRDO would provide details of ToT holders of explosives and DcPP(s) of Safety-firing subsystems to the PA(s).**
    - B3. The DcPPs of Mechanical systems of PWS can also apply and **is eligible to bid for ToT of Explosive items/ or DcPP of Safety-firing subsystem.**
    - B4. Separate RFP shall be taken out for Phase II. The DcPP identified during Phase I shall only be eligible for participating in RFP during Phase II.
    - B5. **Only the DcPPs/ PA(s) identified during Phase I shall be responsible for assembly and integration of all subsystems of PWS, integration tests and checkouts, conduct of static and dynamic performance evaluation trials at TBRL Range, Ramgarh and participation in the integration of PWS with the air launched weapon, integration and checkout of air launched weapons with the aircrafts, preparation of documents as per the scope of work.**
  - C. Phase III: After successful completion of development process i.e. validation trials of PWS system as per part of the air launched weapon system, further procurement action may be taken by the Armed forces. Phase III is not a part of this Bid **or subsequent RFP at this stage.**
- ii. The PWS is a part of air launched weapon system being developed by DRDO. During production phase, the PA(s) of PWS will supply the integrated PWS to Lead System Integrator (LSI) of air launched weapon system as per requirement.

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The PA(s) are required to give an undertaking about their unconditional willingness to enter into an MOU/ tie-up with the LSI of the Air launched weapon system (whenever identified by DRDO) **shall be signed between LSI & DcPP subsequently.**

- iii. Any Indian Company or consortium of companies (as per guidelines of DRDO PM-2020 and DAP-2020) from the manufacturing sector, having experience in the production of multi-disciplinary based engineering products relevant to defense/aerospace; integrated management experience, meeting the VQC criteria as per Appendix-D may respond.
- iv. Requirement of Industrial License, to manufacture Defense goods for sale to MoD (Ministry of Defense) Indian Govt. Agencies, and license for handling of explosives or MoU with a firm having requisite license will be mandatory<sup>1</sup>.
- v. The system shall be developed under “**Buy IDDM**” as per PM-2020 and DAP-2020.

## 2. Background

- i. Ministry of Defense has decided to involve Indian companies<sup>2</sup> during the development of the **Project PWS** along with DRDO as a Development cum Production Partner (DcPP) in order to train and transfer the **PWS** Production/Validation technology to the selected DcPP.
- ii. RFP will be issued by TBRL, DRDO along with scope of work to companies (Industry Partner) shortlisted based on eligibility criteria as stated in the VQC. Two (02) numbers of DcPPs can be selected for development of PWS and the contract may be split in 60:40 ratio as per Para 6.45.1 of PM-2020.
- iii. Technology Transfer (ToT) procedure is simplified and no ToT fee will be charged by DRDO from DcPP. Royalty charges are nil for sales to Defense services and Govt. of India departments.
- iv. Subsequent to completion of the developmental activities, Armed Forces may issue a separate RFP to the selected LSI/ PA/ DcPP for production orders (Phase III).

## 3. Role of DcPP

- i. The selected DcPP shall associate in the developmental activities of the PWS under DRDO's guidance for a **period of thirty two (32) months**, unless extended and equip themselves in System Integration, Qualification, Validation, Documentation, Supply chain interaction and Techno managerial activities.
- ii. During development, the selected DcPP will be required to position qualified personnel (approx nos. as per Appendix-B) **for at least thirty two months (or as notified in the contract) at TBRL Ramgarh, Distt. Panchkula, Haryana.**

<sup>1</sup>For final production, PESO/CFEES/Controller of Explosives, Nagpur/relevant authority licence will be mandatory. Firms who do not have the licence can also apply provided they obtain the same within one year of award of contract as DcPP and submit a notarised undertaking for the same.

<sup>2</sup>Indian company is defined as a company whose ownership of 51% or more is controlled by Indian residents

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- iii. On successful completion of development & demonstration of PWS, the selected DcPP will be nominated by DRDO to execute the production orders issued by Indian Armed Forces. Indian Armed Forces would be able to directly interact with the selected DcPP or through LSI for placing and executing production orders of PWS including life cycle and warranty support.

#### **4. PWS Components/ sub system**

- i. The PWS for development comprises of the following main components:
  - (a) Housing assembly (Type-1& 2)
  - (b) PC casing assembly (Type 1 & 2)
  - (c) Metal liner (Type 1& 2)
  - (d) Soft core (Type 1 & 2)
  - (e) Initiator housing assembly
  - (f) Interface tube
  - (g) Integration jigs, fixtures and tooling
- ii. The above components of PWS will be developed by selected DcPP along with TBRL, DRDO. During the project development phase, these items will be realized and integrated for developmental qualification of the PWS.

#### **5. Brief Scope of Work**

The brief Scope of Work applicable to the PWS during development/project execution phase<sup>3</sup> is mentioned below. Detailed scope will be elaborated in the RFP.

- (a) Familiarization with the BOM and Acceptance Testing/Qualification Testing requirements
- (b) Preparation of Production Files/documentation/drawings, etc.
- (c) System integration/ Interface activities.
- (d) Design of Jigs, Tools and Fixtures.
- (e) System/ subsystems AT/QT testing.
- (f) Interaction and follow-up with the supply Chain (to be developed) for realization of BOM.
- (g) System/ subsystems Integration and testing at TBRL and outstations.
- (h) System/ subsystems Verification/Validation trials.
- (i) Establish Infrastructure for Production, Integration facilities etc.: the selected DcPP should have/ develop the required facilities within 12 months after placing the supply order so that certain number of PWS can be integrated at industry partner's premises.
- (j) After being nominated as DcPP by DRDO, the industry partner will be permitted to develop/fabricate PWS for production order.
- (k) Techno-Managerial Activities – Interaction with DRDO.
- (l) During development phase, the project activities will be monitored/ reviewed by a DRDO management committee.

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<sup>3</sup> The work allocation and monitoring will be carried out by DRDO project team

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(m) Positioning of team of personnel as specified in **Appendix-B**. The selected DcPPs may need to extend the man power support till the completion of the project.

## 6. Company Information to be submitted with Pre Bid

Refer to VQC **Appendix-D**.

## 7. Terms and Conditions

- i. Interested firms are required to furnish company details as per **Appendix 'A'**.
- ii. DRDO reserves the right to reject any offer or proposal without assigning any reasons. **The marking methodology of Industry partners** is given in VQC **Appendix 'D'**.
- iii. Submission of Pre-Bid does not guarantee issue of RFP (Request for Proposal) document.
- iv. A technical interaction meeting may be conducted after receipt of response to Bid along with NDA (Non- Disclosure Agreement) with the shortlisted companies. Sample of NDA is attached at **Appendix 'C'**. The tendering process shall be initiated subsequently and RFP along with technical documents shall be issued only to the shortlisted industry partners. If any firm discloses information of NDA, it will be debarred from participating in tender and suitable action will be initiated.
- v. The basis for selection of DcPP will be detailed in RFP as per PM-2020 and DAP-2020.
- vi. The company shall submit a compliance statement for all the eligibility requirements (as given in VQC Appendix-D) with necessary supporting documents for scrutiny.
- vii. All disputes related to this tender will be resolved through DRDO approved procedure. In case of any disputes the decision of Secretary DD (R&D) and Chairman DRDO will be final and binding.
- viii. Bidders are required to furnish clause by clause compliance of specifications bringing out clearly the deviations from specification, if any, as per **Appendix 'E'**

## 8. Tender Submission Guidelines

1. Firm will submit the VQC document in response of Brief Scope of Work along with all necessary attachments and NDA for compliance of VQC by \_\_\_\_\_ (15 days from tender publish).
2. Posy submission of the VQC, the committee will scrutinize the VQC and documents submitted by the Industry partners.
3. The qualified Industry Partners will be informed to attend the Pre Bid meeting as per date and time mentioned in tender document, where, the detail technical scope of work will be provide to the Qualified Industry Partner for further participation in technical and financial bidding process. It is to be mentioned that only VQC qualified Industry Partners can participate further in procurement process.
4. Rejected Industry Partners will be informed by mail.

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5. Technical and Financial bid will be submitted only by Qualified Industry Partners as per the detailed scope of work within the stipulated timeline of tender.
6. Post technical bid opening, the technical evaluations of the bid will be carried out and the financial bid of the technical Qualified Industry Partners will be opened and will be processed further.