

NO. OFDC/09/05/PTC/MOULD/18-19

Dated 18/01/2019

Annexure for NIEoI

(Information for submitting EoI BY Interested Parties)

1. Introduction:-

- 1.1 Ordnance Factory Dumdum (OFDC) is under Ordnance Factory Board (OFB), Kolkata which is part of Department of Defence Production, Ministry of Defence, Govt. of India.
- 1.2 OFDC under the umbrella of OFB is a nodal factory for production of different types of polymer based critical components used in ammunition & weapons for defence purpose. Dimensional accuracy and surface integrity of component and are very vital for proper functioning of different systems of defence items.
- 1.3 The requirement under this scope of work is to study the detail 2D drawings (to be provided by OFDC) of the components and thereafter design, manufacture, testing & trial and supply of moulds.

2. Requirement:-

- 2.1. Annual requirement: 10 moulds (approximately)
- 2.2 Weight of components for which mould required: 10 gm to 03 kg.
- 2.3 Material to be moulded: Different types of polymer granules/powder, virgin or filled.
- 2.4 Firm should have to deliver moulds as per mutually decided delivery schedule. Firm has to submit activity and time schedule/detail within 01 week of acceptance of S.O.

3. Scope of work:-

The scope of work includes following main activities:-

1. Study of the 2D drawings of components.
2. Preparation of 3D model.
3. Design of mould.
4. Mould flow analysis of the mould and defining of moulding parameters.
5. Submission of mould drawing and design data to OFDC.
6. Manufacturing of moulds and other accessories.
7. Inspection and trial of moulds.
8. Submission of moulded components along with inspection report for inspection at OFDC.
9. Packaging and supply of moulds to OFDC.
10. Commissioning and trial of mould at OFDC.
11. Training for operation and maintenance to the OFDC employees.
12. Support and supply of spares.
13. Submission of mould maintenance manual.
14. Any other work deemed required for said objective.

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4. Bidder's profile & qualification criteria:

A) Technical Criteria:-Following technical criteria are require:-

- 1) Bidder should have past experience (minimum 03 years) of design, analysis and manufacturing of all types of moulds (i.e. hot runner, auto ejection) for critical polymer based components. Firm has to submit list of supply orders details successfully executed in last 03 years.
- 2) Bidder should have successfully supplied moulds or moulded components to leading manufacturer. Firm has to attach list of their customers along with S.O. details.
- 3) Bidder should have essential licensed software like 2-D /3-D software, mould flow analysis software or any other software required as per scope of work. Firm has to submit list of software along with licence details.
- 4) Bidder should have in-house state of the art tool room machining facility like EDM, VMC, Universal grinding machine, polishing machine etc. Firm has to submit list of machines along with capacity, make, quantity and year of commissioning
- 5) Bidder should have suitable engineers having domain experience in the requisite field. Firm has to submit details of man power along with their qualification and experience.
- 6) Bidder should have injection moulding machines for trial of moulds (or having any collaboration with other firms).Firm has to submit details of machine list along with make and capacity (in case of collaboration supporting document to be submitted).
- 7) Bidder should have in-house robust quality control system.

B) Firm has to provide all documentary evidence in support of meeting the above criteria/profile.