



सॉफ्टवेयर टेक्नोलॉजी पार्क्स ऑफ इंडिया
 (इलेक्ट्रॉनिकी और सूचना प्रौद्योगिकी मंत्रालय, भारत सरकार के अन्तर्गत स्वायत्त सोसाइटी)

Software Technology Parks of India

(An Autonomous Society under Ministry of Electronics & Information Technology, Govt. of India)

eFile No. STPI/HQ/TECH/EMC/SCH/2022-2023/6/16647

Date: 04.01.2024

To,

Sh. Anand Rajagopalan,
 Chief Executive Officer,
 M/s. T-Works Foundation,
 Survey no. 83/1, Raidurgam, Knowledge City, Ranga Reddy District,
 Hyderabad, 500081, Telangana

Subject: Modified Electronics Manufacturing Clusters (EMC 2.0) Scheme-Approval for setting up of Common Facility Centre (CFC) at Hyderabad Knowledge City, Raidurg Village, Serilingampally Mandal, Hyderabad, Ranga Reddy District, Telangana-500081 -reg.

References:

- i. EMC 2.0 Scheme Gazette Notification no. 86 [CG-DL-E-01042020-218991] dated 1st April, 2020;
- ii. Guidelines for implementation of Modified Electronics Manufacturing Clusters (EMC 2.0) scheme dated 1st June, 2020 [F. No. W-45/3/2020-IPHW-MeitY];
- iii. T Works Foundation CFC Online application submission dated 8th December, 2022 along with Detailed Project Report (DPR) and subsequent correspondences thereto;
- iv. Project Review Committee (PRC) meeting dated 3rd March, 2023 and subsequent submission thereafter;

Sir,

Reference is invited to application submitted by M/s T Works Foundation, as Project Implementing Agency (PIA) cited under reference (iii) above and subsequent communications for seeking financial assistance under the Modified Electronics Manufacturing Clusters (EMC 2.0) Scheme from the Ministry of Electronics and Information Technology (MeitY), Government of India for setting up of Common Facility Centre (CFC) project at **Hyderabad Knowledge City, Raidurg Village, Serilingampally Mandal, Hyderabad, Ranga Reddy District, Telangana-500081**. The said CFC application along with requisite documents submitted by M/s T Works Foundation, has been considered in accordance to EMC 2.0 scheme & Guidelines and based on the assurances & commitments made therein, I am directed to convey the approval of Ministry of Electronics and Information Technology (MeitY), Government of India for setting up of Common Facility Centre (CFC) project over an area of **1 Acre** with a **project cost of Rs. 104,63,00,000/-** (Rupees One Hundred Four Crores and Sixty-Three Lakhs Only) [excluding land cost] including **Central Financial Assistance of Rs. 75,00,00,000/-** (Rupees Seventy-Five Crores Only) from Ministry of Electronics and Information Technology (MeitY).

3/01/23 1/4/24



2. The parameters of the project are mentioned hereunder:

#	Project Parameter(s)	Details
i.	Project Implementing Agency (PIA)	M/s T Works Foundation
ii.	Location of CFC	Hyderabad Knowledge City, Raidurg Village, Serilingampally Mandal, Hyderabad, Ranga Reddy District, Telangana-500081 (Latitude: 17°26'08.5"N Longitude: 78°22'40.4"E), (Site Coordinates: 17.4357 78.3779)
iii.	Area of CFC	1 Acre (<i>Layout attached at Annexure-I</i>)
iv.	Testing Facility in CFC	<ul style="list-style-type: none"> • PCB Fabrication (upto 12 layers) • Cabinet Prototyping (Finish Shop, Plastics and Composites, Wood-shop, Laser Engraving) • Metal Shop • 3D Printing • Advanced Rapid Prototyping • Testing Lab (Environmental, Reliability, Metrology, Materials) • Electronics Assembly, Test & Measurement Lab • Prototyping Garage space (Assembly, Disassembly) • Co-working & Administration Facility, Design & Simulation Workstation, Innovation Management etc.
v.	Implementation Timelines	24 months from date of approval

TERMS AND CONDITIONS:

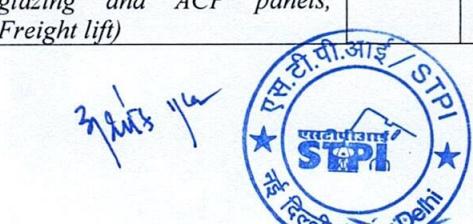
- The approval and financial assistance for this project are subject to compliance by M/s T Works Foundation to the Modified Electronics Manufacturing Clusters (EMC 2.0) Scheme and Guidelines including amendments, if any, issued by the Government of India from time to time and the terms and conditions stipulated hereinafter.
- The financial assistance has been approved on basis of the eligible activities, break-up of project cost, and funding pattern submitted by M/s T Works Foundation, appraised by Project Management Agency i.e. PMA-STPI, New Delhi and approved by MeitY under the EMC 2.0 Scheme which is tabulated hereunder. M/s T Works Foundation will comply with the eligible activities, the break-up of project cost, and the funding pattern as provided herein.

Amount: In Rupees

Project Component(s)	Unit	Quantity	Per Unit Price	Processing / Non-Processing Activity	Cost	Central Financial assistance
A. Vital Services						
A.1 Water Treatment Plant KLD)(Raw water pump of	Softener/Plant	LS	3,93,000	Processing	3,93,000	2,78,000



Project Component(s)	Unit	Quantity	Per Unit Price	Processing / Non-Processing Activity	Cost	Central Financial assistance
Supply, Installation, Testing and commissioning of raw water pump of 3m ³ /hr @ 2.5-3.0 kg/cm ² and motor rating of 0.7 KW. MOC of pump shall be CI (1Working +1Standby) specs, Pressure Sand Filter, Activated Carbon Filter, Softener Chlorine Dosing System and Electrical Panel)						
A.2 HVAC (VRV) System- 100 Ton (SITC of Variable Refrigerant Flow System Including Outdoors and Indoors with top discharge package consisting of 100% inverter compressors, condensers, fans, control panels, shifting etc).	No's	1	2,07,50,000	Processing	2,07,50,000	1,46,55,000
Sub-Total (A)				2,11,43,000	1,49,33,000	
B. Essential Services						
B.1 Lighting (A SP095V LED 40S 865 W7L120 PSU WH Philips lighting fixtures along with suspension kit)	No's.	200	3,600	Processing	7,20,000	5,09,000
B.2 DG Set (1,250 KVA Open DG Set comprising of Cummins make engine model KTA-50-G3 developing 1470 BHP Coupled to 1250 KVA, 415V Stamford make alternator mounted on a common base frame)	No's	1	1,61,89,198	Processing	1,61,89,000	1,14,33,000
B.3 UPS (100 KVA online three phase UPS with SMF battery along with PRS configuration & SNMP Card for Communication)	No's	1	17,83,000	Processing	17,83,000	12,59,000
Sub-Total (B)				1,86,92,000	132,01,000	
C. Desirable Services						
C.1 Manufacturing Support Services						
C.1.1 Building Work (Outpost)	S.Ft.	31,500	3864.28	Processing	12,17,25,000	8,59,68,000
i) Civil Works (Earth work in RR walls & column foundations, Plain cement concrete, Reinforced cement concrete work, Reinforcement steel, Masonry, Finishing Work, Flooring, Joinery works, Painting, False ceiling, Canopy and roof, Metal staircase, Rest room cubicles, Structural steel works in columns and beams, Structural glazing and ACP panels, Freight lift)	S.Ft.	31,500	2280.53	Processing	7,18,37,000	5,07,35,000



Project Component(s)	Unit	Quantity	Per Unit Price	Processing / Non-Processing Activity	Cost	Central Financial assistance		
ii) Plumbing and Fire Fighting	S.Ft.	31,500	214.22	Processing	67,48,000	47,66,000		
iii) Internal Electrification	S.Ft.	31,500	252.02	Processing	79,39,000	56,07,000		
iv) External Electrification	S.Ft.	31,500	39.37	Processing	12,40,000	8,76,000		
v) Fire Fighting and Protection /Alarm System	S.Ft.	31,500	420.03	Processing	1,32,31,000	93,44,000		
vi) Industrial Building Management System (IBMS)/ Fire Alarm & Paging Alarm (FAPA) / CCTV/Lighting arresters	S.Ft.	31,500	210.02	Processing	66,15,000	46,72,000		
vii) Double Girder Electrical Operated Trolley (EOT) crane Capacity 5T Span 18 +/- 0.2 Mtr. Lift height 6.5 mtr. (2 No's)	No's	2	70,57,512	Processing	1,41,15,000	99,68,000		
C.1.2 Lab Equipment/Machinery (As per Annexure-III)					82,38,50,000	58,18,44,000		
a) PCB Fabrication	No's	2	LS	Processing	4,84,92,000	3,42,47,000		
b) Cabinet Prototyping	No's	17	LS	Processing	9,54,84,000	6,74,36,000		
c) Metal Shop	No's	9	LS	Processing	14,34,33,000	10,13,00,000		
d) Testing Lab (Environmental, Reliability, Metrology, Materials)	No's	15	LS	Processing	16,51,45,000	11,66,34,000		
e) Electronics Assembly, Test & Measurement	No's	1	LS	Processing	1,71,07,000	1,20,82,000		
f) Advanced Rapid Prototyping	No's	6	LS	Processing	4,69,17,000	3,31,35,000		
g) 3D Printing	No's	7	LS	Processing	22,56,55,000	15,93,68,000		
h) Design and Simulation workstation	No's	5	LS	Processing	76,33,000	53,91,000		
i) Design Software	No's	16	LS	Processing	6,14,84,000	4,34,23,000		
j) Power tools	No's	LS	LS	Processing	1,25,00,000	88,28,000		
C.1.3 Furniture and Fixtures (Co-working space and Garage Space- As per Annexure-IV)		LS		Processing	2,33,90,000	1,65,54,000		
D. Administrative Cost	LS			-	3,75,00,000	3,75,00,000		
Grand Total (A+B+C+D)					104,63,00,000	75,00,00,000		

5. The details of funding for the project approved by the competent authority under the Modified Electronics Manufacturing Clusters Scheme are provided in the table hereunder.

S. No.	Funding Sources	Amount (Rs. in Crore)
1	Central Financial Assistance from MeitY	75.00
2	Contribution from State Government of Telangana	29.63
	Total	104.63

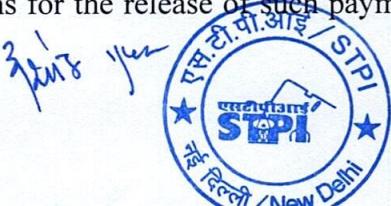
6. **Implementation schedule:** The project components wise implementation schedule for the project is provided hereunder. M/s T Works Foundation will undertake to implement the project within



the approved timelines. In the event of considerable and persistent delay in the project, action will be taken in accordance to EMC 2.0 Scheme and Guidelines

- (a) Total duration of the project – 24 months from date of approval
- (b) Project Component-wise implementation timeline as per *Annexure-II*.

7. The PIA i.e., M/s T Works Foundation will execute an agreement with the Project Management Agency i.e., STPI, Delhi for proper utilization of financial assistance wherein it will undertake to abide by the terms and conditions specified in the approval letter, the terms of the Scheme and guidelines or any instructions issued by the MeitY through PMA on time to time. In the event of failing to comply with any of the conditions; it will be treated as a breach of the agreement, and in such condition, PIA i.e., T Works Foundation will be liable to refund to the President of India, the entire amount of the financial assistance together with the penalties or interest (*as applicable*) imposed by the Governing Council on account of breach of the agreement.
8. The PIA will create an Escrow Account with a Bank (*Nationalized or Commercial*) and provide the details thereof to the PMA. The PMA shall enter into a Tripartite Escrow Agreement with the PIA, and the Bank, where the escrow account of the PIA is maintained, for proper utilization of the funds.
9. M/s T Works Foundation, shall ensure that besides other beneficiaries, the following unit (s) who have given consent to utilize the facility, leverage the facilities in the CFC:
 - Greenko Energies Private Limited
 - RAC Energy (*Brand of Reddy Automotive Pvt. Ltd.*)
 - Radiant Appliances and Electronics Pvt. Ltd
 - Srilin Electronics Pvt. Ltd.
 - Sturdy Volt Pvt. Ltd.
 - Trishula Advanced Composites & Electronics Pvt. Ltd.
 - Vasantha Tool Crafts Pvt. Ltd.
 - Vector Technic Pvt. Ltd.
 - Vidhata Plastics India Pvt. Ltd.
 - Vivid Plastics Pvt. Ltd.
 - Anvation Labs Pvt. Ltd.
 - Bhagawati Products Ltd.
 - Gravton Motors
10. The disbursement of financial assistance will be made on pari-passu basis i.e., all proportionate payments to be released after the mobilization of corresponding share/contribution by PIA i.e., M/s T Works Foundation along with other sources in the escrow account and other necessary conditions for the release of such payments as prescribed in EMC 2.0 Scheme Guidelines have



been complied with. The same is to be applicable to all the installments with effect from the first installment to be released to the PIA. The deposits in the escrow account shall be utilized only for authorized expenditure as per project approval.

11. The first installment i.e., 30% of the financial assistance will be released after compliance of terms & conditions as mentioned in this approval letter and fulfilling of the below mentioned criteria's:

- i. Submission of NoC from Pollution Control Board for outpost.
- ii. Execution of agreement(s) with PMA spelling out explicitly the project deliverables and timelines.
- iii. Opening of designated escrow account in nationalized /commercial Bank and execution of Tripartite Escrow Agreement for such escrow account among T Works Foundation, PMA and Bank (Escrow agent).
- iv. Deposition of pari-passu contribution in Escrow Account or submission of sanction order issued by State Government for transfer of the pari-passu contribution in favour of M/s T Works Foundation towards the said project.

12. The second Installment i.e., 40% of the financial assistance will be released on compliance of the following conditions:

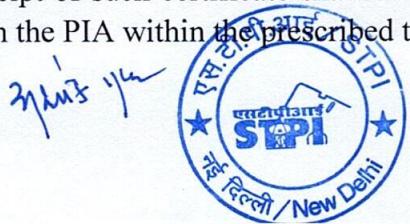
- i. After utilization of 80% of first installment and proportionate contribution of the PIA including other sources;
- ii. Initiation of procurement process for the equipment / machinery i.e., finalization of selection of vendors / suppliers;
- iii. Deposition of pari-passu contribution in Escrow Account or submission of sanction order issued by State Government for transfer of the pari-passu contribution in favour of M/s. T Works Foundation towards the said project, and;
- iv. On recommendations of the Project Review Committee (PRC)

13. Third (last) Installment i.e., 30% of the financial assistance will be released on compliance of the following conditions:

- i. After utilization of the first and second instalment of financial assistance and the proportionate contribution of the PIA including other sources;
- ii. Deposition of pari-passu contribution in Escrow Account or submission of sanction order issued by State Government for transfer of the pari-passu contribution in favour of M/s. T Works Foundation towards the said project;
- iii. On completion of the project in line with Clause 9.2 of EMC 2.0 scheme Guidelines as follows:
 - a) Completion of infrastructure activity as per project approval;
 - b) Installation of at-least 50% of the machinery/ equipment and completion of procurement process for the balance machinery/ equipment;
 - c) Signing of agreements for utilizing the CFC facilities by at-least 5 beneficiary units;
 - d) Adequately listing and publishing of CFC services for general information; and
 - e) Any other condition as deemed necessary by PRC in the interest of the project.



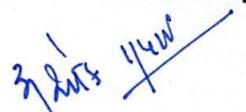
14. Securing funds for any enhancement in the overall cost of the project will be the responsibility of the PIA. The financial assistance for the project from Government of India shall be limited to the approved amount as per this approval letter.
15. In the event of reduction of cost in a project component(s), the financial assistance will automatically get reduced on pro-rata basis for that project component(s).
16. It will be the responsibility of the PIA to obtain necessary approvals and clearances required for the project (*as applicable*) before or during (*as the case may be*) the implementation of the project but not later than the release of last instalment of financial assistance.
17. The PIA will submit the "Utilization Certificate" on the basis of audit done by Chartered Accountant in accordance with General Financial Rules (GFR), 2017 and other terms and conditions/rules as prescribed by Ministry of Finance and Ministry of Electronics and Information Technology, Government of India, on time to time.
18. The PIA shall maintain separate books of accounts of the Government financial assistance and furnish audited statements of accounts from time to time. These audited statements of accounts should be furnished after utilization of each instalment/ tranche of instalment or whenever called for.
19. The PIA may seek reimbursement of the expenditure made on the approved project / project components in case the PIA intends to make upfront expenditure on the implementation of the project. However, PIA will have submitted the application under the Scheme prior to incurring any expenditure on the project. The submission of such an application does not guarantee any approval and any such approval will be subject to the issue of a formal approval letter in accordance with the scheme parameters. Expenditure made after the issuance of the acknowledgment will be eligible for reimbursement.
20. The PIA will submit Quarterly Progress Reports (QPRs) on quarterly and regular basis and will also be responsible to submit the project implementation status /reports to MeitY/PMA on time to time or as and when asked for. PIA will continue to submit the Quarterly Progress Report (QPRs) for at-least one year after completion of the project.
21. The accounts of PIA shall be open for inspection by the Ministry of Electronics and Information Technology and audit, both by the Comptroller and Auditor General of India under the provision of CAG (DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry of Electronics and Information Technology as and when deemed necessary. Ministry of Electronics and Information Technology shall also have the right to appoint an agency for undertaking such audit.
22. M/s. T Works Foundation will submit the Utilization Certificate (UC) along with requisite documents immediately after utilization of funds or before the closure of the financial year. Receipt of such certificate shall be scrutinized by PMA. Where such certificate is not received from the PIA within the prescribed time, the MeitY will have liberty to take necessary action and



- may consider blacklisting such PIA from any future grant, subsidy, or other type of financial support from the Government of India.
23. The PIA will undertake all procurement of goods, equipment and services or any other item through a transparent and competitive procurement process. Appropriate performance guarantees should be built in the agreement (*as the case be*) to ensure timely and good quality delivery of goods and services procured.

24. In case Government of India is of the opinion that the implementation of the project or operation of the PIA is not satisfactory, the Government of India would have the powers to cancel the project or appoint a new project implementing agency for completion of the project.
25. The assets acquired wholly or substantially out of Government funding should not, without the prior sanction of the Government, be disposed of, encumbered or utilized for the purpose other than for which the funds have been released.
26. A register of permanent and semi-permanent assets acquired wholly or mainly out of the funds be maintained in accordance of the GFR. A return of such assets acquired during a financial year should be furnished in accordance of the General Finance Rules (GFR), Ministry of Finance.
27. In case of winding up, dissolution, etc. of the PIA, at any point in time, all assets and any unutilized grant shall automatically vest with the Government of India.
28. In case of any conflict or dispute between PIA and PMA, conflict should be resolved mutually. In case of failure of mutual resolution, the matter will be dealt as per Arbitration clause in Agreement to be signed/signed (*as the case be*) between PMA and T Works Foundation (PIA).

Yours sincerely,


(Ashok Gupta)

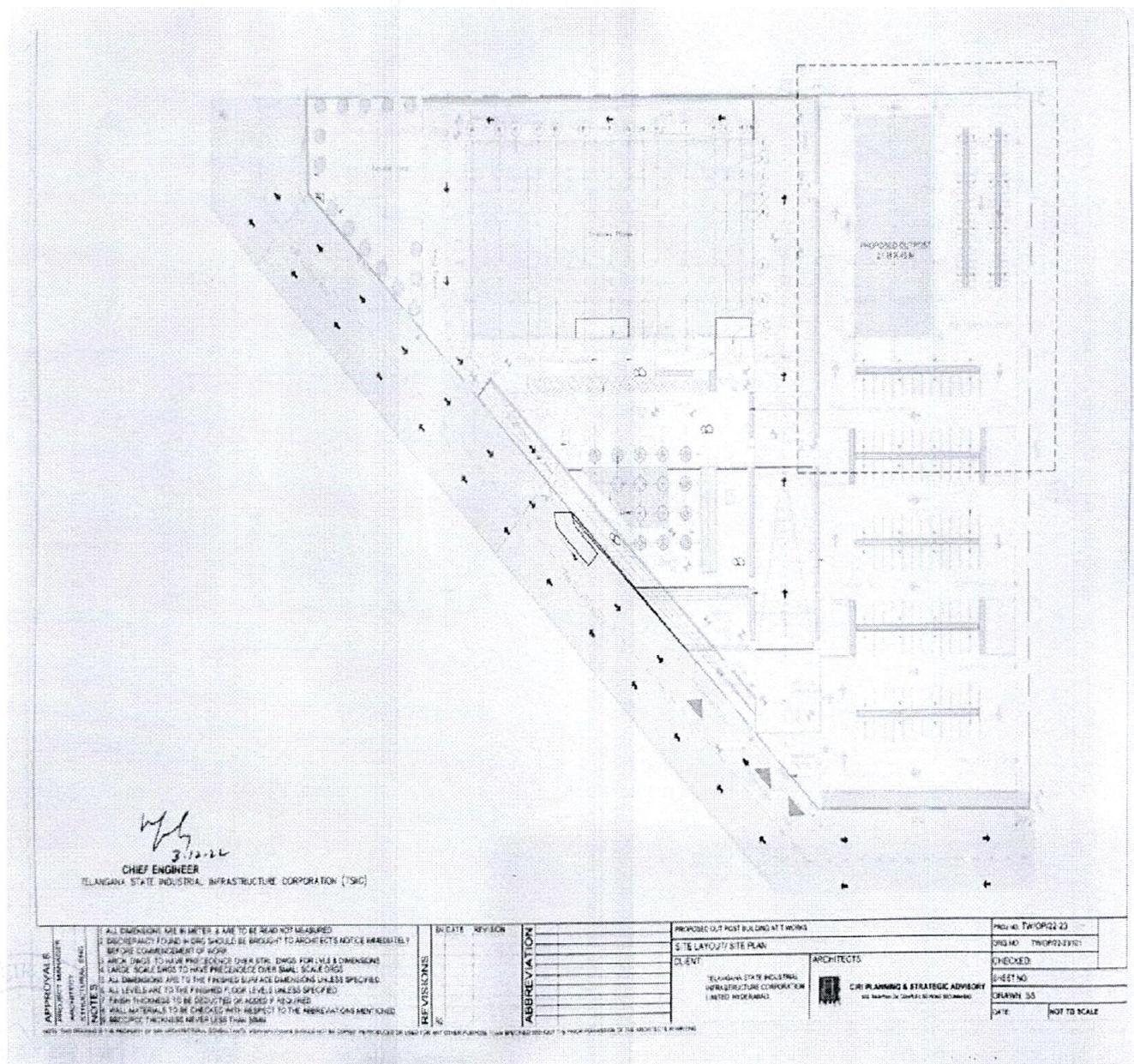
Director

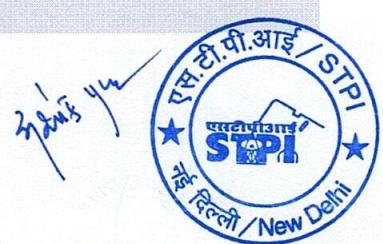
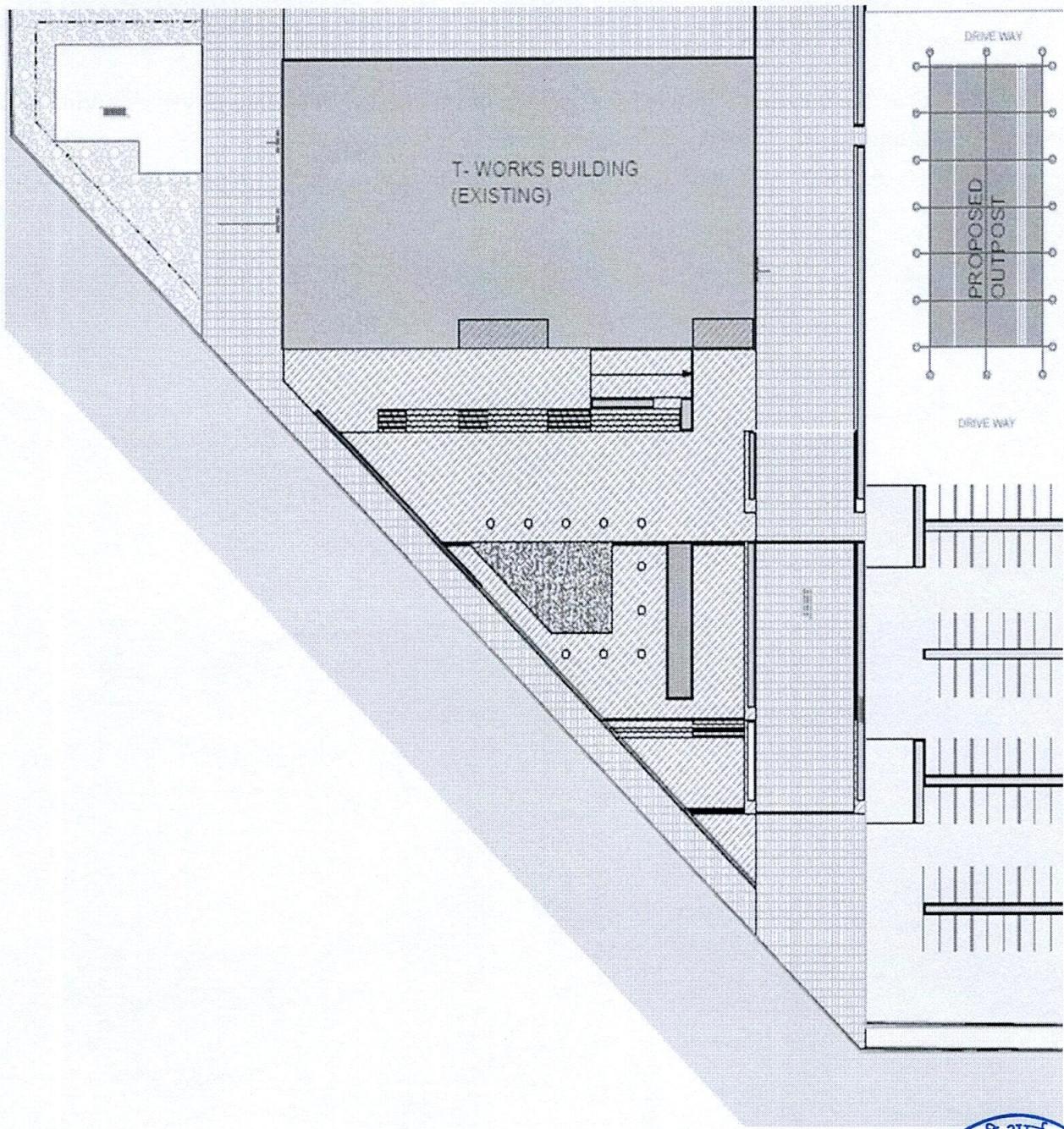
Copy to:

- i. Secretary, MeitY
- ii. AS (BK), MeitY,
- iii. JS &FA, MeitY
- iv. GC(AN)/Dir (NK)/SC-D (NKG), MeitY
- v. Principal Secretary, Information Technology, Electronics & Communication and Industries & Commerce Department, Government of Telangana

अशोक गुप्ता / ASHOK GUPTA
निदेशक / Director
सॉफ्टवेयर टेक्नोलॉजी पार्क्स ऑफ इंडिया
फ्लॉट-बी, प्रथम तल, ऑफिस ब्लॉक-1, पूर्वी किल्डवे नगर
नई दिल्ली-110023 / New Delhi-110023

**Layout of CFC at Hyderabad Knowledge City, Raidurg Village, Serilingampally Mandal,
Hyderabad, Ranga Reddy District, Telangana-500081**





Implementation schedule for CFC at Hyderabad Knowledge City, Raidurg Village, Serilingampally Mandal, Hyderabad, Ranga Reddy District, Telangana-500081

Project Implementation Schedule

S. N	Task	M 1	M 2	M 3	M 4	M 5	M 6	M 7	M 8	M 9	M 10	M 11	M 12	M 13	M 14	M 15	M 16	M 17	M 18	M 19	M2 0	M2 1	M2 2	M2 3	M2 4
I	Sanction of Project	★																							
II	Civil Works																								
III	Industry Consultation																								
	Stakeholder Meetings with Industry on Quarterly basis																								
IV	Procurement and Installation of Equipment Set 1																								
1	Validation of Machinery Requirement																								
2	Identification and evaluation of Vendors																								
3	Procurement of Machinery																								
4	Installation of Machinery																								
5	Trial Runs																								
IV	Procurement and Installation of Equipment Set 2																								
1	Validation of Machinery Requirement																								
2	Identification and evaluation of Vendors																								
3	Procurement of Machinery																								
4	Installation of Machinery																								
5	Trial Runs																								
V	Trial Run																								
	Defining usage protocol and Standard Operating procedures (SOPs)																								
	Training and skilling																								
VI	Onboarding Partners																								
	Identification of partners, MSMEs, Startups, Corporates, Institutions, etc.																								
VII	Commissioning of Project																								★

★	Milestone
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List of equipment /machinery

S. No.	Equipment (s)	Specification	Quantity	Amount (In Rupees)
A. PCB Fabrication				
A.1	PCB Printer	Silver ink PCB printer	1	4,92,000
A.2	PCB Fabrication Lab	Direct Imaging, Hydraulic Vacuum Multilayer Press with CNC Drilling and Routing and a PTH unit with vibration, finishing, stripping, immersion Ni/Au for 12-layer advanced PCB fabrication etc.	LS	4,80,00,000
Sub-Total (A)				4,84,92,000
B. Cabinet Prototyping				
B.1	Planner	Equipment with latest technology for wood shop	1	15,51,000
B.2	Thicknesser		1	22,27,000
B.3	Band Saw		1	6,34,000
B.4	Wide belt sander		1	22,11,000
B.5	Oscillating Sander		1	4,46,000
B.6	Sanding table		1	3,44,000
B.7	Height Adjustable worktable with multiplex top		3	20,63,000
B.8	Height Adjustable worktable with multiplex top, With Panel Tilting Option with crossbars		3	19,88,000
B.9	Height Adjustable worktable with multiplex top		3	9,75,000
B.10	Sliding Table Panel Saw		1	11,29,000
B.11	Vacuum Casting Equipment	Pressure vacuum casting machine, Resin mixing, color matching equipment	1	48,43,000



3/10/14

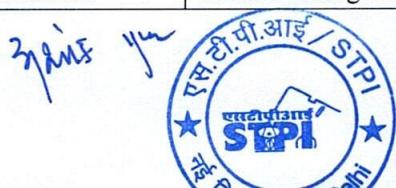
S. No.	Equipment (s)	Specification	Quantity	Amount (In Rupees)
B.12	Powder Coating Setup	Powder coating: 2.2kW power rating, 1.44mx1.53m, closed powder cycle 100% powder recovery, 4m ³ /h suction, 80l powder container.	1	49,49,000
B.13	Bead Blasting Setup	Bead blasting: overall dim – 925mm x 1240mm x 1980mm, chamber dim - 790mm x 790mm x 850mm; door opening – 690mm x 750mm, 350kg max load, power supply – 230V/0.65kW, air consumption +/- 3 cubm at 4 bar.	1	24,86,000
B.14	Mold Making CNC	CNC Routing (available) with shaping, sanding, jointers, planers, band, and table saws for making molds and enclosures for high-end consumer 4 electronic products.	1	4,68,74,000
B.15	Precision Making CNC		1	1,79,25,000
B.16	Spray Painting Setup	Basic version of ID suspension booth, Part No: 3057190	1	36,01,000
B.17	Fiber Laser Marking Machine FL20	Air-Cooled 20Watt IPG Pulsed Fiber Laser, Controller, Software + Computer, LCD Monitor, Footswitch, Autofocus Galvo Head, and a Motorized Z Axis	1	12,38,000
		Sub-Total (B)		9,54,84,000

C. Metal Shop

C.1	PEM nut Inserter Pemserter	Series 4 machine along with Tool Package, Bottom Mount Reverse Flange Anvil Holder and PEM Fasteners Prototype Kit	1	12,84,000
C.2	CNC Press Brake	80 tons, 2.5m bending length, automatic angle compensation	1	2,49,38,000
C.3	CNC Tube & Sheet Fiber Laser	Laser wavelength of 1070nm and power of 3000W with a cutting ability of 0.5-22mm Carbon Steel, 0.5-14mm Stainless Steel, 0-10mm Brass	1	1,81,25,000
C.4	Shop Floor Style CMM with Reverse Engineering Scanner	TESA TKJ PROBE KIT includes - 3mm, 6 mm ruby & 15mm steel ball probe for Calibration, 7 Axis, 8320 Portable ARM Series Probing Machine	1	54,44,000
C.5	Basic 3-axis CNC Mill	10,000 RPM Spindle with a 55 Gallon cool tank and various control options	2	1,62,00,000
C.6	5 Axis CNC	Super-Speed 5-Axis CNC Vertical Machining Center with 50" x 30" x 28" (1270 x 762 x 711 mm) travels, cabinet cooler and a M130 media display	1	5,86,77,000
C.7	Water Jet Cutter	Max traverse speed 12.7m per minute with a MAXJET® 5i nozzle with diamond orifice, Whip style high-pressure plumbing and an OMAX patented motion control software, can cut any material using water and abrasive garnet.	1	1,44,38,000
C.8	Stud Welding Gun	A lightweight handheld gun which has a welding range of Studs and pins from M3 - M10 or 2 - 8 mm in diameter and 6 - 35 mm in length.	1	7,23,000
C.9	Laser Welding Machine	1.5kW, IPG laser source, with wire feeder, passive cooling, max weld thickness: 6.3mm steel, 5mm titanium and nickel alloys, 3mm aluminum, 2mm copper	1	36,04,000
		Sub-Total (C)		14,34,33,000

D. Testing Lab (Environmental, Reliability, Metrology, Materials)

D.1	High Speed Camera set	10,000 fps camera with recorder. Example of applications include testing designs of circuit breakers by observing the arc	2	29,59,000
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S. No.	Equipment (s)	Specification	Quantity	Amount (In Rupees)
		formation, MEMS sensor behavior.		
D.2	Gyro for Drone development	Development tools for UAV programming and design	1	27,00,000
D.3	Advance Pre-Compliance	Various equipment for ensuring the prototypes meet the required compliance	LS	15,94,86,000
D.3.1	Environmental Stress Chamber (Temperature & Humidity Chamber)	<p>Model - ARL-0680-AE, Inside capacity: 680 Ltr., Dimensions (W x H x D) : 850mm x 1000mm x 800mm , Temperature range: -45 to +180° C, Temp. Fluctuations: ±0.3K Temp. Gradient : 3.0 K Maximum load current: 23 Amp, Temp. variation in space: 3 K, Heat up rate:6.3 %/min from -22.5 to +157.5 °C, Pull down rate : 5.8 °C/min , Heat up time :From +20°C to +180°C within 30 min , Pull Down time: From +20°C to -45°C within 50 min. Allowable Heat load Temp range: Test area temp +20°C: 4500W,</p> <p>Humidity Range :10 to 98%rh , Humidity fluctuation :± 2.5%rh Allowable heat load : Test area conditions: +85° C/85%rh : 500W , Noise level : 61 DB</p> <p>Cable ports 100mm (1 on left side & 1 on right side) , ESPEC Touch screen, Interactive controller, Interface-Ethernet , Stainless Shelf with brackets 1 no.</p>	1	99,86,387
D.3.2	Environmental Stress Chamber – (Temperature & Humidity Chamber)	<p>Model-ARS – 1100 - AE, Temp. range :-75 ° C to 180 ° C . Humidity range :10 to 98% rh , Internal capacity : 1000 Ltr. Heat up rate: 4.7°C/min (-49.5 to +154.5 ° C), Pull down rate: 4.1°C/min , Heat up time :From +20 to +180 °C within 40 min Pull down time :From +20 to -75 ° C within 50 min , Allowable Heat load Temp range: Test area temp +20°C: 4500W, Power supply: AC 400V ±10% of rated voltage, 3ph, 50Hz</p> <p>Humidity Range :10 to 98%rh , Humidity fluctuation :± 2.5%rh Allowable heat load : Test area conditions: +85 ° C/85%rh : 500W , Noise level : 63 dB</p> <p>Cable ports 100mm (1 on left side & 1 on right side) , ESPEC Touch screen, Interactive controller, Interface-Ethernet , Stainless Shelf with brackets, P-300 controller for remote operation</p>	1	64,83,701
D.3.3	Thermal Shock Chamber	<p>Model: TSA-103EL-A, System : 2-zone system by means of damper switching, For 3-Zone test, "Ambient temp. exposure to be opted, Dimensions (W x H x D):650 mm x 460 mm x370 mm, Test Basket Volume : 110 Ltr., Low temperature exposure range:-65 ° C to 0 ° C , High temperature exposure range: +50 to 200 ° C, Damper Switching/ Transfer Time : >10 Sec. Temperature recovery time : < 5 Min, Test Area Load Capacity: 50 Kg, USB memory port, Ethernet port (LAN)</p> <p>Power Supply: AC 400V, 3 Ph, 50Hz ; Maximum noise level : 65 dB; Weight of chamber: 1050 Kg</p>	1	82,48,200



S. No.	Equipment (s)	Specification	Quantity	Amount (In Rupees)
D.3.4	Electro-dynamic Vibration shaker	<p>Shaker: System model; A11/EM1HAG, Max. Frequency in Hz= 4500 Rated force: Sine in kN= 11, Random in kNrms= 11, Shock in kN= 22(16.5) ; Max. acceleration: Sine in m/s²= 1000, Random in m/s² rms= 630, Shock in m/s² peak= 2000(1500) ; Max. Velocity (continuous) in m/s= 2 Max., Velocity (peak) in m/s= 2.5 (3.5) ;Max. Displacement in mm pk-pk= 51 Max., Payload in kg= 200 Power Requirement in kVA= 20.4,</p> <p><i>Application: To optimize the energy consumption of the vibration test system.</i></p> <p>Vibration Generator: Armature Mass in kg= 11 Armature Diameter in mm= 210 , Allowable Eccentric moment in Nm= 294</p> <p>Power Amplifier : Model-EM1HAG-A11 -Digital switching amplifier 12 kVA Output in 19" rack , Switching frequency in Hz: 150k Number of racks: 1 , Dimension in mm: approx.W 580 x H 1950h x 850 Weight in kg: 470</p> <p>Cooling –Air Cooling & Blower : Cooling Blower included silencer Blower motor in kW= 4, Dimension in mm: . 1023x2285x531 Weight in kg= approx. 150</p> <p>Standard cable set-Optional 5m drive and interlock cables Length approx. 5 m;</p> <p>Electric rotation of shaker , Automatic Centre Positioner, K2+ Single axis vibration controller ,K2+ I/O Module , Software (SINE, Random & SHOCK), Accelerometer; Calibration of accelerometers, Low-noise coaxial cable , RT(Slip) Table , Heat Expander</p>	1	2,89,13,872
D.3.5	Vibration Simulation System	<p>Shaker: I230 System model i230/SA2M (Shaker model i230) Rated force -Sine in kN = 16 Random in kNrms = 16 Shock in kN = 32 Armature Diameter in mm = 200 Max Frequency in Hz = 3000; Max Sine Acceleration in m/s² = 1250 Max Random Acceleration in m/s² = 875, Max Shock Acceleration in m/s² = 2500 Armature Mass in kg = 12.8; Max. Velocity (continuous) in m/s = 2.2 Max. Velocity (peak) in m/s = 2.2; Max Displacement in mm pk-pk = 51 Max. Payload in kg = 300 ; Allowable Eccentric moment in Nm = 700 ; Rated force of Random excitation as per ISO5344 standard.</p> <p>Thermal isolation for shaker (Direct coupling); Cooling Blower including silencer Acoustic noise = 76+3 dB(A), Blower motor 3.7 kW, Weight approx.140 kg; Digital switching amplifier 20 kVA Output in 19" rack, Switching frequency 150 kHz, Number of racks: 1 , Dimension (580 x 1750 x 850) mm, Weight approx. 350 kg.; Down Transformer Rated Capacity : 30 kVA, Primary Voltage : 380/400/415/440 VAC Secondary Voltage : 200/220 VAC Dimensions : 650 x 600 x 750h mm Weight : approx. 270 kg.;</p> <p>Extended cable set- Optional 10m drive and interlock cables Length approx. 10 m; Neutralizer; Accelerometer: Charge accelerometer Sensitivity ($\pm 10\%$): 3 pC/(m/s²), Measurement range: $\pm 9,800$ m/s² Frequency range : upto 10,000 Hz , Electrical Connector; 10-32 Micro, Side connection Weight: 24 gm , Temperature range: -40 +160 °C</p> <p>Low noise cable :Pick up side: 10-32 Micro to BNC Length; 6m & Controller side: BNC to BNC Length; 12m; Head expander :</p>	1	5,00,50,297

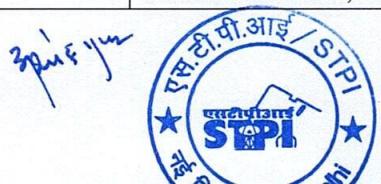


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S. No.	Equipment (s)	Specification	Quantity	Amount (In Rupees)
		<p>Table size; 800 x 800 mm, Height; 70 mm, insert size; M10 on 100 mm Grid Usable Frequency range ; 350 Hz Weight; 45 kg , Material: Aluminium; Horizontal Table : Table size; 800 x 800 mm Max Payload ; 400 kg, Insert size M10 on 100 mm Grid Usable Frequency range ; 1000 Hz Pitch- and Roll moment ; 2200 Nm, Moving mass ; 88 kg (including driver bar) Material ; Aluminum ; Controller (9 No's): Single axis Vibration controller, PCI Express interface board 1.5m with cable, I/O Module, K2/RANDOM , KE/SINE, K2 SHOCK, K2 DATA VIEWER, K2 calibration certificate</p> <p>Temperature/Humidity Chamber for Combined System- Inner dimensions: 1000W × 1000D × 1000H mm Temperature control range : -40°C ~ +150°C Temperature distribution : ±3°C ; Temperature flexible range : ±0.5°C ; Temperature pull-down rate : +20°C → -40°C within 60 min Temperature heat-up rate : -40°C → +20°C within 60 min Heat load : Chamber only ; Cooling : Air Cooling Movement : Shaker Combined Method : Directly Coupling for i230 ; Door : Front single swing door (left hinge, right door handle) Room light : LED light x 1 ; Observation window : 300×300 mm x 1 Cable hole : 50 mm x 1 ; Stainless steel shelf : Non Chamber floor at single use : x 1 Recorder : Paperless Recorder x 1 Power Cables : None ; Power supply : 3φ 415VAC 26 kVA Breaker capacity : 40A ; Drain : Prepare the drainage Ambient temperature : 5 °C ~ 35 °C</p>		
D.3.6	Battery Pack Tester	Rating: 100V, 400A – 3 Channel per Cabinet	1	1,77,00,000
D.3.7	Battery Manager (BM4) Software Workstation including Host PC	<p>DELL / HP Desktop current model , Windows 10 64bit OS install DVD , TFT Monitor, 24" , System hardware and software completely configured, incl. cables</p> <p>Battery Manager Software includes MS SQL 2017 Express, 10 GB *, Battery Manager Database Server, Graphical user interface, Device Controller FORMATION</p>	1	17,70,000
D.3.8	CANGUI Software for BMS Integration	CANGUI.exe is a tool to create CANS Tasks by means of a graphical user interface (GUI) and required templates that contain special parameters for Task creation.	1	17,11,000
D.3.9	Walk-in Chamber for temperature and humidity	High performance low temperature chamber, Internal height of the chamber: 2100mm, Ethernet port for remote chamber management, Cable port 100mm dia, with one flexible Silicone plug (1 no.)	2	77,62,040
D.3.10	Compact Thermal Shock chamber	<p>Model: TSE-12-A</p> <p>Inside dimensions (W x H x D) mm : 320 x 148 x 230</p> <p>Low temp. exposure range : -65°C to 0°C</p> <p>High temp. exposure range:+60 to +200°C</p> <p>Temperature Heat Up time: Ambient temp to. +200 °C with in 30 min ; Temperature Pull down :Ambient temp to. -80 °C with in 90 min; Cable port 50mm dia; Casters with level adjuster, N Instrumentation Controller etc.,Voltage modification to AC 415V, 3ph, 50Hz, Emergency stop switch</p>	1	46,63,360
D.3.11	Salt Spray Test Chamber	Model: SS600 , Chamber Temperature Range: Ambient + 5°C to 55°C ; Saturator Tower (Bubble Tower) Temperature Range: Ambient -5°C) to +74°C; Resolution of chamber and bubble	1	49,85,500



S. No.	Equipment (s)	Specification	Quantity	Amount (In Rupees)
		tower temperature controller: 0.1°C ; PT100 temperature sensors – 3 wire ; Homogeneity of chamber and bubble tower temperature: ±1.0°C; Bubble Tower Pressure Range: 29 kPa min – 196 kPa max. (4.2psi min – 28 psi max) ; Fog collection Range: 1.0 - 2.0 ml/hour, continuous 16 hours of test ; Modes- Salt spray , Condensation Humidity Natural Dry and Soak including Sample Rack With 15° Or 20° Inclination In Accordance With Astm B117 and ISO 9227 - SS600 , Data Acquisition Software By PC, Wood Export Crating etc.		
D.3.12	Drop Tester	<p>Model DT-202; Specimen weight -2 Kg; Drop height range (mm) :250 mm up to 2000 mm; Size (W X H X D) :600mm X 2382mm X 500 mm; Tester Weight- 80 Kg,Power supply :100-240V, Single-phase, 5A ; Supply air pressure required: 0.49 Mpa (1.2dm3 when tests 6 times/min)</p> <p><i>Application: The machine can drop "lightweight" and "downsized" test samples stably maintained in any desired attitude. Used to held test in any attitude, dropped in a free fall, and the shock resistance, height can be set in a simple manner with the scale , and sample can be fastened by the pneumatic pen cylinder. Used for small-sized products, including mobile devices, such as cellular phones, HDDs, PDAs, digital audio players etc. and also for diverse electronic devices, PCBs, electronic components, cosmetics, medical products etc.</i></p>	1	50,23,543
D.3.13	Tackiness checker	<p>Model-HTC-1; Measure tackiness: Load cell (50N, resolution 0.1N); Press force: 5N~12N (variable) ; Press time: 3 Sec/6 Sec (Selection) ; Test N Number: 1 / 3 / 5 (Selection) ; O-ring move speed: Approx 2.3 mm/sec</p> <p><i>Application: In the molding process of tires, belts etc., where components including rubber materials and reinforcement materials bonded in multi – layers and vulcanized, therefore, component tackiness before forming process needs to be checked.</i></p>	1	17,11,000
D.3.14	Melt Flow Indexer	<p>Model : G-02, Temperature range: 100 to 400°C , Temperature accuracy: ±0.2°C , Test load: 2.16 kg , Test standards: ISO 1133, ASTM D 1238, JIS K7210, K6760, K6870, K6719, 6758 Power supply: AC 200V-230V, 1 ph, 50Hz, 0.6kVA , Flow Rate device for Method B , Weight lifting device Automatic cutting device , Weight set for 5.0 kg load</p> <p><i>Application: The melt viscosity value of thermo-plastics deeply linked with the technological property in molding, spinning, etc. Therefore, measurement of melt viscosity plays important role in product development, quality control etc. To measure the melt. It measures the mass flow rate (MFR) (g/10 min.) and melt volume flow rate (MVR) (cm3/min.) of plastics/melt polymer passing the standard die (orifice) under constant temperature and constant pressure</i></p>	1	38,52,700
D.3.15	Heat Deformation Tester	Model : 3M-2 , Sample Holders : 3 , Max temp: 300° , Test tank capacity: oil tank (approx.28L) , Temp increase speed: 1200C/h, or 500C/h , Temperature distribution : ±0.5°C , Voltage down-transformer for power supply , AC100V 50HZ 1ph 45A ; DTUL Flatwise 0.45MPa , DTUL Flatwise 1.80MPa (PC included with	1	66,24,400



S. No.	Equipment (s)	Specification	Quantity	Amount (In Rupees)
		software included) , Weight for VICAT -10N , Weight for VICAT -50N , VICAT test needle <i>Application: To evaluate thermal properties of plastics according to the following standards i) Deflection Temperature Under Load (DTUL) testing method JIS K 7191-1,2(ISO-1,2) ii) Vicat Softening Temperature (VST) testing method JIS K 720 (ISO 306), iii) Ball Pressure Temperature testing method (IEC,335-1)</i>		
Sub-Total (D)				16,51,45,000

E. Electronics Assembly, Test & Measurement

E.1	Li-Ion Battery Test and Measurement	Battery Test System of 10 kW with 2 Channel (60V/125A/5kW) charge/discharge module, controller module, industrial PC with 19" Monitor, Win OS & Output cables set, 4 Chs CAN BUS port for BMS , temperature datalogger, Battery Simulator Function	1	69,97,500
		Battery Test System of 20 kW with 4 Channel (60V/125A/5kW) charge/discharge module, controller module, industrial PC with 19" Monitor, Win OS & Output cables set, 4 Chs CAN BUS port for BMS , temperature datalogger, Battery Simulator Function	1	1,01,09,500
Sub-Total (E)				1,71,07,000

F. Advanced Rapid Prototyping

F.1	Vacuum Forming Machine	Formech Vacuum Forming with a 7" Colour HMI/PLC interface with 40 memory function and FCV, cooling system, heating pyrometer. Equipment will be used to heat and form sheets of plastic.	1	97,69,000
F.2	5 Axis Desktop CNC Mill Pocket NC V2-50	X: 15.80in (400mm),Y: 12.00in (305mm),Z: 5.315in (135mm) along with a feed rate of XY: 0.3in to 141.7 in/min (7 to 3600mm/min), Z: 0.3 to 118.1 in/min (7 to 3000 mm/min)	1	16,88,000
F.3	Zund G3L-2500	A Digital Cutter of G3 L-2500 and a 3 tool modules lots, laser pointer, and adjustable vacuum area. Equipment to be used for processing 50+ materials	1	2,44,14,000
F.4	Vinyl Cutter	Has a driving mechanism of Friction feed / Digital control servo motor with a cutting speed of 10 to 850 mm/sec. (in increments of 10 mm/sec.) / 20 to 350 gf	1	8,31,000
F.5	CNC Hot Wire Cutter	The maximum cutting ability in a low density is 200 cm/min with a +/- 1mm precision. Used to process UAV wing profiles.	1	20,11,000
F.6	High Speed CNC	Compact CNC high-speed milling machine with minimal floor space and a spindle of 2.0 kW, speed 4,000-40,000 rpm, asynchronous, torque [Nm] 0.6, tool holder with direct clamping for 8mm shank diameter	1	82,04,000
Sub-Total (F)				4,69,17,000

G. 3D Printing

G.1	Industrial FDM	Build volume: 254 x 254 x 254 mm; min layer thickness 127 micron, accuracy 20-85 micron, material capabilities: PLA, ABS, ASA, TPU with soluble support material.	1	1,80,39,000
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S. No.	Equipment (s)	Specification	Quantity	Amount (In Rupees)
G.2	Industrial Polyjet	Build size: X-Y Area 1174 sq cm, Z height 190mm, 18.75-micron min layer thickness, water soluble support material,	1	90,03,000
G.3	SLS Nylon Printer	Build volume of 200 x 250 x 330 mm (7.9 x 9.8 x 13 in) and scan speed of up to 5 m/s (16.4 ft/s)	1	3,59,37,000
G.4	3D Scanning	Resolution of 0.1mm, Point accuracy to 0.05mm and accuracy over distance, up to 0.03% over 100 cm	1	16,89,000
G.5	Carbon Fiber Reinforced 3D Printer	Build volume 330 x 270 x 200 mm	1	77,64,000
G.6	Metal Additive Manufacturing	Build volume: 280x280x365 mm; 4 x400W/700W IPG fiber laser, build rate upto 88 cub cm/hr, min layer thickness 20 micron, min feature size 150 micron, max scan speed 10 m/s, 400V 3phase, 63A, 5.5kW	1	14,42,55,000
G.7	3D Print Finishing Machines	Finishing solutions for 3D printed parts.	1	89,68,000
		Sub-Total (G)		22,56,55,000

H. Design and Simulation Workstation

H.1	Precision 3660 Tower CTO BASE	Precision 3660 Tower with 300W (80 Plus Platinum) PSU	1	38,18,000
H.2	Precision 3460 SFF CTO BASE	Precision 3460 Small Form Factor Workstation with Precision 3460 Small Form Factor Workstation	1	12,89,000
H.3	OptiPlex 7000 Micro	OptiPlex 7000 Micro Form Factor with 12th Gen Intel® Core™ i5-12500	1	17,46,000
H.4	Precision 3660 Tower CTO BASE	Precision 3660 Tower with 300W (80 Plus Platinum) PSU	1	5,99,000
H.5	Dell 27 Monitor - P2722H	-	1	1,81,000
		Sub-Total (H)		76,33,000

I) Design Software

I.1	Catia	A multi-platform software suite for computer-aided design, computer-aided manufacturing, computer-aided engineering, 3D modeling and Product lifecycle management	2	3,09,94,000
I.2	Ansys	A general-purpose, finite-element modeling package for numerically solving a wide variety of mechanical problems. These problems include static/dynamic, structural analysis, heat transfer, and fluid problems, as well as acoustic and electromagnetic problems	1	76,70,000
I.3	Altium	Altium develops software that is used for designing of electronic products including printed circuit board. Its products are designed for use in a Microsoft Windows environment and used in industries such as automotive, aerospace, defense, and telecommunications	1	36,26,000
I.4	Uni Graphic NX	A software that supports product developing and manufacturing, from creating 3D models of parts, assemblies and drawings to the creation of the software for the parts production with NC-machines and to shop designing	2	33,04,000

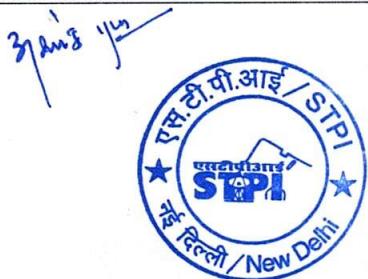
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S. No.	Equipment (s)	Specification	Quantity	Amount (In Rupees)
I.5	Labview	Laboratory Virtual Instrument Engineering Workbench is a system-design platform and development environment for a visual programming language from National Instruments. The graphical language is named "G"; not to be confused with G-code	2	31,21,000
I.6	Solid works	A solid modeling computer-aided design and computer-aided engineering application	5	42,66,000
I.7	Orcad	A software tool suite used for electronic design automation	3	13,98,000
I.8	Auto cad	A commercial computer-aided design and drafting software application for drawing and editing digital 2D and 3D designs	5	19,94,000
I.9	Adobe creative suit	A software tool for graphic design, video editing, and web development applications developed by Adobe Systems	5	14,63,000
I.10	Matlab	MATLAB allows matrix manipulations, plotting of functions and data, implementation of algorithms, creation of user interfaces, and interfacing with programs written in other languages	3	6,02,000
I.11	Sketch up	A 3D modeling Computer-Aided Design program for a broad range of drawing and design applications	5	6,94,000
I.12	Fusion 360	A computer-aided manufacturing, computer-aided engineering and printed circuit board design software application	10	11,79,000
I.13	Keyshot	A software used by industrial designers, mechanical engineers, marketing professionals, photographers, and CG professionals worldwide to quickly and easily create realistic images and animations of their 3D models	5	5,72,000
I.14	Rhino	A commercial 3D computer graphics and computer-aided design application software	3	2,67,000
I.15	Code vision AVR	The only Integrated Development Environment on the market that features an Automatic Program Generator (codewizardavr) for the AVR8, AVR8X, AVR DA, AVR DB and XMEGA chips	10	3,19,000
I.16	Auto desk inventor	A computer-aided design application for 3D mechanical design, simulation, visualization, and documentation	3	15,000
Sub-Total (I)				6,14,84,000

J. Power tools (Common across all workshop)

J.1	Cordless 18 Ga 40mm Brad Nailer, Cordless Random Orbit Polisher, Cordless Impact Driver DTD 172, Toolstar 120W Glue Gun K-1200, Toolstar 60W Glue, Gun TS-600 Proxxon, Precision Lathe FD 150/E 24150, M5801B with blade and accessories, 135mm Jig Saw (with Orbital Cutting) 4350CT with blade and accessories, M4301B - 450W, with blade and accessories, 4131, with blade and accessories etc.	LS	1,25,00,000
	Sub-Total (J)		1,25,00,000
	Total (A+B+C+D+E+F+G+H+I+J)		82,38,50,000



Amount: In Rupees

S.No.	Furniture Item(s)	Unit	Total Cost
A) Cost of furniture for Co-working space			
1	I/C Office consisting of I/C table - 1 Nos., I/C chair -1 Nos., visitors' chair - 2 Nos., credenza - 1 Nos., 3 Seater sofa - 1 Nos., 2 Seater sofa - 1 Nos., centre table- 1 Nos. Corner table – 1 Nos.	2	7,54,000
2	Manager Cabin - consisting of I/C table - 1 Nos., I/C chair - 1 Nos., visitors chair - 2 Nos., credenza - 1Nos.	5	13,45,000
3	Office for 12 persons -consisting of 4 seater workstations - 3 Nos., chairs - 12 Nos, vertical filing cabinets - 12 Nos.	3	11,21,000
4	Office for 10 persons-consisting of 4 seater workstations - 2 Nos., 2-seater workstation - 1 Nos., chairs - 10 Nos., vertical filing cabinets – 10 Nos.	2	6,23,000
5	Office for 8 persons-consisting of 4 seater workstation - 1 Nos., 2-seater workstations - 2 Nos., chairs - 8 Nos., vertical filing cabinets - 8 Nos.	2	4,98,000
6	Office for 6 persons - consisting of 4-seater; workstation - 1 Nos., 2-seater workstations - 1 Nos., chairs - 6 Nos., vertical filing cabinets - 6 Nos.	2	3,74,000
7	Office for 4 persons - consisting of 4-seater workstation - 1 Nos., chairs - 4 Nos., vertical cabinets- 4 Nos.	2	2,72,000
8	Conference/ Discussion Rooms/ Meeting Rooms (Type-2) - consisting of 14-seater meeting table - 1Nos., chairs - 14 Nos.	2	5,31,000
9	Cafeteria / Tea Room (Type-1) - consisting of cafeteria tables - 2 Nos., cafeteria chairs - 12 Nos., 3-Seater Sofa - 2 Nos., 2-seater sofa – 2 Nos., centre table - 1 Nos., corner tables - 2 Nos.	1	2,22,000
10	Technical Library (Type - 2) - consisting of reading tables - 3 Nos., reading chairs - 18 Nos., glass bookcase - 5 Nos., periodicals display racks - 3 Nos.	1	2,82,000
11	Crew rest room (Type-3) - consisting of 6-door pigeon lockers - 3 Nos., 3-seater waiting chairs – 1 Nos.	2	1,34,000
12	Workshop 1 – table - 1 Nos. + chair - 1 Nos.	10	4,80,000
13	Workshop 2 - table - 1 Nos. + chair - 1 Nos., cabinet - 1 Nos.	10	6,23,000
14	Providing, fixing & installation of sign board fabricated all complete with necessary angles, clamps & other arrangement as may be necessary for fixing as per the drawing and OIC	LS	22,49,000
Sub-Total (A)			95,08,000
B) Furniture for Garage space			
1	Mechanical Workbench- Size (LWX) - 1800 mm X 1200 mm, Height-914 mm Counter, Top-Birch Plywood of 35mm thickness with open edge finish	15	9,52,000
2	2x4 Workbench (35mm Birch ply top with waterproof finish height 914mm)	25	7,77,000
3	2x2 Workbench	10	2,16,000



S.No.	Furniture Item(s)	Unit	Total Cost
A) Cost of furniture for Co-working space			
	(35mm Birch ply top with waterproof finish height 914mm)		
4	Industrial Chair with Backrest <i>(Adjustable height, with wheels, swivel function, Stable design, and comfort, without backrest)</i>	112	27,25,000
5	Industrial Stool <i>(Adjustable height, with wheels, swivel function, Stable design, and comfort, without backrest)</i>	38	9,05,000
6	Industrial Storage Racks <i>(MS Slotted angles, 3-5 shelves, Load capacity: 500-750Kgs)</i>	20	4,87,000
7	Industrial Cupboards <i>(Dimensions :1025W x 630D x 1850H, Shelf capacity-120Kg, Drawer load capacity-100Kg, Clear View Door, Pad locking)</i>	10	19,40,000
8	Pull down power cords <i>(1.5-2.5 sq.mm, wire 3 core, 10mtr cable length, 230v AC Input 10Amps, Wall mount, at least 180 Degree rotation, high quality impact resistant case)</i>	40	21,38,000
9	Electronics Workbench <i>(600x1200 mm work area, with shelf for equipment placement)</i>	5	6,16,000
10	Tool Trolley <i>(Drawer cabinet flexa key comfort c0-eh=36x27 with 5 drawer's color: blue ral5012)</i>	30	31,26,000
Sub-Total (B)			1,38,82,000
Grand Total (A+B)			2,33,90,000

