Technology Development Fund (TDF) Scheme

Consolidated Evaluation Criteria

S No.	Criteria	Weightage
Design Capability (Total 60 Marks)		
1	Proposed Configurations	15
2	Approach to Meet Functionalities	15
3	Indigenous Design Capability in the subject field	15
4	Total No of patents translated into product in the subject field and total No proposed to be utilized for the project	2
5	% proprietary items	3
6	R&D expenditure as % of turnover on Strategic / Defense Systems	2
7	R&D Infrastructure existing related to subject field	3
8	Inter-Operability across the Services	3
9	Execution of projects pertaining to critical technology area	2
Fabrication and Manufacturing Capability (Total 25 Marks)		
10	Execution of projects for military users in India and abroad	8
11	Execution of projects for other users in India and abroad	8
12	Components manufactured indigenously relevant to the project	5
13	Indigenous manufacturing capability (plant and machinery) relevant to the project	4
Maintainability & Life Support (Total 10 Marks)		
14	Proposed methodology for life cycle support	5
15	Indigenous content (Components and others) in execution of the project	3
16	Plan proposed for executing current project- Adherence to Timelines, Minimization of slippage, Cost Overruns	2
Commercial Criteria (Total 5 Marks)		
17	Nature of Company (Weightage shall be given to MSMEs and Start-ups)	3
18	Net Profit in last 3 years	1
19	Turnover in last years	1
Total Marks		**100**

Note: Minimum Qualification marks is 60 out of 100 for DPR

Evaluation Criteria Guidelines

A. Design Capabilities

1. **Proposed Configuration:** The proposed technical solution by the industry will be evaluated based on one or combination of the following methodology adopted by industry and final marks will be based on the merit of the proposed technical solution.
   i. Revolutionary change (Develops a new technology, hitherto unknown in the world, basis for new patents (technological developments)
   ii. Structural/ Design change (Leads to significant improvements in known technology or processes)
   iii. Architectural change (Leads to improvements in known technology or processes)
   iv. Reverse Engineering (uses known technological process in an innovative manner)

2. **Approach to meet functionalities:**
   i. Proposed configuration with low risk
   ii. Proposed configuration with medium risk
   iii. Proposed configuration with high risk
   iv. Proposed configuration with severe risk

Approach to meet Functionality					
	Severe Risk (2)	**4**	**6**	**8**	**10**
	igh Risk (4)	**6**	**8**	**10**	**12**
	Medium Risk (6)	**8**	**10**	**12**	**14**
	ow Risk (7)	**9**	**11**	**13**	**15**
		Reverse Engineering (2)	**rchitectural Change (4)**	**tructural / Design Change (6)**	**evolutionary / Disruptive Change (8)**

Proposed Configuration

Fig 1: Matrix between risk and configuration

3. **Indigenous design capability:** This parameter refers to the capacity of the industry to use the indigenous components / parts/sub-systems and modules to realize the system so that the capacity to design,

manufacture and maintain the defence systems, technologies and equipments within the country rather than relying solely on imports.

i. Number of systems / sub-systems designed and developed in subject field
ii. Plan to utilize indigenous components and sub-systems
iii. Number of dedicated manpower for R&D in subject field and their expertise

(Maximum number of indigenous components and dedicated manpower will be taken as reference and then accordingly rest proposals will be given marks proportionately*)

4. **Total No. of patents translated into product in the subject field and total number proposed to be utilized for the project**

Total No. of patents granted or filed nationally/ international in the subject field relevant to the project to be considered

(Maximum number of patents filed/ granted will be taken as reference and then accordingly rest proposals will be given marks proportionately*)

5. **% of Proprietary items (No. of items) proposed to be used in the proposed project**

Proprietary items are the assets of the company for which IPR rest with company in terms of Patented inventions, Copyrighted work, Trademarks, Trade secrets, Proprietary technologies, Customized / Specialized Products)

(Maximum value in percentage will be taken as reference then accordingly rest proposals will be given marks proportionately*)

6. **R&D expenditure as % of turnover on Strategic and Defence systems**

(Maximum expenditure in terms of % will be taken as reference and then accordingly rest proposals will be given marks proportionately*)

7. **R&D infrastructure existing related to subject field**

(Maximum value / number will be taken as reference and then accordingly rest proposals will be given marks proportionately*)

8. **Inter-operability across the Services**

Prospects of using developed technology for various military / paramilitary users and other civil applications in terms of following:

a. Easy/ simple – 03 marks
b. With little difficulty – 02 marks
c. With more difficulty – 01 marks

9. **Execution of projects pertaining to critical technology areas in the subject field**

Number of projects executed pertaining to critical technology areas in the

subject field of users in India or abroad and their details
(Maximum number of projects will be as reference and then accordingly rest proposals will be given marks proportionately*)

B. <u>Fabrication and Manufacturing Capability</u>

1. **Execution of projects for military users in India and abroad:**
Number of development projects executed for military users in India or abroad and their value in terms of Indian currency
(Maximum number of projects will be as reference and then accordingly rest proposals will be given marks proportionately*)

2. **Execution of projects for other users in India and abroad:**
Number of development projects executed for other users (other Ministries/Department in India or abroad and their value in terms of Indian currency
(Maximum number of projects will be as reference and then accordingly rest proposals will be given marks proportionately*)

3. **Components manufactured indigenously:**
Components manufactured indigenously and their value in terms of Indian Currency
(Maximum number will be taken as reference and then accordingly rest proposals will be given marks proportionately*)

4. **Indigenous manufacturing capability:**
The value of plants and machinery in terms of Indian Currency and their details
(Maximum value in terms of Indian Currency will be taken as reference and then accordingly rest proposals will be given marks proportionately*)

C. <u>Maintainability & Life Cycle Support</u>

1. **Proposed methodology for life cycle support:**
The intended system/subsystem/component/technology will have a life cycle generally above 15 years accordingly it has to be kept upto date and serviceable for the period of its use. The necessary logistics and engineering support is to be provided and the methodology for the same be given in detail.

2. **Indigenous Content (Components and others) in execution of the project:**
The general philosophy of TDF is to source critical components indigenously and use commercial of the shelf components (COTS) which are easily available from multiple sources without inviting any denial regimes. Therefore weight-age will be in accordance with this principle.

(Maximum value of indigenous content will be taken as reference and then accordingly rest proposals will be given marks proportionately*)

3. **Adherence to timelines, minimization of slippages and avoidance of cost overruns:**
   The project management methodology be given in detail highlighting Adherence to timelines, minimization of slippages and avoidance of cost overruns

D. <u>Commercial Criteria</u>

1. **Nature of Company**
   SMEs and Startups – 03 marks
   Medium – 02 marks
   Large – 01 marks

2. **Net profit in last 3 years:**

   Net profit for last three years on 31st March of previous year (in case of Business entity which is formed within three years; then applicable will be submitted)
   (Maximum value in terms of Indian Currency will be taken as reference and then accordingly rest proposals will be given marks proportionately*)

3. **Turnover in last 3 years:**
   Turnover in relation with nature of business for last three year on 31st March of previous year (in case of Business entity which is formed within three years; then applicable will be submitted)

   (Maximum value in terms of Indian Currency will be taken as reference and then accordingly rest proposals will be given marks proportionately*)

***Imp Note: Max. number/value projected by any participating industry in DPR in any field pertaining to this project will get Maximum marks defined in Evaluation criteria against that field and then accordingly rest proposals by other industries will be given marks proportionately as follows:**

90-100% of max: Full marks
75-89% of max: 75% of Full marks
50-74% of max: 50% of Full marks
25-49% of max: 25% of Full marks
0-24% of max: 0 marks

Note: For startups and SMEs (Small & Micro Enterprises), any criteria pertaining to prior experience or turn over will be exempted and full marks may be given, unless specified otherwise in specific project case by DTDF with prior approval of Competent Authority.