

**QUESTIONNAIRE FOR 6MW DIESEL ENGINE (MAKE -I)**

<u>Ser</u>	<u>Determinants</u>	<u>Firm's Remarks</u>
<b><u>Company Details</u></b>		
1.	Name and registered office address	
2.	Factory/ Work address	
3.	Category of industry – Large scale/ SME/ MSME	
4.	Details of Supply Orders executed in last 03 yrs	
5.	Organisation structure and details of manpower held:- (a) Technical – Skilled and unskilled. (b) Administrative.	
6.	Past business details with <i>IN</i>	
<b><u>Financial Status</u></b>		
7.	Profit and Loss Account	
8.	Average Annual Turnover, in last 03 years	
9.	Present Net worth	
10.	Present source of finance and borrowing limit (Bank details)	
<b><u>Technical Details</u></b>		
11.	Competence in engine design, manufacture and simulation of Diesel engines and associated control and monitoring system.	
12.	R&D capability and facilities:- (a) Details of R&D infrastructure held (b) Details of technical manpower held for R&D efforts	
13.	In-house manufacturing facilities and infrastructure:- (a) Forging (b) Casting (c) Machining (d) Heat treatment (e) Metallurgy (f) CAD/CAM (g) Robotics (h) Tools/ Metrology (facility and calibration accreditation)	
14.	In-house testing facilities	

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15.	<p>Capabilities to design and manufacture sub-assemblies and components:-</p> <p>(a) Broad list of sub-assemblies and components designed and manufactured in-house.</p> <p>(b) Broad list of sub-assemblies and components outsourced from Indian/ foreign manufacturer.</p>	
16.	Capability to produce engines to IMO Tier III specification	
17.	Details of IPR held	
18.	Details of IPR translated to field products	
19.	<p>Quality Assurance:-</p> <p>(a) Organisation structure of QA and QC department.</p> <p>(b) Compliance to ISO 9001:2015 Quality Management system (Certificate to be enclosed)</p> <p>(c) Are the manufacturing/ assembly processes statistically quality controlled.</p> <p>(d) Are all Critical to Quality Processes (CTP) and parameters Critical to Quality (CTQ) identified.</p> <p>(e) Is the process Capability index (Cpx) measured and ensured more than 1.33.</p>	
20.	<p>Broad plan/ roadmap for design, development, manufacture and delivery of 6MW Diesel Engine along with associated Control and Monitoring system:-</p> <p>(a) Technologies to be acquired/ imported towards development of engine.</p> <p>(b) Envisaged indigenous content.</p> <p>(c) Capability of integrating the engine with propulsion package.</p> <p>(d) Mode of participation: Single/ JV.</p> <p>(e) In case of JV – List of joint partners.</p> <p>(f) Estimated time for completion of initial design.</p>	
21.	Estimated timelines for prototype development with milestones	
22.	Estimated timelines for production of final product as per IN requirement, post successful prototype development	
23.	Details of standards to be followed for development, manufacture and testing of engine and its control system.	
24.	Envisaged indigenous content in the main engine and controls	

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25.	<p>Adequacy of infrastructure capabilities for engine production and spare manufacture to meet <i>I/V</i> requirements:-</p> <p>(a) Requirement of setting up of new assembly line or augmenting/repurposing the existing assembly line.</p> <p>(b) Requirement of erecting a new test bed or augmenting/ repurposing the existing test bed.</p>	
26.	<p>Costing:-</p> <p>(a) Cost of prototype development and their basis.</p> <p>(b) Cost of final product and their basis.</p>	
27.	<p>Roadmap for providing onsite after-sales basis:-</p> <p>(a) Spares (indigenous and imported)</p> <p>(b) DI and repair services.</p> <p>(c) Capability to undertake AMC/ RRC/RC</p>	
28.	<p>Any other details that the vendor like to put forwards to the feasibility study board</p>	
29.	<p>Contact details</p>	<p>Name of Officer – Cdr Deepak K  Designation - Cdr (Marine Engg)-Indg  Tele No. – 011-23010092  Fax No. – 011-23011352  Mobile No. – 8130025847  Email ID – <a href="mailto:dme-navy@nic.in">dme-navy@nic.in</a></p>