

ITI PROFILE

INDUSTRIAL TRAINING INSTITUTE RANGIA



Directorate of Employment and Craftsmen Training
Rehabari, Guwahati, Assam

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A. Baseline Characteristics of Government ITI Rangia

Government Industrial Training Institute, Rangia, located at Tulshibari on Halikuchi Road in Kamrup District, Assam, was established in 2020 on a 10-bigha campus to expand access to quality vocational education in the region. The institute is a Government, co-educational ITI situated in a rural area, with a total approved intake capacity of 256 trainees per academic session. The institute is proposed as a Spoke ITI under the hub and spoke model to facilitate cluster-based skill development, resource sharing, and industry linkage.

At present, the institute offers seven regular trades, comprising five engineering trades and two non-engineering trades. All trades operate in Shift 1, while selected engineering trades are also conducted in Shift 2 to optimize infrastructure utilization and enhance training capacity. In addition, two advanced trades have already been introduced under the Centre of Excellence framework in emerging and Industry 4.0 domains, and four more advanced trades are scheduled to be made fully functional from 2026. This brings the total number of trades in the institute to thirteen, covering both conventional and advanced technology areas.

The tools and equipment for the Centre of Excellence trades were newly procured and commissioned in 2025 and are presently adequate. However, the tools and machinery for the seven existing trades were procured in earlier phases and now require comprehensive modernization in line with the latest NCVT norms and evolving industry standards. The proposed institutional development plan accordingly prioritizes systematic upgradation of legacy trades while ensuring optimal utilization of the newly developed CoE infrastructure. The institute currently does not have an Institute Management Committee in place.

Institute Basic Details

SN	Particulars	Detail
1	Institute Name	Government Industrial Training Institute Rangia (Spoke ITI)
2	Type of Institute	Government
3	Institute Location: (Rural/Urban)	Rural
4	Is it Women ITI Only? (Yes/ Co-ed)	CoEd
5	Pin Code	781376
6	Email Id	itirangia2020@gmail.com
7	Mobile No	9854120528
8	District	Kamrup Rural
9	Complete address	Vill-Tulshibari. Po- Tulshibari- PIN-781376, PO- Tulshibari
10	Latitude	26.509164
11	Longitude	91.585332

SN	Particulars	Detail
12	Website	NA
13	Year in operation	2020
14	Current grading of ITI	NA

1. Current ITI management and IMC composition (if IMC is present)

i. Details of Head of the ITI

SN	Particulars	Detail
1	Name	Krishna Bania
2	Designation (Sr. Principal/ Principal/ Superintendent)	Superintendent (i/c)
3	Email	itirangia2020@gmail.com
4	Mobile	9854120528

ii. Availability of Institute Management Committee (IMC)

SN	Particulars	Available
a.	Institute Management Committee (IMC) (Yes/ No)	No
b.	If Yes, name of Industry Partner	-
c.	Date of Notification of the IMC	-

a. IMC composition

SN	Name of Member	Designation in IMC	Category / Representation	Organization
1.		Chairman	Industry	
2.		Member Secretary	Principal	
3.		Member	Industry	
4.		Member	Industry	
5.		Member	Industry	
6.		Member	Industry	
7.		Member	District Employment Officer	
8.		Member	DECT	
9.		Member	Academic Expert	
10.		Member	Senior faculty member	
11.		Member	Trainee	

2. List of courses offered- Trade and Unit details

SN	Trade Name	Trade Type	No. of Unit		
			Shift 1	Shift 2	Total
1	Wireman	Engineering	1	1	2
2	Cosmetology	Non-Engineering	1	-	1
3	Computer Operator Programming Assistant	Non-Engineering	1	-	1
4	Painter (General)	Engineering	1	-	1
5	Fitter	Engineering	1	1	2
6	Information & Communication Technology System Maintenance	Engineering	1	-	1
7	Welder	Engineering	1	1	1
8	Basic Designer and Virtual Verifier (Mechanical)	Engineering	1	-	1
9	Industrial Robotics & Digital Manufacturing Technician	Engineering	1	-	1
Total			9	3	11

Trades ready for operationalization from the academic year 2026 under the Centre of Excellence (CoE), established in collaboration with Tata Technologies Ltd.:

SN	Trade Name	Trade Type	No. of Unit		
			Shift 1	Shift 2	Total
1	CNC Machining Technician	Engineering	1	1	2
2	Mechanic Electric Vehicle	Engineering	1	1	2
3	Manufacturing Process Control & Automation	Engineering	1	1	2
4	Artisan using Advanced Tools	Non- Engineering	1	1	2
Total			4	4	8

3. Number of enrolled Trainees in the last three years

(for courses, by gender and category –General, SC, ST, OBC & PwD)

SN	Trade Name	Course Type	Year (2022–23/ 2023–24/ 2024–25)	Total Enrolled			By Category				
				Male	Female	Total	General	SC	ST	OBC	PwD (if any)
1.	Fitter	SCVT	2022-24	26	14	40	16	3	9	11	1
			2024-26	15	5	20	13	1	1	5	0
2.	Fitter	SIMC	2025-27	16	0	16	13	0	1	2	0
3.	Welder	SCVT	2022-23	40	0	40	22	4	6	8	0
			2023-24	40	0	40	18	2	15	5	0
			2024-25	40	0	40	40	0	0	0	0
			2025-26	37	1	38	38	0	0	0	0
4.	Wiremen	SCVT	2022-24	40	0	40	23	1	7	9	0
			2024-26	20	0	20	20	0	0	0	0
5.	Information communication Technology system maintenance	SCVT	2022-24	18	6	24	12	2	4	6	0
6.	Information communication Technology system maintenance	SIMC	2025-27	1	2	3	3	0	0	0	0
7.	Painter (General)	SCVT	2022-24	20	0	20	10	1	1	8	0
			2024-26	11	0	11	11	0	0	0	0
8.	Computer operator and programming assistant	SCVT	2022-23	12	12	24	15	1	2	6	0
			2023-24	16	8	24	11	3	2	8	0
			2024-25	15	9	24	17	1	2	4	0
			2025-26	16	8	24	16	3	2	3	0
9.	Cosmetology	SCVT	2022-23	0	20	20	9	1	5	5	0
			2023-24	0	14	14	6	1	3	4	0
			2024-25	0	8	8	5	0	3	0	0
10.	Basic Designer and Virtual Verifier (Mechanical)	SIMC	2025-27	3	0	3	3	0	0	0	0

11.	Industrial Robotics & Digital Manufacturing Technician	SIMC	2025-26	5	0	5	3	0	1	1	0
Total				391	107	498	324	24	64	85	1

4. Number of graduates last year by courses

(for courses, by gender and category General/SC/ST/OBC) and specify proportion who are employed and other information about labor market outcomes.

SN	Trade Name	Course Type (NCVT /NIMC/ SCVT / SIMC)	Total Graduates (Last Year) by Gender			By Category					Employment Outcomes (%)			
			Male	Female	Total	Gen	SC	ST	OBC	PwD	Employed	Self-Employed	Higher Education	Unemployed
1.	Fitter	SCVT	21	4	25	10	3	6	6	0	20%	30%	30%	20%
2.	Welder	SCVT	19	0	19	9	2	6	2	0	10%	50%	5%	35%
3.	Wiremen	SCVT	13	0	13	3	3	4	3	0	20%	50%	10%	20%
4.	Information communication Technology system maintenance	SCVT	4	2	6	2	1	1	2	0	20%	50%	10%	20%
5.	Painter (General)	SCVT	4	0	4	2	0	1	1	0	20%	50%	10%	20%
6.	Computer operator and programming assistant	SCVT	11	7	18	9	1	3	5	0	5%	10%	50%	35%
7.	Cosmetology	SCVT	0	4	4	2	1	1	0	0	10%	80%	10%	0%

5. Number of instructors

(Total disaggregated gender wise data, types of contracts, sanctioned post, vacancies by course, by gender).

SN	Trade name	Trade affiliation	No. of units available	No. of position required	No. of sanctioned Contractual post	Instructor in position						Vacancy (Govt. Contractual)
						Officiating ¹	Govt. Contractual	Engaged under IMC	Total			
									Male	Female	Total	
1	Fitter	SCVT	2	2	2	0	1	0	1	0	1	1
2	Welder	SCVT	2	2	2	0	2	0	2	0	2	0
3	Wiremen	SCVT	2	2	2	0	1	0	1	0	1	1
4	ICTSM	SCVT	1	1	1	0	0	0	0	0	0	1
5	Painter (General)	SCVT	1	1	1	0	1	0	1	0	1	0
6	COPA	SCVT	1	1	1	0	1	0	1	0	1	0
7	Cosmetology	SCVT	1	1	1	0	0	0	0	0	0	1
8	BDVVM	SCVT-IMC	1	1	0	1	0		1	0	1	0
9	IRDMT	SCVT-IMC	1	1	0	1	0		1	0	1	0
Total			12	12	10	2	6	0	8	0	8	4

ICTSM- Information communication Technology system maintenance

BDVVM - Basic Designer and Virtual Verifier (Mechanical)

COPA- Computer operator and programming assistant

IRDMT -Industrial Robotics & Digital Manufacturing Technician

¹ Engaged two subject Matter Expert by Tata Technologies Ltd as per MoA signed with Govt. of Assam

6. Staff Detail-Administrative staff

SN	Trade name	No. of position required	No. of sanctioned post	Available staff			Vacancy (Regular)
				Govt. Contractual	Engaged under IMC	Total	
3	Superintendent	1	1	0	-	0	1
4	Sr. Supervisor	1	1	1	-	1	0
8	Senior Assistant	3	3	3	-	3	0
10	Junior Assistant	2	2	2	-	2	0
11	Store- Keeper	1	1	1	-	1	0
12	Grade-IV	6	6	6	-	6	0
13	Sweeper	2	2	1	-	1	1
14	Workshop Attendant	3	3	3	-	3	0
Total		19	19	17	0	17	2

7. Size and condition of classroom and workshop facilities including other amenities

SN	Particulars	Available
1.	Total Plot Area (in Acres/ Bigha)	3.3 Acres (10 Bigha)
2.	No. of RCC building available (Mark NA, if not available)	Nil
3.	No. of Non-RCC Building available (Mark NA, if not available)	6 Nos.
4.	No. of Rooms available in the building	Classroom: 3 Nos. Workshop : 9 Nos.
5.	Staff Quarter Available (Yes/No)	Yes Under construction: 3 Nos.
6.	Hostel Available – Boys & Girls (Yes/No)	No
7.	Size of the Classroom	a. Classroom 1: 55 sqm b. Classroom 2: 27 Sqm c. Classroom 3: 27.Sqm Total classroom area: 109 sq m
8.	Size of the Workshop(Sqm)	i. Workshop 1: 102 Sqm ii. Workshop 2: 80 Sqm iii. Workshop 3: 80 Sqm iv. Workshop 4: 104 Sqm v. Workshop 5: 104 Sqm vi. Workshop 6: 50 Sqm vii. Workshop 7: 42 Sqm viii. Workshop 8: 39 Sqm ix. Workshop 9: 836 Sqm (CoE) Total workshop area: 1437 sqm
9.	Total building area (In square meter)	1900 Sqm
10.	Boundary Wall available (Yes/No)	Yes
11.	Total Seat capacity (SCVT, NCVT and IMC trades)	256
12.	IT laboratory (Yes/ No)	No (sanctioned for construction)
13.	Drawing Hall(Yes/ No)	Not available (required 50 Sqm room for Engineering drawing as per norms)
14.	Principal Room(Yes/ No)	Yes
15.	Staff Room(Yes/ No)	Yes
16.	Administration Hall (Yes/ No)	Yes
17.	Placement/Counselling Room(Yes/ No)	Yes

SN	Particulars	Available
18.	Reception cum Waiting Lobby(Yes/ No)	Not available (required 40 Sqm room as per norms)
19.	Multipurpose Hall / Courtyard(Yes/ No)	Not available (required 500 Sqm room as per norms)
20.	Library Reading Room(Yes/ No)	Not available (required 80 Sqm room as per norms)
21.	Canteen (including kitchen & pantry) (Yes/ No)	Not available (required 50 Sqm room as per norms)
22.	First Aid Room(Yes/ No)	Yes
23.	Storage room for raw material and for gases/oil drums etc.(Yes/ No)	Yes
24.	Boys Hostel (150 capacity)	Not available (required 1250 sqm)
25.	Girls Hostel (50 capacity)	Not available (required 450 sqm)
26.	Separate Toilets (Male/Female/Divyang)	Not available (required 120 Sqm)
27.	Women Facilitation & Counselling Desk	Not available (required 15 Sqm room as per norms)
28.	Alumni & Placement Tracking Cell (TCPEC)	Not available (required 20 Sqm room as per norms)
29.	Security & Access Control Point	Not available (required 15 Sqm room as per norms)
30.	Availability of Ramps and Infrastructure necessary for disabled persons (yes/no)	Not available (required as per norms)
31.	Plot Entrance Gate (Yes/ No)	Yes
32.	Building Entrance Gate (Yes/ No)	Yes
33.	Vacant available land for new construction (Sqm)	0.5 acre (1.5 Bigha)
34.	Parking Area (Yes/ No)	No

8. Availability of 3-phase power, backup (DG sets), and water supply

SN	Utility Item	Availability (Yes/No)	Capacity / Specification	Remarks
1	3-Phase Power Supply	Yes	Load: 51 kW	
2	Backup Power (DG Set)	Yes	DG: 220 kVA	
3	Water Supply Facility	Yes	Source: Boring	

9. Detailed Equipment Inventory:

A comprehensive list of existing machinery and equipment, including their approximate age and its current functional status is attached as **Appendix-I**

10. Internal Revenue Generated (IRG) in the last 3 years

(e.g., through production centers, spare part manufacturing, or external training)

(in Lakh)

SN	Non-Government Revenue Source (Industry/CSR/Production/Training)	FY 2022– 23	FY 2023– 24	FY 2024– 25	Remarks
1	Spare part manufacturing	-	-	-	-
2	Production Centre Revenue	-	-	-	-
3	External Training (i.e. PMKVY, Jal Mitra etc.)	-	-	-	-
4	Other (Specify)	-	-	-	-

11. Composition of Internal Complaint Committee (ICC)

(GRMs registered/resolved, trainings undertaken, submission of annual reports)

SN	Member Name	Designation in ICC	Gender	Category / Representation
1	Sri Sanjeeb Kalita, Supervisor of ITI	Chairperson	M	Sr. Supervisor
2	Smt Maityee Sabapandit	Member	F	Faculty
3	Sri Pradip Barman	Member	M	Administrative Staff

a) ICC Functioning and Effectiveness (Workplace Safety Monitoring)

Year	Grievances Registered	Resolved	Pending	Annual Report Submitted (Yes/No)	Remarks
2022–23	Nil	-	-	-	-
2023–24	Nil	-	-	-	-
2024–25	Nil	-	-	-	-

B. Indicative Upgradation Requirements Identified by the State:

1. Civil Infrastructure Upgradation

Under the PM-SETU scheme, comprehensive civil upgradation is proposed for Government ITI Rangia with the objective of developing a modern, compliant, and learner-centric training ecosystem. The key civil interventions include:

- i. Refurbishment and strengthening of the existing built-up infrastructure of approximately 1900 sqm to align with the latest NCVT/NCVET norms.
- ii. Repair, renovation, and retrofitting of existing classrooms, workshops, and institute buildings to improve safety, functionality, and training quality.
- iii. New construction of additional classrooms, workshops, and essential institute amenities to address infrastructure gaps, support expanded trade capacity, and enable introduction of emerging technology-oriented courses.
- iv. Provision of required electrical installations and services, including internal electrification, power distribution, lighting, safety systems, and readiness for modern equipment and Industry 4.0 labs.
- v. Development of supporting infrastructure, such as water supply, sanitation facilities, storage areas, and other allied civil works required for smooth institute operations.
- vi. Installation of modern furniture, fixtures, and workshop furnishings, including classroom seating, instructor stations, tool storage systems, and common facility improvements to create an enhanced learning environment.
- vii. Construction of three residential quarters, namely one for the Principal, one for staff, and one for Grade IV staff, has reached approximately 60 percent physical progress. The remaining works are proposed to be completed at the earliest to make these facilities fully functional and to further strengthen the institutional support infrastructure of the institute.

1.1 New Construction Projects (indicative)

SN	Project	Details of required Rooms	Estimated Plinth Area (sqm)	Rate (Rs. /sqm)	indicative Amount (in Cr.)
1	New construction	Classroom (5 classroom X 25 sqm)	125	Rs. 30,920	0.39
		Workshop (5 Workshops X Approx.100 sqm)	500	Rs. 30,920	1.55
2	New Block	Drawing Hall, Reception cum Waiting Lobby, Multipurpose Hall / Courtyard, Library Reading Room, Separate Toilets (Male/Female/Divyang), Women Facilitation & Counselling Desk, Alumni & Placement Tracking Cell (TCPEC), Security & Access Control Point and Canteen	890	Rs. 30,920 (CPWD PAR 2025 -College)	2.75

SN	Project	Details of required Rooms	Estimated Plinth Area (sqm)	Rate (Rs. /sqm)	indicative Amount (in Cr.)
		(including kitchen & pantry)			
3	Electrical installation		1515	12.5% of total budget estimate	0.59
4	Hostel	Boys (150 capacity)	1250	Rs. 24,410 (CPWD PAR 2025 - Hostel/Quarter)	3.05
		Girls (50 capacity)	450	Rs. 24,410	1.10
		Electrical installation in both the hostel		12.5% of total budget estimate	0.52
5	Parking area	For 15 Car and 300 bikes	600	Rs. 2,945 (CPWD PAR 2025 (item-6.2.3))	0.18
Total indicative cost (in Cr.)					10.13

1.2 Repair, Renovation & Upgradation Projects (Existing ITI Infrastructure)

SN	Project	Details of required Rooms	Estimated Plinth Area (sqm)	Rate (Rs. /sqm)	indicative Amount (in Cr.)
1	Existing Academic & Administrative Block	Classroom, Workshop, admin area and other amenities	1074	30% of equivalent new construction cost (Rs. 30,920) (industry standard)	0.99
2	Electrical installation	In all newly constructed area	1074	12.5% of total budget estimate	0.12
3	Quarter	Principal	180	40% of equivalent new construction cost (Rs. 24,410) (industry standard)	0.18
		Staff	90		0.09
		Grade IV Staff	45		0.04
Total Amount (in Cr.)					1.42

1.3 Scope Covered under this Cost Framework

The indicative cost framework includes the following components:

- Civil and structural repairs, refurbishment, and strengthening works
- Upgradation and modernization of workshops, laboratories, and training spaces
- Electrical systems, plumbing and sanitation works, and installation of fire detection and firefighting arrangements
- Accessibility provisions for Divyangjan and other statutory safety and compliance-related

works as per applicable norms

1.4 ITI Modernization & Supporting Works (Lump Sum Benchmarks – Over and Above Renovation)

SN	Project	Indicative Lump Sum Range (in crore)
1	Furniture for classrooms, labs & offices (existing & New)	5.00
2	Fixed workshop fittings & partitions	1.50
3	CCTV surveillance & access control	0.30
4	Campus Wi-Fi & IT networking	0.30
5	Signage, branding & wayfinding	0.20
6	Landscaping & green campus development	0.60
Total indicative cost (in Cr.)		7.9

2. Existing Trade to be upgraded and new trade to be introduced:

Under the PM-SETU scheme, the Hub-and-Spoke ITI cluster proposes upgradation of training infrastructure for the existing trades currently being conducted in the institute. The upgradation will include modernization of tools, equipment, workshops, and training delivery systems to align with the latest NCVT/NCVET norms and evolving industry requirements.

In addition, select new and emerging trades are proposed to be introduced, particularly through the Centre of Excellence (CoE), to support Industry 4.0, green skills, and future-ready workforce development.

The proposed trades for upgradation and introduction are presented in the table below, covering both Hub and Spoke ITIs.

These interventions are aligned with PM-SETU Curriculum and Training Quality benchmarks, including:

- Upgradation of CTS courses as per industry requirements
- Introduction of new CTS courses in emerging sectors
- Launch of short-term industry-oriented courses at cluster level
- Industry validation of learning outcomes through a Positive Feedback Index

a. Upgradation of CTS courses as per industry requirements

i. Introduce new unit in existing trade:

A few trades in the institute are presently being conducted with only a single training unit. However, as per NCVT affiliation norms, a minimum of two units per trade is essential to ensure adequate training capacity, optimal utilization of infrastructure, and sustained compliance with national standards. Therefore, it is proposed to introduce an additional unit in such existing trades, which will not only fulfil the prescribed NCVT requirements but also enhance enrolment potential, improve learning outcomes, and strengthen the overall quality of skill training delivery.

SN	Trade Name	Trade Type	Total No. of available unit	No. of Unit proposed unit	Indicative cost for introducing new unit (in Cr.)
1	Cosmetology	Non-Engineering	1	1	0.25
2	Computer Operator Programming Assistant	Non-Engineering	1	1	0.30
3	Information & Communication Technology System Maintenance	Engineering	1	1	0.40
Total			3	3	0.95

ii. Details of Existing trades need to be upgraded

The upgradation of existing trades is essential to align training delivery with the latest NCVT/NCVET norms and evolving industry standards. Many trades require modernization of tools, equipment, and workshop infrastructure to match current technologies and workplace practices. Strengthening these trades through upgradation will enhance trainee competencies, improve employability outcomes, and ensure the institute remains responsive to emerging sectoral skill demands.

SN	Trade Name	Trade Type	No. of Unit			Upgrade required (Yes/No)	Estimated cost for upgradation (in Cr.)
			Shift 1	Shift 2	Total		
1	Wireman	Engineering	1	1	2	Yes	0.35
2	Cosmetology	Non-Engineering	1	0	1	Yes	0.25
3	Computer Operator Programming Assistant	Non-Engineering	1	0	1	Yes	0.25
4	Painter (General)	Engineering	1	0	1	Yes	0.20
5	Fitter	Engineering	1	1	2	Yes	0.80
6	Information & Communication Technology System Maintenance	Engineering	1	0	1	Yes	0.35
7	Welder	Engineering	1	1	2	Yes	0.65
8	CNC Machining Technician*	Engineering	1	1	2	Requirement -only unit wise trainee hand tools	0.20
9	Mechanic Electric Vehicle*	Engineering	1	1	2		0.20
10	Manufacturing Process Control & Automation**	Engineering	1	1	2		0.20
11	Artisan using Advanced Tools**	Non-Engineering	1	1	2		0.20
Total			11	7	18		3.65

* Operationalize from 2025 ** will be operationalized from 2026

iii. Introduction of new CTS courses in emerging sectors

The proposed list of new trades is indicative and has been identified based on current and emerging industry requirements, local market demand, and future employment opportunities. These demand-driven trades are aligned with evolving technologies, sectoral growth trends, and Industry 4.0 readiness, and are intended to enhance the institute's relevance and trainee employability under the PM-SETU framework. The proposed interventions also respond to the increasing requirement of trained manpower across key growth sectors in the upcoming labour market, ensuring availability of skilled technicians for expanding industrial and service ecosystems.

In line with the scheme's focus on Curriculum and Training Quality (including adoption of green practices), the project envisages upgradation of courses as per industry requirements, with a target of 10 courses per Hub ITI and 08 courses per Spoke ITI. Further, the introduction of new CTS courses is proposed at 4 per Hub ITI and 2 per Spoke ITI, along with the launch of 10 new short-term courses per Hub-and-Spoke ITI cluster.

The Industry Partner may select any trade(s) from the indicative list and may also propose additional trades based on their technical expertise, operational strengths, and sectoral focus. The indicative trades are suggestive in nature, and the Industry Partner is not bound to adopt only these trades. They may introduce other placement-linked and demand-driven trades in lieu of or in addition to the listed options, in accordance with present and future labour market needs, emerging technologies, and the workforce requirements of their own industry, partner industries, as well as other relevant industries in the ecosystem.

List of Proposed New Trades along with Cost Estimates:

a) Long Term Trade:

The proposed long-term trades have been identified based on present and emerging industry demand, local employment potential, and sectoral growth opportunities. These trades are aligned with evolving technologies and are intended to strengthen the institute's relevance, trainee employability, and Industry 4.0 readiness under the PM-SETU framework.

Indicative List of Long-Term Trades

A. Advanced Technology Trades (High Capital and Infrastructure Intensive)

SN	Name of Indicative New Trade	Indicative Cost (in Cr.)
1	Technician Mechatronics	2.46
2	Drone Pilot (Junior)	1.75
3	Semiconductor Technician	2.50
4	Manufacturing Process Control & Automation	2.00

B. Technology-Enabled Trades (Moderate Capital and Equipment Requirement)

SN	Name of Indicative New Trade	Indicative Cost (in Cr.)
5	Lift and Escalator Mechanic	1.50
6	Drone Technician	1.31
7	Technician Medical Electronics	1.30
8	Mechanic Auto Electrical & Electronics	1.00
9	Radiology Technician (Simulation-based Model)	1.00

C. Digital and Simulation-Based Trades (Lower Capital, ICT/Simulation Driven)

SN	Name of Indicative New Trade	Indicative Cost (in Cr.)
10	Virtual Analysis and Designer – FEM	0.90
11	Artificial Intelligence Programming Assistant	0.90

NB- The above list is indicative in nature. The Industry Partner may also propose and undertake other placement-linked and demand-driven trades of similar cost and infrastructure requirements, based on their sectoral expertise, workforce needs, and emerging labour market opportunities.

b) Short Term Courses:

As per PM-SETU targets, the Industry Partner shall introduce 10 short-term courses per Hub-and-Spoke ITI cluster. Such short-term courses may be placement-linked and may be proposed based on the Industry Partner's sectoral focus and workforce requirements. The short-term courses shall be designed in convergence with the existing trades and training infrastructure available in the respective ITIs, ensuring optimal utilization of existing tools, equipment, and workshop facilities, and complementing the long-term CTS programs.

A typical 2–3 month industry-linked short-term course involves:

- i. Curriculum customization and course design
- ii. Trainer honorarium or industry expert sessions
- iii. Consumables and training materials
- iv. Assessment and certification costs
- v. Placement linkage and mobilization
- vi. Minor tools/software support (if required)

An indicative provision of Rs. 60–80 lakh per Hub-and-Spoke cluster is proposed for introduction of 10 placement-linked short-term courses, covering curriculum development, trainer support, consumables, certification, and industry interface activities.

Accordingly, it is proposed minimum 2 short-term courses in the Spoke ITI, with an indicative requirement of Rs. 12-16 lakh per Spoke ITI for introducing such courses, as per PM-SETU targets.

Indicative list of short-term courses:

The following short-term courses are indicative and may be taken up under the PM-SETU framework based on local industry demand and placement potential. The Industry Partner may also introduce additional short-term courses as per their sectoral focus, workforce requirements, and operational expertise.

- | | |
|--|--|
| 1. Advanced Computer Aided Machining | 13. Product Design & Development |
| 2. Advanced Plumbing | 14. CNC Operator and Basic CNC Programming |
| 3. Advanced Welder | 15. Computer Hardware & Network Support Technician |
| 4. Automobile Maintenance, Repair and Overhaul | 16. Cyber Security Fundamentals |
| 5. Battery Electric Vehicle | 17. Drone Service and Maintenance Assistant |
| 6. Computer Aided Machining | 18. Entrepreneurship and Startup Development |
| 7. Fundamentals of Automobile Engineering | 19. EV Battery Maintenance and Safety |
| 8. Industrial Robotics I | 20. Industrial Automation Technician (PLC Basics) |
| 9. Industrial Robotics II | 21. Medical Equipment Maintenance Assistant |
| 10. Innovation & Design Thinking | 22. Soft Skills and Workplace Communication |
| 11. Internet of Things | 23. Solar PV Installation Technician |
| 12. Process Control & Automation | |

3. Indicative Manpower Requirement & Cost for Newly Proposed Trades

- i. The indicative manpower requirement has been projected to address existing instructor vacancies in key trades at the ITI.
- ii. Additional manpower support is proposed to ensure smooth rollout of newly introduced trades under the PM-SETU upgradation framework.
- iii. The manpower cost estimates have been calculated with a provision of 10% annual increment over a five-year implementation period to ensure sustained support and improved training outcomes.

SN	Manpower category	Proposed manpower for			Remuneration per Month	Cost with 10% Annual increment					Cost for 5 Yrs. (in Lakh)	Remarks
		Vacant position	new position	Total		Yr. 1	Yr. 2	Yr. 3	Yr. 4	Yr. 5		
1	Trade Instructor (for existing vacancy, proposed new unit in existing CoE trades and proposed 2 new trades in spoke)	4	17	21	25000	12.00	64.20	70.62	77.68	85.45	309.95	Existing vacancy (Regular): Cosmetology, Fitter, ICTSM and Wiremen (4) Existing trade under IMC: Cosmetology, Computer Operator Programming Assistant and Information & Communication Technology System Maintenance (3) New position for: Basic Designer and Virtual Verifier, Industrial Robotics & Digital Manufacturing, Mechanic Electric Vehicle, CNC Machining Technician, Manufacturing Process Control & Automation and Artisan using Advanced Tools (10)

												New position for: 2 new trades (4) (for Spoke)
2	Manager Operations-1 each Hub & Spoke ITI		1	1	60000	7.20	7.92	8.71	9.58	10.54	43.96	The Manager Operations shall support day-to-day implementation and coordination of PM-SETU activities at the institute level
3	Placement cum Counsellor Officer - TCPEC		1	1	40000	4.80	5.28	5.81	6.39	7.03	29.31	shall be responsible for strengthening trainee career guidance, apprenticeship linkages, and placement outcomes
4	Foreign Language Instructor		1	1	60000	7.20	7.92	8.71	9.58	10.54	43.95	The Foreign Language Instructor shall support the institute's objective of enhancing international employability and global mobility opportunities for trainees
Total		4	20	24		31.20	85.32	93.85	103.24	113.56	427.17	

4. Indicative Annual Recurring Expenditure

4.1 Training Delivery - *Indicative Recurring Expenditure*

The table below presents the **trade-wise recurring expenditure requirements** for Government ITI Morigaon under PM-SETU. These estimates are based on the approved units and training capacity of each trade and cover essential components required for effective delivery of training, including:

- i. Consumables and raw materials for practical training
- ii. Training of Trainers (ToT)
- iii. Instructor and supervisor exposure visits
- iv. Field visits for trainees within Assam
- v. On-the-Job Training (OJT) support

This trade-wise costing provides the baseline for strengthening hands-on training quality and improving employability outcomes.

4.2 Institute-level Enabling Facilities and Recurring Support

In addition to trade-specific requirements, certain common institutional facilities and support systems are proposed to be strengthened under PM-SETU to enable a modern and learner-friendly campus ecosystem. These include:

- i. Digital course content and immersive learning support (AR/VR Lab)
- ii. Foreign Language Lab facilities
- iii. Utilities (electricity, water supply, internet connectivity)
- iv. Hostel-related recurring provisions (Boys' and Girls' hostels)
- v. Contingency provisions for operational sustainability
- vi. Institute-level recurring expenditure for trainee engagement and campus activities, including annual functions, skill fairs, sports events, cultural programmes, and festival observances

These institute-level components are essential for supporting Industry 4.0 readiness, digital governance, institutional vibrancy, and enhanced trainee experience.

4.3 Consolidated Five-Year Indicative Recurring Expenditure Summary

The combined trade-wise and institute-level recurring expenditures have been aggregated to provide an indicative five-year recurring expenditure framework for SIP planning under PM-SETU.

SN	Particulars	Amount for 5 Years(in Cr.)
1	Consumables / Raw Materials for Training (@Rs. 400 per month per trainee for engineering trade and (@Rs. 300 per month per trainee for engineering trade)	1.53
2	Training of Trainers (ToT) -30 instructors @ Rs. 20,000, 5 times in the project period-5 yrs.	0.30
3	Exposure Visit for Instructor/ Supervisor (30 instructors @Rs. 40,000, 5 times in the project period-5 yrs.	0.60
4	Field visit for trainees (within Assam @ 750 per trainee for 656 estimated trainees)	0.25
5	OJT for trainee (@400 per trainee for 656 estimated trainees)	0.13
6	Digital Course Content (AR VR Lab)	0.50
7	Foreign Language Lab	0.40
8	Utilities (Electricity, Water, Internet)- @ Rs. 1L per Month	0.60
9	Hostel Contingency	0.23
Total Amount (in Cr.)		4.54

5. Summary of Indicative Cost Estimates

The indicative cost estimates for upgradation of Government ITI Rangia under the PM-SETU scheme have been developed to support a comprehensive transformation of the institute into a modern, industry-aligned and future-ready skill development centre. The proposed investment covers civil infrastructure development, repair and renovation works, modernization of training facilities, upgradation of existing trades, introduction of new and emerging technology-oriented trades, and delivery of placement-linked short-term courses. The estimates also provide for essential manpower support and recurring operational expenditure to ensure effective implementation, sustainability, and improved trainee outcomes.

It is further clarified that these costs are purely indicative in nature. The Industry Partner is required to undertake a detailed site visit and institutional assessment of the ITI, as envisaged in the RFP, before finalizing and submitting the detailed proposal and financial estimates.

SN	Component	Estimated Cost (in Cr.)
1	Civil Part- New Construction Projects	10.13
2	Civil Part- Repair, Renovation & Upgradation Projects	1.42
3	ITI Modernization & Supporting Works	7.9
4	Estimated cost for upgradation of existing trade and addition of new unit in existing trades	3.65
5	Proposed New trade (2 new for Spoke) and 3 new units in 3 existing trades	2.95
6	Short Term Courses	0.16
7	Manpower Cost	4.27
8	Recurring Expenditure-	4.54
Total indicative Amount (in Cr.)		35.02
Contingency (10%)		3.50
Grand Total Amount (in Cr.)		38.52

5.1 Year-wise Indicative Expenditure Plan (Five Years)

The year-wise indicative expenditure plan for Government ITI Rangia has been structured over a five-year implementation period as per PM-SETU norms. Major capital investments such as civil construction, renovation, modernization works, and trade upgradation are proposed to be undertaken primarily in the initial years, while manpower support and recurring operational expenditure are distributed across all five years to ensure sustained functioning and outcomes.

[illegible]

Appendix-I

Detailed Equipment Inventory: A comprehensive list of existing machinery and equipment, including their approximate age and its current functional status

1. Computer Operator and Programming Assistant

SN	Category of T&E	Name of the Tools and Equipment	Quantity required (No)	Qty Available	Approx. Age	Functional (Yes/No)
8	Trainees Tools/ Equipment	Digital Web Cam	1	3	6 Yrs.	Yes
11	Trainees Tools/ Equipment	Projector Screen		1	6 Yrs.	Yes
12	Trainees Tools/ Equipment	Crimping Tool		6	6 Yrs.	Yes
14	Trainees Tools/ Equipment	Digital Multimeters	1	3	6 Yrs.	Yes
15	Trainees Tools/ Equipment	Screw Driver Set	1	3	6 Yrs.	Yes
16	Trainees Tools/ Equipment	Mini Dongle for Bluetooth devices Connection	1	3	6 Yrs.	Yes
17	Trainees Tools/ Equipment	Headphone & mic. set	1	5	6 Yrs.	Yes
18	Trainees Tools/ Equipment	Sound System		1	6 Yrs.	Yes
20	Trainees Tools/ Equipment	Patch Panel		2	6 Yrs.	Yes
21	Trainees Tools/ Equipment	LAN Tester		6	6 Yrs.	Yes
22	Trainees Tools/ Equipment	Punching Tool	1	5	6 Yrs.	Yes
23	Software	MS Office	1	5	6 Yrs.	Yes
24	Software	Antivirus for – clients/ workstations in profile	1	5	6 Yrs.	Yes
25	Software	Tally	1	5	6 Yrs.	Yes
27	Other Items/ Furniture	Pigeon hole cabinet		1	6 Yrs.	Yes
28	Other Items/ Furniture	Chair and table for the instructor	2	2	6 Yrs.	Yes
29	Other Items/ Furniture	Dual Desk / Chair and Tables	12	12	6 Yrs.	Yes
31	Other Items/ Furniture	Operators chair	7	5	6 Yrs.	Yes

SN	Category of T&E	Name of the Tools and Equipment	Quantity required (No)	Qty Available	Approx. Age	Functional (Yes/No)
32	Other Items/ Furniture	Printer table	2	1	6 Yrs.	Yes
33	Other Items/ Furniture	Storage cabinet		1	6 Yrs.	Yes
35	Other Items/ Furniture	Steel Almirah		1	6 Yrs.	Yes
36	Other Items/ Furniture	Fire Extinguisher CO2	1	1	6 Yrs.	Yes
39	Raw Materials	RJ 45 connector	100	100	6 Yrs.	Yes
40	Raw Materials	Cable	50	50	6 Yrs.	Yes
44	Raw Materials	CDs	10	40	6 Yrs.	Yes
45	Raw Materials	DVDs	10	40	6 Yrs.	Yes

2. Cosmetology

Sl.	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
1	Tail comb	Trainees Toolkit	12	12	0	0
2	Afro/Style Comb	Trainees Toolkit	12	0	12	12
3	Open teeth tail comb	Trainees Toolkit	12	14	0	0
4	Small Bowl	Trainees Toolkit	24	6	18	18
5	Facial Band	Trainees Toolkit	24	5	19	19
6	Spray bottle	Trainees Toolkit	12	14	0	0
7	Nail File	Trainees Toolkit	12	0	12	12
8	Nail Cutter	Trainees Toolkit	12	0	12	12
9	Plain Switches	Trainees Toolkit	12	0	12	12
10	Switch Stand	Trainees Toolkit	12	16	0	0
11	Towel (Large & Medium)	Trainees Toolkit	24	0	24	24
12	Napkin	Trainees Toolkit	24	24	0	0
13	Make-up Brush set	Trainees Toolkit	12	0	12	12
14	Pack & Bleach Brush	Trainees Toolkit	12	0	12	12
15	Hair cutting Scissors	Trainees Toolkit	12	6	6	6
16	Wax applicator	Trainees Toolkit	12	0	12	12
17	Black Head Remover	Trainees Toolkit	12	4	8	8
18	Braid	Trainees Toolkit	12	12	0	0
19	Lab Coat	Trainees Toolkit	12	0	12	12
20	Manicure Set	Trainees Toolkit	12	0	12	12
21	Pedicure Set	Trainees Toolkit	12	8	4	4
22	Cutting Sheet	Trainees Toolkit	12	5	7	7
23	Barber Scissors	Tool & Equipment	12	6	6	6

Sl.	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
24	Thinning Scissors	Tool & Equipment	12	6	6	6
25	Velcro Rollers	Tool & Equipment	12	14	0	0
26	Perm rollers (Star Perm, Ladder Perm, spiral rods, Chop sticks, Wooden rollers)	Tool & Equipment	12	15	0	0
27	Dust Brush	Tool & Equipment	12	7	5	5
28	Dye Brush	Tool & Equipment	12	7	5	5
29	Back View Mirror	Tool & Equipment	12	0	12	12
30	Dye Bowl	Tool & Equipment	12	8	4	4
31	Professional Hairbrushes set	Tool & Equipment	12	7	5	5
32	Scalp steamer	Tool & Equipment	12	1	11	11
33	Hot Rollers	Tool & Equipment	12	0	12	12
34	Dummy head on stand with slip on	Tool & Equipment	12	8	4	4
35	Dryer	Tool & Equipment	12	8	4	4
36	Crimper	Tool & Equipment	3	0	3	3
37	Mirror Panel	Tool & Equipment	12	8	4	4
38	Styling Chair (multipurpose for hair & beauty services)	Tool & Equipment	12	0	12	12
39	Shampoo Station with chair	Tool & Equipment	3	3	0	0
40	Hair Trolley	Tool & Equipment	12	0	12	12
41	Ceramic Straightening Iron	Tool & Equipment	12	0	12	12
42	Curling Rods with attachments	Tool & Equipment	3	0	3	3
43	Neck Tray (for perming)	Tool & Equipment	12	0	12	12
44	Rebonding Boards	Tool & Equipment	12	0	12	12
45	Benders	Tool & Equipment	12	0	12	12
46	Hood Dryer	Tool & Equipment	3	1	2	2

Sl.	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
47	Magnifying lamp	Tool & Equipment	3	0	3	3
48	Vapozone	Tool & Equipment	3	1	2	2
49	Beauty Studio	Tool & Equipment	3	0	3	3
50	High frequency	Tool & Equipment	12	2	10	10
51	Infra red Lamp	Tool & Equipment	12	1	11	11
52	Wax heater	Tool & Equipment	12	1	11	11
53	Beauty Trolleys	Tool & Equipment	12	5	7	7
54	Facial Bed	Tool & Equipment	12	0	12	12
55	Manicure Bowls	Tool & Equipment	12	10	2	2
56	Pedi spa tub	Tool & Equipment	12	0	12	12
57	Manicure stools	Tool & Equipment	12	12	0	0
58	Manicure table	Tool & Equipment	12	4	8	8
59	Pedi stool	Tool & Equipment	12	0	12	12
60	Manicure Trolley	Tool & Equipment	12	0	12	12
61	Dry Sterilizer	Tool & Equipment	3	0	3	3
62	Boiler	Tool & Equipment	12	0	12	12
63	Front wash Basin	Tool & Equipment	3	2	1	1
64	Blanket	Tool & Equipment	12	0	12	12
65	Hot towel cabinet	Tool & Equipment	3	0	3	3
66	Desktop Computer	Computer	12	0	12	12
67	Computer Table	Furniture and Fitting	12	0	12	12
68	Heat Convector	Tool & Equipment	24	0	24	24
69	Student Lockers	Furniture and Fitting	24	0	24	24
70	Refrigerator	IT hardware	1	0	1	1
71	Almirah	Furniture and Fitting	3	1	2	2

Sl.	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
72	Teacher's Chair and table set	Furniture and Fitting	1	1	0	0
73	Wet Sterilizer	Tool & Equipment	3	0	3	3
74	Student's chair with flap	Furniture and Fitting	24	0	24	24
75	LCD projector	IT hardware	1	0	1	1
76	Computer set with UPS	Computer	1	0	1	1
77	White Magnetic Board with felt board	IT hardware	1	0	1	1
78	Display board	Furniture and Fitting	2	0	2	2
79	Yoga Mat	Furniture and Fitting	24	0	24	24

3. Fitter -

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
1	Steel Rule with metric & British graduation	Trainees Toolkit	10	17	0	0
2	Try Square.	Trainees Toolkit	10	17	0	0
3	Caliper inside spring type.	Trainees Toolkit	10	16	0	0
4	Caliper hermaphrodite spring type	Trainees Toolkit	10	16	0	0
5	Caliper outside spring type	Trainees Toolkit	10	16	0	0
6	Divider spring type/wingcompass	Trainees Toolkit	10	16	0	0
7	Scriber	Trainees Toolkit	10	16	0	0
8	Centre Punch	Trainees Toolkit	10	16	0	0
9	Screw driver	Trainees Toolkit	10	16	0	0
10	Chisel cold flat-20mm x 150 mm	Trainees Toolkit	10	16	0	0
11	Hammer ball peen with handle-450 grams	Trainees Toolkit	10	16	0	0
12	Hammer ball peen with handle-220 grams	Trainees Toolkit	10	16	0	0
13	File flat - second cut	Trainees Toolkit	10	16	0	0
14	File flat smooth	Trainees Toolkit	10	16	0	0
15	File half round second cut	Trainees Toolkit	10	16	0	0
16	Hacksaw frame fixed type	Trainees Toolkit	10	16	0	0
17	Safety goggles.	Trainees Toolkit	10	16	0	0
18	Dot punch	Trainees Toolkit	10	16	0	0

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
19	Steel Rule Graduated both in Metric and English Unit	Tools and Equipment	8	4	4	4
20	Straight edge steel	Tools and Equipment	2	2	0	0
21	Spirit Level metal Type - 2	Tools and Equipment	2	1	1	1
22	Stud Extractor EZY - out	Tools and Equipment	4	2	2	2
23	Combination Set	Tools and Equipment	4	2	2	2
24	Micrometer outside (0-25)	Tools and Equipment	4	1	3	3
25	Micrometer outside(25-50)	Tools and Equipment	4	1	3	3
26	Micrometer outside(50-70)	Tools and Equipment	4	1	3	3
27	Micrometer inside with extension rods.	Tools and Equipment	2	1	1	1
28	Digital Vernier caliper-0-150 mm	Tools and Equipment	8	3	5	5
29	Vernier height gauges	Tools and Equipment	2	1	1	1
30	Vernier bevel protractor Blade with Acute Angle Attachment	Tools and Equipment	2	1	1	1
31	Screw pitch gauge Metric	Tools and Equipment	2	1	1	1
32	Wire gauge, metric standard.	Tools and Equipment	2	1	1	1
33	Surface plate C.I./Granite with Stand and Cover	Tools and Equipment	2	1	1	1
34	Marking table (Mild steel)	Tools and Equipment	2	1	1	1
35	Universal scribing block.	Tools and Equipment	4	1	3	3
36	V-Block pair with clamps	Tools and Equipment	4	1	3	3
37	Angle plate	Tools and Equipment	4	1	3	3
38	Punch letter set.	Tools and Equipment	2	1	1	1
39	Punch number set.	Tools and Equipment	2	1	1	1
40	Portable hand drill (Electric)	Tools and Equipment	2	1	1	1
41	Drill twist straight shank	Tools and Equipment	4	1	3	3
42	Drill twist Taper shank	Tools and Equipment	4	1	3	3

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
43	Taps and dies complete set in box.	Tools and Equipment	2	1	1	1
44	Taps and dies complete set	Tools and Equipment	4	1	3	3
45	File knife edge smooth	Tools and Equipment	8	2	6	6
46	File feather edge smooth	Tools and Equipment	8	2	6	6
47	File triangular smooth	Tools and Equipment	20	8	12	12
48	File round second cut	Tools and Equipment	20	8	12	12
49	File square second cut	Tools and Equipment	20	8	12	12
50	Feeler gauge	Tools and Equipment	2	1	1	1
51	File triangular second cut.	Tools and Equipment	20	8	12	12
52	File flat second cut safe edge.	Tools and Equipment	20	8	12	12
53	File flat bastard	Tools and Equipment	20	8	12	12
54	File flat bastard.	Tools and Equipment	20	8	12	12
55	File Swiss type needle	Tools and Equipment	4	1	3	3
56	File half round second cut.	Tools and Equipment	20	8	12	12
57	File half round bastard.	Tools and Equipment	20	8	12	12
58	File round bastard.	Tools and Equipment	20	8	12	12
59	File hand second cut.	Tools and Equipment	20	8	12	12
60	File card.	Tools and Equipment	20	0	20	20
61	Oil Can	Tools and Equipment	4	2	2	2
62	Pliers combination insulated	Tools and Equipment	4	2	2	2
63	Wooden handle forged Soldering Iron copper bit.	Tools and Equipment	4	1	3	3
64	Blow Lamp	Tools and Equipment	4	2	2	2
65	Spanner- Double Ended	Tools and Equipment	2	1	1	1
66	Spanner adjustable	Tools and Equipment	4	1	3	3
67	Interchangeable ratchet socket set	Tools and Equipment	2	1	1	1

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
68	Double Ended tubular Box spanner set with Tommy bar.	Tools and Equipment	2	1	1	1
69	Glass magnifying	Tools and Equipment	4	2	2	2
70	Clamp toolmaker	Tools and Equipment	4	2	2	2
71	Clamp "C" (100 mm)	Tools and Equipment	4	2	2	2
72	Clamp "C" (200 mm)	Tools and Equipment	4	2	2	2
73	Hand Reamer set (Taper pin straight flute)	Tools and Equipment	2	1	1	1
74	Machine Reamer parallel (Helical flute)	Tools and Equipment	2	1	1	1
75	Scraper flat	Tools and Equipment	20	4	16	16
76	Scraper triangular	Tools and Equipment	20	4	16	16
77	Scraper half round	Tools and Equipment	20	4	16	16
78	Chisel cold cross cut & diamond point.	Tools and Equipment	20	4	16	16
79	Chisel cold flat-9 mm x 100 mm	Tools and Equipment	20	4	16	16
80	Chisel cold round noze.	Tools and Equipment	20	0	20	20
81	Drill chuck with key	Tools and Equipment	2	1	1	1
82	Pipe wrench	Tools and Equipment	2	1	1	1
83	Pipe vice	Tools and Equipment	2	1	1	1
84	Adjustable pipe die set BSP	Tools and Equipment	2	1	1	1
85	Wheel dresser (One for 4 units) Star/Dresser with Holder	Tools and Equipment	2	0	2	2
86	Machine vice - Swivel Base (100 MM)	Tools and Equipment	2	1	1	1
87	Machine vice - Swivel Base (125 MM)	Tools and Equipment	2	1	1	1
88	Sleeve drill Morse	Tools and Equipment	2	1	1	1
89	Vice bench	Tools and Equipment	40	16	24	24
90	Bench working.	Tools and Equipment	4	2	2	2
91	Almirah.	Tools and Equipment	2	2	0	0

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
92	Lockers with 8 drawers (standard size).	Tools and Equipment	6	1	5	5
93	Metal rack	Tools and Equipment	2	0	2	2
94	Instructor Table	Tools and Equipment	2	1	1	1
95	Instructor Chair	Tools and Equipment	2	1	1	1
96	Black board with easel.	Tools and Equipment	2	0	2	2
97	Fire extinguisher	Tools and Equipment	4	0	4	4
98	Fire buckets.	Tools and Equipment	2	0	2	2
99	Machine vice.	Tools and Equipment	4	1	3	3
100	Wing compass.	Tools and Equipment	4	1	3	3
101	Hand hammer with handle.	Tools and Equipment	2	1	1	1
102	Torque wrench (Standard/Ratchet type)	Tools and Equipment	2	1	1	1
103	Power tools for fastening	Tools and Equipment	2	0	2	2
104	Different Profile gauges (Plate type) - For demonstration	Tools and Equipment	8	1	7	7
105	Knurling tool (Diamond, straight & Diagonal)	Tools and Equipment	2	1	1	1
106	Indexable boring bar with inserts	Tools and Equipment	8	0	8	8
107	Machine maintenance mannual for Lathe Pedestal grinder, Drill machine, Power saw	Tools and Equipment	2	0	2	2
108	Temperature gauge	Tools and Equipment	2	0	2	2
109	Dowel pin (straight)	Tools and Equipment	2	0	2	2
110	Standard Tap screws	Tools and Equipment	2	0	2	2
111	Lapping plate	Tools and Equipment	4	0	4	4
112	Medium carbon Heat treated alloy steel Metric Studs and bolts along with nuts (for display) of standard length (May be manufactured in-house)	Tools and Equipment	4	0	4	4
113	Caps screws	Tools and Equipment	4	0	4	4

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
114	Drill gauges	Tools and Equipment	4	0	4	4
115	Cast Iron Globe Valve (Flanged type)	Tools and Equipment	4	0	4	4
116	C.I. Sluice / Gate valve (flanged type)	Tools and Equipment	4	0	4	4
117	Stop cock	Tools and Equipment	4	0	4	4
118	Slip-on Forged steel Flange	Tools and Equipment	8	0	8	8
119	Bolt & Nut with washer (May be manufactured in-house) manufactured in-house)	Tools and Equipment	40	0	40	40
120	Pipe threading die with handle	Tools and Equipment	4	1	3	3
121	Jigs & Fixture (sample)-For demonstration (May be manufactured in-house)	Tools and Equipment	2	0	2	2
122	Pulleys (for V-belt or Flat belt)	Tools and Equipment	2	0	2	2
123	Steel keys (May be manufactured in-house)	Tools and Equipment	4	0	4	4
124	Damaged old spur gear	Tools and Equipment	4	0	4	4
125	V-belt and Flat belt	Tools and Equipment	2	0	2	2
126	Packing gasket	Tools and Equipment	2	0	2	2
127	Washer, clutch, keys, jib, cotter & circlip	Tools and Equipment	4	0	4	4
128	Hollow punch	Tools and Equipment	2	0	2	2
129	Drill Drift (May be manufactured in-house)	Tools and Equipment	4	0	4	4
130	Bearing different types	Tools and Equipment	2	0	2	2
131	Lifting sling	Tools and Equipment	4	0	4	4
132	Bearing extractor	Tools and Equipment	2	0	2	2
133	Pulley extractor	Tools and Equipment	2	0	2	2
134	Trammel	Tools and Equipment	2	1	1	1
135	Pocker	Tools and Equipment	4	1	3	3
136	Prick punch	Tools and Equipment	4	2	2	2

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
137	Mallet.	Tools and Equipment	4	2	2	2
138	Aviation Snips straight Cut	Tools and Equipment	4	2	2	2
139	Flat headed hammers with handle.	Tools and Equipment	4	2	2	2
140	Planishing hammer.	Tools and Equipment	4	1	3	3
141	Snip bent Left Cut	Tools and Equipment	4	1	3	3
142	Stake hatchet with Leg.	Tools and Equipment	4	1	3	3
143	Stake grooving.	Tools and Equipment	4	1	3	3
144	Slip Gauge as Johnson metric set.	Tools and Equipment	2	1	1	1
145	Gauge snap Go and Not Go	Tools and Equipment	2	1	1	1
146	Gauge plug	Tools and Equipment	2	0	2	2
147	Gauge telescopic set.	Tools and Equipment	2	1	1	1
148	Dial test indicator on stand	Tools and Equipment	2	1	1	1
149	Sine bar	Tools and Equipment	2	1	1	1
150	Dial vernier caliper. (Universal type)	Tools and Equipment	2	1	1	1
151	Screw thread micrometer with interchangeable. Pitch anvils for checking metric threads 60.	Tools and Equipment	2	1	1	1
152	Depth micrometer. 0-25 mm	Tools and Equipment	2	1	1	1
153	Digital Vernier caliper 0 - 200 mm	Tools and Equipment	2	1	1	1
154	Digital Micrometer outside.	Tools and Equipment	2	1	1	1
155	Comparators Gauge - Dial Indication with Stand and Bracket.	Tools and Equipment	2	1	1	1
156	Engineer's try square (knife-edge)	Tools and Equipment	2	1	1	1
157	Surface roughness comparison plates	Tools and Equipment	2	1	1	1
158	Digital Vernier caliper	Tools and Equipment	2	1	1	1
159	Vernier Bevel protector	Tools and Equipment	2	1	1	1

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
160	Carbide Wear Block.	Tools and Equipment	4	1	3	3
161	Lathe tools H.S.S. tipped set.	Tools and Equipment	4	1	3	3
162	Lathe tools bit (6 mm x 75 mm)	Tools and Equipment	8	1	7	7
163	Lathe tools bit (8 mm x 75 mm)	Tools and Equipment	8	1	7	7
164	Lathe tools bit (10 mm x 75 mm)	Tools and Equipment	8	1	7	7
165	Arm strong type tool bit holder(Right Hand)	Tools and Equipment	4	1	3	3
166	Arm strong type tool bit holder(Left Hand)	Tools and Equipment	4	1	3	3
167	Arm strong type tool bit holder(Straight Hand)	Tools and Equipment	4	1	3	3
168	Stillson wrenches	Tools and Equipment	4	1	3	3
169	Adjustable spanner.	Tools and Equipment	2	1	1	1
170	SS and SC centre lathe (all geared) with minimum specification	Tools and Equipment	2	1	1	1
171	Pillar Type Drilling machine	Tools and Equipment	2	1	1	1
172	Drilling machine bench	Tools and Equipment	2	1	1	1
173	D.E. pedestal Grinding machine with wheels rough and smooth	Tools and Equipment	2	1	1	1
174	Transformer welding set - continuous welding current, with all accessories and electrode holder 60% Duty Cycle with Standard Accessories	Tools and Equipment	2	0	2	2
175	Lugs for cable	Tools and Equipment	24	0	24	24
176	Earth clamps	Tools and Equipment	2	0	2	2
177	Arc welding table (all metal top) with positioner.	Tools and Equipment	2	0	2	2
178	Oxy - acetylene gas welding set equipment with hoses, Oxygen & Acetylene cylinders, regulator and other accessories.with hoses, Oxygen & Acetylene cylinders, regulator and other accessories.	Tools and Equipment	2	0	2	2

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
179	Gas welding table with positioner with Fire Bricks	Tools and Equipment	2	0	2	2
180	Welding torch tips of different sizes for Oxy - acetylene gas welding	Tools and Equipment	2	0	2	2
181	Gas lighter.	Tools and Equipment	4	0	4	4
182	Trolley for gas cylinders.	Tools and Equipment	2	0	2	2
183	Chipping hammer.	Tools and Equipment	4	0	4	4
184	Gloves (Leather)	Tools and Equipment	4	1	3	3
185	Leather apron.	Tools and Equipment	4	1	3	3
186	Spindle key for cylinder valve.	Tools and Equipment	4	0	4	4
187	Welding torches.	Tools and Equipment	2	0	2	2
188	Welding goggles	Tools and Equipment	8	0	8	8
189	Welding helmet with coloured flame retardant glass	Tools and Equipment	4	0	4	4
190	Tip cleaner	Tools and Equipment	10	1	9	9
191	Compressor unit	Tools and Equipment	2	0	2	2
192	Pneumatic Trainer Kit, each consisting of the matching components and accessories	Tools and Equipment	1	0	1	1
193	Cut-section models for hydraulic components	Tools and Equipment	1	0	1	1
194	Hydraulic Trainer Kit, each consisting of the matching components and accessories	Tools and Equipment	1	0	1	1

4. Information & Communication Technology System Maintenance

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
1	Connecting screwdriver	Trainees Toolkit	25	0	25	25
2	Neon tester	Trainees Toolkit	25	25	0	0
3	Screw driver set	Trainees Toolkit	25	25	0	0

4	Insulated combination pliers	Trainees Toolkit	25	10	15	15
5	Insulated side cutting pliers	Trainees Toolkit	25	17	8	8
6	Long nose pliers	Trainees Toolkit	25	17	8	8
7	Soldering iron	Trainees Toolkit	25	10	15	15
8	Electrician knife	Trainees Toolkit	25	10	15	15
9	Tweezers	Trainees Toolkit	25	10	15	15
10	Digital Multimeter	Trainees Toolkit	25	4	21	21
11	Soldering Iron Changeable bits	Trainees Toolkit	25	4	21	21
12	De- soldering pump	Trainees Toolkit	25	10	15	15
13	Crimping tool (pliers)	Tool & Equipment	2	2	0	0
14	Soldering Iron	Tool & Equipment	6	6	0	0
15	Magneto spanner set	Tool & Equipment	2	1	1	1
16	Screw driver	Tool & Equipment	4	2	2	2
17	Steel rule	Tool & Equipment	2	2	0	0
18	Scriber straight	Tool & Equipment	2	2	0	0
19	Soldering Iron	Tool & Equipment	1	0	1	1
20	Allen key set	Tool & Equipment	2	2	0	0
21	Tubular box spanner	Tool & Equipment	1	1	0	0
22	Magnifying lenses	Tool & Equipment	3	2	1	1
23	Continuity tester	Tool & Equipment	6	6	0	0
24	Soldering iron	Tool & Equipment	6	0	6	6
25	Cold chisel	Tool & Equipment	1	1	0	0
26	Scissors	Tool & Equipment	1	1	0	0
27	Handsaw	Tool & Equipment	1	1	0	0
28	Server Computer	Computer	1	1	0	0
29	Desktop Computer	Computer	12	8	4	4
30	Laptop, Notebook	Computer	1	0	1	1
31	Intel Mobile Desktop based PC with LCD monitor	Computer	1	0	1	1
32	Tablet	Computer	1	0	1	1

33	Printers: LaserJet, DeskJet, passbook, mfd	Computer	1	1	0	0
34	Network Printer	Computer	1	0	1	1
35	Online UPS	Computer	1	0	1	1
36	LAN Cards, Wi-fi LAN Cards	Computer	6	0	6	6
37	LCD/DLP Projector	Computer	1	1	0	0
38	Power Meter	Tool & Equipment	2	0	2	2
39	Crimping Tools	Tool & Equipment	6	2	4	4
40	Computer Toolkits	Computer	6	0	6	6
41	Motherboards (of different make)	Computer	4	0	4	4
42	Cabinets	Computer	4	0	4	4
43	Processors (of different make)	Computer	4	0	4	4
44	Hard Disk different types	Computer	4	0	4	4
45	Optical Drives	Computer	4	0	4	4
46	LCD/LED/TFT Monitors	Computer	2	2	0	0
47	Pen Drives	Computer	4	0	4	4
48	External Hard disk	Computer	2	0	2	2
49	External DVD Writer	Computer	2	0	2	2
50	Keyboards	Computer	4	4	0	0
51	Mouse	Computer	4	4	0	0
52	Anti static pads	Computer	4	0	4	4
53	Anti static wrist wraps	Computer	4	0	4	4
54	SMPS	Computer	4	4	0	0
55	Digital Multimeters	Tool & Equipment	12	4	8	8
56	Blu-Ray drive and player	Computer	2	0	2	2
57	External Hard Disk	Computer	2	0	2	2
58	Digital Camera	Computer	2	0	2	2
59	HD Display	Computer	2	0	2	2
60	Network storage	Computer	2	0	2	2
61	Card Reader	Computer	2	0	2	2
62	Game video card	Computer	2	0	2	2
63	Web Cam	Computer	2	1	1	1
64	Surround sound speakers	Computer	2	0	2	2
65	Different types of memory cards	Computer	2	0	2	2
66	Laptop kits	Computer	2	0	2	2

67	SMPS Trainer kit	Tool & Equipment	2	0	2	2
68	Post error debugging card	Tool & Equipment	4	0	4	4
69	SMPS Tester	Tool & Equipment	4	0	4	4
70	PCI slot Testing tool	Tool & Equipment	4	0	4	4
71	Windows Server Operating System	Software	1	1	0	0
72	Windows Operating System	Software	2	1	1	1
73	Linux Operating System	Software	2	1	1	1
74	Network Management Software	Software	1	1	0	0
75	MS Office	Software	2	2	0	0
76	Anti-virus software	Software	2	0	2	2
77	Data recovery software	Software	2	0	2	2
78	Computer Tables	Furniture and Fitting	12	8	4	4
79	Computer Chairs	Furniture and Fitting	24	8	16	16
80	Printer Table	Furniture and Fitting	1	1	0	0
81	Class Room Chairs	Furniture and Fitting	24	12	12	12
82	Scanner	IT-Hardware	1	1	0	0
83	Modem	IT-Hardware	1	1	0	0
84	Broadband Internet Connection	Networking	1	0	1	1
85	Fire Fighting Equipment	Tool & Equipment	1	0	1	1
86	Hardware and Network Trainer Kit	Tool & Equipment	6	0	6	6
87	Wireless Network Adapter	Networking	6	0	6	6
88	Wireless Access Point	Networking	4	0	4	4
89	Router	Networking	4	0	4	4
90	Managed Layer 2 Ethernet Switch	Networking	2	0	2	2
91	Managed Layer 3 Ethernet Switch	Networking	2	0	2	2
92	Network Training System	Networking	2	0	2	2
93	LAN Protocol Simulation and Analyser Software	Networking	2	0	2	2

94	Network and Internet security trainer	Networking	2	0	2	2
95	LAN cable tester	Networking	2	0	2	2
96	LAN Cards, wi-fi LAN Card	Networking	5	0	5	5
97	Power Meter	Networking	2	0	2	2
98	Media Convertor	Networking	4	0	4	4
99	UTP jack panel	Networking	2	0	2	2
100	SC Couplers	Networking	12	0	12	12
101	SC Pigtails	Networking	12	0	12	12
102	Fluke Meter	Tool & Equipment	2	0	2	2
103	Crimping Tools	Tool & Equipment	6	2	4	4
104	Switch with POE ports	Computer	2	0	2	2
105	POE adapters	Computer	2	0	2	2
106	Network Camera (Outdoor/ Indoor)	Computer	2	0	2	2

5. Painter (General)-

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
1	Rule steel	Trainees Tool Kit	21	4	17	17
2	Drawing Board	Trainees Tool Kit	21	0	21	21
3	Rule wooden (Consumable)	Trainees Tool Kit	21	0	21	21
4	Brush Round Short Hair- (Consumable)	Trainees Tool Kit	21	21	0	0
5	Brush Flat Short Hair - (Consumable)	Trainees Tool Kit	21	21	0	0
6	Varnish Brush soft hair- (Consumable)	Trainees Tool Kit	21	21	0	0
7	Colour Pallet for water colour (Consumable)	Trainees Tool Kit	21	0	21	21
8	Stencil/ Paper Cutter (Consumable)	Trainees Tool Kit	21	0	21	21
9	T' Square	Tools and Equipment	2	0	2	2
10	Easel 'a' Type stand	Tools and Equipment	2	0	2	2
11	Square Blade	Tools and Equipment	1	0	1	1
12	Scriber	Tools and Equipment	5	3	2	2

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
13	Marking Gauge	Tools and Equipment	1	0	1	1
14	Wing Compass	Tools and Equipment	5	0	5	5
15	Hand saw	Tools and Equipment	5	1	4	4
16	Tendon Saw	Tools and Equipment	1	0	1	1
17	Hack Saw with Frame	Tools and Equipment	5	0	5	5
18	Smoothing Plane	Tools and Equipment	1	2	0	0
19	Jack Plane	Tools and Equipment	1	0	1	1
20	Mallet Round	Tools and Equipment	5	4	1	1
21	Carpenter Hammer (Ball Pin)	Tools and Equipment	2	2	0	0
22	Hammer (Crass Pin)	Tools and Equipment	2	1	1	1
23	Hammer (Claw)	Tools and Equipment	2	0	2	2
24	Portable Electric Hand Drill Machine	Tools and Equipment	1	0	1	1
25	Drill Bits (Consumable)	Tools and Equipment	1	0	1	1
26	Chisel Knife-	Tools and Equipment	1	1	0	0
27	Hacking Knife	Tools and Equipment	1	0	1	1
28	Palate Knife Set	Tools and Equipment	5	4	1	1
29	Diamond Glazier Knife	Tools and Equipment	1	0	1	1
30	Paint Tin Opener	Tools and Equipment	2	0	2	2
31	Scraper Knife	Tools and Equipment	5	3	2	2
32	Shave Huck Knife	Tools and Equipment	1	0	1	1
33	Glider Knife	Tools and Equipment	5	0	5	5
34	Pliers Insulated	Tools and Equipment	1	1	0	0
35	Paint Burner (Acetylene Gas)	Tools and Equipment	1	0	1	1
36	Blow Lamp	Tools and Equipment	2	1	1	1
37	Screw Driver	Tools and Equipment	2	2	0	0

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
38	Step Ladder (Aluminum)	Tools and Equipment	2	2	0	0
39	Scaffolding (Movable)	Tools and Equipment	1	0	1	1
40	working Bench	Tools and Equipment	1	0	1	1
41	Bench Vice	Tools and Equipment	2	0	2	2
42	Weight Per Litter Cup	Tools and Equipment	1	0	1	1
43	Ford Cop for Viscosity Measurement with stand	Tools and Equipment	2	0	2	2
44	Mild Steel Panels	Tools and Equipment	20	0	20	20
45	Sink (Stainless steel)	Tools and Equipment	4	0	4	4
46	Fire Extinguisher	Tools and Equipment	2	0	2	2
47	Fire Buckets with stand (4 in 1)	Tools and Equipment	1	0	1	1
48	Suction feed spray gun with accessories.	Tools and Equipment	2	1	1	1
49	Portable Electric Hand Grinder	Tools and Equipment	1	0	1	1
50	Gloss Meter	Tools and Equipment	1	0	1	1
51	Infra red lamp	Tools and Equipment	2	0	2	2
52	Digital DFT meter	Tools and Equipment	2	0	2	2
53	Orbital Sander Machine with dust collector	Tools and Equipment	5	0	5	5
54	Aerograph (Air Brush/ Pen Gun)	Tools and Equipment	1	1	0	0
55	Pneumatic Polishing Machine with Pads	Tools and Equipment	5	0	5	5
56	Goggles (Consumable)	Tools and Equipment	5	5	0	0
57	Face Mask & Respirator (Consumable)	Tools and Equipment	5	5	0	0
58	Gloves (Rubber) (Consumable)	Tools and Equipment	5	5	0	0
59	Pipe vice	Tools and Equipment	2	1	1	1
60	Hacksaw	Tools and Equipment	2	2	0	0
61	Pipe wrench	Tools and Equipment	2	1	1	1
62	flat file- smooth finish	Tools and Equipment	2	2	0	0

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
63	Circular cut file	Tools and Equipment	2	1	1	1
64	Raft cut	Tools and Equipment	2	1	1	1
65	Pipe die set metric & Inches	Tools and Equipment	1	0	1	1
66	Gun Spray with Gravity Feed Cup with Complete accessories	Tools and Equipment	2	1	1	1
67	Conventional Spray Gun For Pressure Feed	Tools and Equipment	2	1	1	1
68	Electric spray gun	Tools and Equipment	1	0	1	1
69	Comb Gauge	Tools and Equipment	2	0	2	2
70	Pencil Hardness Tester	Tools and Equipment	2	0	2	2
71	Digital Weight Machine	Tools and Equipment	1	0	1	1
72	Air Compressor-Single phase	General Installation	1	1	0	0
73	Air Compressor-3 Phase	General Installation	1	0	1	1
74	Pressure Feed Container with Conventional	General Installation	1	0	1	1
75	Electrostatic spray Gun unit	General Installation	1	0	1	1
76	Airless Spray Gun unit	General Installation	1	1	0	0
77	Sealer Drum Press Pump with Sealer Gun Assembly	General Installation	1	0	1	1
78	Side Draught Dry Paint Booth- Overall Dimensions (mm):	General Installation	1	1	0	0
79	Power Coating set up with Gun booth & Oven	General Installation	1	0	1	1
80	Stool	Shop Floor Furniture and Materials	20	0	20	20
81	Desk with Locker	Shop Floor Furniture and Materials	20	0	20	20
82	Metal Shelving Rack Open Type	Shop Floor Furniture and Materials	2	0	2	2
83	Steel Locker's with 8 Drawer's	Shop Floor Furniture and Materials	3	1	2	2
84	Green Glass Board	Shop Floor Furniture and Materials	1	0	1	1

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
85	Cupboard	Shop Floor Furniture and Materials	4	0	4	4
86	Instructor table and	Shop Floor Furniture and Materials	1	1	0	0
87	Instructor chair	Shop Floor Furniture and Materials	2	2	0	0
88	Computers with Accessories	Designing Lab	10	1	9	9
89	Computer Table	Designing Lab	10	0	10	10
90	Students Chair	Designing Lab	20	0	20	20
91	Scanner High Resolution	Designing Lab	1	0	1	1
92	Printer Lager/colour	Designing Lab	1	1	0	0
	Software Card Draw / Page Make/Photo Shop / Shree Lippi / ISM / Acee - Dcee Viewer (Latest					
93	Version)	Designing Lab	1	0	1	1
94	Camera Digital	Designing Lab	1	0	1	1
95	Radium Plotter and cutter with stand	Designing Lab	1	0	1	1

6. Welder:

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
1	Welding helmet fiber	Trainees Tool Kit	42	26	16	16
2	Welding hand shield fiber	Trainees Tool Kit	42	26	16	16
3	Chipping hammer	Trainees Tool Kit	42	26	16	16
4	Chisel cold	Trainees Tool Kit	42	26	16	16
5	Centre punch	Trainees Tool Kit	42	26	16	16
6	Dividers	Trainees Tool Kit	42	26	16	16
7	Stainless steel rule	Trainees Tool Kit	42	26	16	16
8	Scriber	Trainees Tool Kit	42	26	16	16
9	Flat Tongs	Trainees Tool Kit	42	26	16	16
10	Hack saw frame	Trainees Tool Kit	42	5	37	37

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
11	File half round	Trainees Tool Kit	42	12	30	30
12	File flat	Trainees Tool Kit	42	12	30	30
13	Hammer ball pane	Trainees Tool Kit	42	8	34	34
14	Tip Cleaner	Trainees Tool Kit	42	4	38	38
15	Try square	Trainees Tool Kit	42	0	42	42
16	Spindle key	Tools & Equipment	8	4	4	4
17	Screw Driver	Tools & Equipment	2	2	0	0
18	Number punch	Tools & Equipment	4	1	3	3
19	Letter punch	Tools & Equipment	4	1	3	3
20	Magnifying glass	Tools & Equipment	4	2	2	2
21	Universal Weld measuring gauge	Tools & Equipment	4	0	4	4
22	Earth clamp	Tools & Equipment	12	6	6	6
23	Spanner D.E.	Tools & Equipment	4	2	2	2
24	C-Clamps	Tools & Equipment	4	4	0	0
25	Hammer sledge	Tools & Equipment	2	2	0	0
26	S.S tape	Tools & Equipment	2	1	1	1
27	Electrode holder	Tools & Equipment	12	6	6	6
28	H.P. Welding torch	Tools & Equipment	4	1	3	3
29	Oxygen Gas Pressure	Tools & Equipment	4	1	3	3
30	Acetylene Gas Pressure	Tools & Equipment	4	1	3	3
31	CO2 Gas pressure regulator	Tools & Equipment	4	0	4	4
32	Argon Gas pressure regulator	Tools & Equipment	4	0	4	4
33	Metal rack	Tools & Equipment	2	1	1	1
34	First Aid box	Tools & Equipment	2	0	2	2
35	Steel lockers	Tools & Equipment	4	1	3	3

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
36	Steel almirah / cupboard	Tools & Equipment	4	2	2	2
37	Flash back arrester (torch mounted)	Tools & Equipment	8	0	8	8
38	Flash back arrester (cylinder mounted)	Tools & Equipment	8	0	8	8
39	Welding Transformer	General Shop Outfit	2	1	1	1
40	Welding Transformer (or) Inverter based welding machine	General Shop Outfit	2	1	1	1
41	D.C Arc welding rectifiers set with all accessories	General Shop Outfit	2	1	1	1
42	GMAW welding machine	General Shop Outfit	2	1	1	1
43	AC/DC GTAW welding machine	General Shop Outfit	2	1	1	1
44	Air Plasma cutting equipment	General Shop Outfit	2	0	2	2
45	Air compressor suitable for above air plasma cutting system.	General Shop Outfit	2	0	2	2
46	Auto Darkening Welding Helmet	General Shop Outfit	4	0	4	4
47	Spot welding machine	General Shop Outfit	2	0	2	2
48	Portable gas cutting machine	General Shop Outfit	2	0	2	2
49	Pedestal grinder fitted with coarse and medium grain size grinding wheels	General Shop Outfit	2	1	1	1
50	Bench grinder fitted with fine grain size silicon carbide green grinding wheel	General Shop Outfit	2	0	2	2
51	AG 4 Grinder	General Shop Outfit	4	0	4	4
52	Suitable gas welding table	General Shop Outfit	4	0	4	4
53	Suitable Arc welding table	General Shop Outfit	12	2	10	10
54	Trolley for cylinder (H.P. Unit)	General Shop Outfit	4	2	2	2
55	Hand shearing machine capacity	General Shop Outfit	2	0	2	2
56	Power saw machine	General Shop Outfit	2	1	1	1
57	Portable drilling machine	General Shop Outfit	2	1	1	1
58	Oven, electrode drying	General Shop Outfit	2	1	1	1

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
59	Work bench	General Shop Outfit	8	1	7	7
60	Oxy Acetylene Gas cutting blow pipe	General Shop Outfit	4	2	2	2
61	Oxygen, Acetylene Cylinders **	General Shop Outfit	4	2	2	2
62	CO2 cylinder **	General Shop Outfit	4	0	4	4
63	Argon gas cylinder **	General Shop Outfit	4	0	4	4
64	Anvil 12 sq. inches working area with stand	General Shop Outfit	2	0	2	2
65	Swage block	General Shop Outfit	2	0	2	2
66	Die penetrant testing kit	General Shop Outfit	2	0	2	2
67	Magnetic particle testing Kit #	General Shop Outfit	2	0	2	2
68	Fire extinguishers (foam type and CO2 type)	Consumable	2	1	1	1
69	Fire buckets with stand	Consumable	8	1	7	7
70	Portable abrasive cut-off machine	Consumable	2	0	2	2
71	Suitable Gas cutting table	Consumable	2	0	2	2
72	Welding Simulators for SMAW/GTAW/GMAW	Consumable	2	0	2	2
73	Leather Hand Gloves	Consumable	40	0	40	40
74	Cotton hand Gloves	Consumable	40	26	14	14
75	Leather Apron leather	Consumable	40	26	14	14
76	S.S Wire brush	Consumable	40	26	14	14
77	Leather hand sleeves	Consumable	40	26	14	14
78	Safety boots for welders	Consumable	40	40	0	0
79	Leg guards leather	Consumable	40	0	40	40
80	Rubber hose clips	Consumable	40	20	20	20
81	Rubber hose oxygen	Consumable	4	2	2	2
82	Rubber hose acetylene	Consumable	4	2	2	2
83	Arc welding cables multi cored copper	Furniture	90	90	0	0
84	Arc welding single coloured glasses	Furniture	68	24	44	44
85	Arc welding plain glass	Furniture	136	0	136	136
86	Gas welding Goggles	Furniture	68	26	42	42
87	Safety goggles plain	Furniture	68	26	42	42

7. Wireman:

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
1	Steel rule	Tools & Equipment	42	8	34	34
2	Screw Driver	Tools & Equipment	42	34	8	8
3	Screw Driver	Tools & Equipment	42	32	10	10
4	Terminal screw Driver	Tools & Equipment	42	0	42	42
5	Knife Electrician	Trainees Tool Kit	42	16	26	26
6	Hammer Ball peen.	Tools & Equipment	42	20	22	22
7	Plumb bob	Trainees Tool Kit	42	34	8	8
8	Combination pliers insulated	Tools & Equipment	42	15	27	27
9	Neon tester pencil bit type	Tools & Equipment	42	0	42	42
10	Try square	Trainees Tool Kit	42	34	8	8
11	Small crimping tools (assorted)	Tools & Equipment	42	0	42	42
12	Spanner set DE	Tools & Equipment	42	34	8	8
13	Screw driver set (set of 5)	Tools & Equipment	42	20	22	22
14	File half round 2nd cut	Tools & Equipment	42	10	32	32
15	File round 2nd cut	Tools & Equipment	42	20	22	22
16	Soldering iron	Trainees Tool Kit	42	0	42	42
17	Neon tester	Tools & Equipment	42	34	8	8
18	Conduit pipe cutting and threading machines adjustable	Furniture & Fittings	1	1	0	0
19	Conduit pipe bending machine, suitable	Furniture & Fittings	1	1	0	0
20	Bar magnet	Tools & Equipment	1	2	0	0
21	Drill bit	Tools & Equipment	2	1	1	1
22	Horse shoe magnet	Tools & Equipment	2	2	0	0
23	Crimping tool	Tools & Equipment	2	0	2	2
24	Crimping tool for telephone/LAN cable	Tools & Equipment	2	2	0	0
25	Rubber matting	Trainees Tool Kit	4	0	4	4
26	Wiring board on stand	Furniture & Fittings	10	0	10	10
27	Fire extinguishers	Trainees Tool Kit	4	1	3	3
28	Set of Wall jumper octagonal	Trainees Tool Kit	8	4	4	4

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
29	Center punch	Tools & Equipment	4	8	0	0
30	Rule fourfold wood	Tools & Equipment	40	0	40	40
31	Bradawl	Trainees Tool Kit	40	0	40	40
32	Set of Rowel punch	Tools & Equipment	40	0	40	40
33	Wooden mallet	Trainees Tool Kit	40	0	40	40
34	Pliers side cutting insulated	Tools & Equipment	10	5	5	5
35	Pliers flat nose insulated	Tools & Equipment	10	5	5	5
36	Pliers round nose insulated	Tools & Equipment	10	5	5	5
37	Pliers long nose insulated	Tools & Equipment	10	10	0	0
38	Screw driver heavy duty	Tools & Equipment	4	2	2	2
39	Screw driver heavy duty	Tools & Equipment	10	2	8	8
40	Firmer chisel	Tools & Equipment	20	20	0	0
41	Firmer chisel	Tools & Equipment	20	20	0	0
42	Hammer Ball Peen	Tools & Equipment	10	10	0	0
43	Wire stripper	Trainees Tool Kit	10	4	6	6
44	Hammer Ball Peen	Tools & Equipment	10	1	9	9
45	Hammer cross Peen	Tools & Equipment	10	2	8	8
46	Rawal tool holder & Bit	Tools & Equipment	4	0	4	4
47	Set of Wall jumper octagonal	Trainees Tool Kit	8	2	6	6
48	Scriber	Trainees Tool Kit	4	4	0	0
49	File flat	Tools & Equipment	10	4	6	6
50	File flat round	Tools & Equipment	10	10	0	0
51	File round	Tools & Equipment	10	8	2	2
52	File triangular	Tools & Equipment	10	10	0	0
53	Spanner set of 6 18X18, 20X22, 21X23, 24 X27, 25X27, 30X32,	Tools & Equipment	4	34	0	0
54	Adjustable spanner	Furniture & Fittings	2	2	0	0
55	Foot print Grip	Tools & Equipment	4	0	4	4
56	Allen keys	Trainees Tool Kit	2	2	0	0
57	Spirit level	Trainees Tool Kit	2	2	0	0

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
58	Electric soldering iron	Trainees Tool Kit	4	2	2	2
59	Blow lamp	Tools & Equipment	4	2	2	2
60	Forge with hand blower	Trainees Tool Kit	2	0	2	2
61	Bench vice	Furniture & Fittings	10	5	5	5
62	Hand vice	Tools & Equipment	10	4	6	6
63	Rubber gloves	Trainees Tool Kit	4	4	0	0
64	Safety belt with provision for keeping tools	Tools & Equipment	20	0	20	20
65	Tower ladder on type wheels	Trainees Tool Kit	4	2	2	2
66	Portable extension ladder	Furniture & Fittings	2	1	1	1
67	Trowel	Trainees Tool Kit	4	0	4	4
68	All types C.F.L. lamp sets	Tools & Equipment	6	0	6	6
69	Multi meter	Tools & Equipment	8	2	6	6
70	Hot wire Ammeter	Tools & Equipment	2	1	1	1
71	Wheatstone Bridge	Trainees Tool Kit	2	2	0	0
72	Electrical power drilling machine	Tools & Equipment	2	1	1	1
73	Megger (Insulation tester)	Tools & Equipment	4	1	3	3
74	Voltmeter M.C.	Tools & Equipment	2	0	2	2
75	Voltmeter M.C/ Multi range	Tools & Equipment	2	0	2	2
76	Voltmeter M.C. Multi range	Tools & Equipment	2	0	2	2
77	Voltmeter centre zero	Tools & Equipment	2	0	2	2
78	Voltmeter M.I. multi- range	Tools & Equipment	4	0	4	4
79	Voltmeter M.I. multi- range	Tools & Equipment	2	0	2	2
80	Ammeter M.I.	Tools & Equipment	4	1	3	3
81	Ammeter M.I.	Tools & Equipment	4	3	1	1
82	Ammeter M.I	Tools & Equipment	2	0	2	2
83	Ammeter M.C. Centre zero	Tools & Equipment	2	0	2	2
84	Ammeter MC	Tools & Equipment	2	0	2	2
85	Field regulator	Trainees Tool Kit	2	0	2	2
86	Single phase K.W.H meter digital	Tools & Equipment	8	0	8	8

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
87	Single phase K.W.H meter analog	Tools & Equipment	8	0	8	8
88	3 Phase KW meter	Tools & Equipment	2	0	2	2
89	Watt meter Dynamo meter type	Tools & Equipment	2	1	1	1
90	Personal computer system with printer	Computer	2	1	1	1
91	LCD projector	Computer	2	0	2	2
92	Clamp on ammeter	Tools & Equipment	4	0	4	4
93	Three phase K.W.H meter analog	Tools & Equipment	8	0	8	8
94	Three phase K.W.H meter digital	Tools & Equipment	8	0	8	8
95	UPS 500VA with battery	Computer	2	0	2	2
96	D.C. compound motor	Tools & Equipment	2	1	1	1
97	D.C. shunt motor	Tools & Equipment	2	1	1	1
98	D. C. series motor with 2 point starter	Tools & Equipment	2	1	1	1
99	DC Power supply	Trainees Tool Kit	2	0	2	2
100	Capacitor motor	Tools & Equipment	2	1	1	1
101	Split phase motor	Tools & Equipment	2	1	1	1
102	Universal motor	Tools & Equipment	2	1	1	1
103	M.G. Set consisting of squirrel cage induction motor 5 H.P. 400 V cycle with directly coupled compound generator 3K.W. 250 V with built in panel board consisting of :	Furniture & Fittings	2	1	1	1
104	Squirrel cage induction motor	Tools & Equipment	2	1	1	1
105	Manual star Delta starter	Tools & Equipment	2	0	2	2

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
106	Semi-automatic star Delta starter	Tools & Equipment	2	0	2	2
107	Automatic star Delta starter	Tools & Equipment	2	0	2	2
108	Automatic Reverse Forward starter	Tools & Equipment	2	0	2	2
109	Single phasing preventer	Trainees Tool Kit	1	0	1	1
110	D.O.L starter	Tools & Equipment	2	1	1	1
111	Two point starter for DC series motor	Tools & Equipment	2	0	2	2
112	Soft starter 1ph	Tools & Equipment	2	1	1	1
113	Tachometer digital type	Tools & Equipment	2	1	1	1
114	Flux meter	Tools & Equipment	2	0	2	2
115	Alternator with 3 ph induction motor	Tools & Equipment	2	0	2	2
116	5 HP Slip ring induction motor with rotor resistance starter	Tools & Equipment	2	0	2	2
117	Lux meter	Tools & Equipment	2	1	1	1
118	Lead Acid battery 75Ah	Tools & Equipment	2	0	2	2
119	Battery Charger	Tools & Equipment	2	1	1	1
120	Solar street light lamp set	Tools & Equipment	8	0	8	8
121	Hydraulic crimping tool for UG cable crimping with bits	Tools & Equipment	2	0	2	2
122	Transformer single phase	Tools & Equipment	4	1	3	3
123	Transformer Three phase (oil cooled)	Tools & Equipment	4	1	3	3
124	Transformer oil testing kit	Tools & Equipment	2	1	1	1
125	Autotransformer	Tools & Equipment	2	0	2	2
126	Current transformer	Tools & Equipment	2	0	2	2
127	Potential transformer	Tools & Equipment	2	0	2	2
128	Miniature circuit breaker(MCB)	Trainees Tool Kit	4	2	2	2

SN	Tools and Equipment Name	Tools and Equipment category	Required Qty	Available Qty	Shortage	Qty. to be procured
129	Earth leakage circuit breaker (ELCB)	Trainees Tool Kit	4	0	4	4
130	Metal clad circuit breaker (MCCB)	Trainees Tool Kit	4	0	4	4
131	Instructors table (Junior Executive)	Furniture & Fittings	2	1	1	1
132	Instructors chair – Full Arm, Caned Back & Seat	Furniture & Fittings	4	1	3	3
133	Metal rack	Furniture & Fittings	8	1	7	7
134	Lockers with 16 drawers standard size with key	Furniture & Fittings	2	1	1	1
135	Steel almirah	Furniture & Fittings	4	1	3	3
136	White board	Furniture & Fittings	2	1	1	1
137	Computer table	Furniture & Fittings	2	1	1	1
138	Computer chair	Furniture & Fittings	2	1	1	1
139	Printer and computer table	Furniture & Fittings	1	1	0	0
140	Work bench	Furniture & Fittings	4	1	3	3
141	Almirah	Furniture & Fittings	4	0	4	4
142	Demonstration table	Furniture & Fittings	2	0	2	2
143	Blackboard with easel	Furniture & Fittings	1	0	1	1
144	Stools	Furniture & Fittings	20	0	20	20
145	Metal rack	Furniture & Fittings	4	0	4	4