

Table of Contents

A. Baseline Characteristics of Government ITIs	3
1. Current ITI management and IMC composition (if IMC is present)	4
2. List of courses offered- Trade and Unit details	5
3. Number of enrolled Trainees in the last three years	6
4. Number of graduates last year by courses.....	7
5. Number of instructors.....	8
6. Staff Detail- Administrative staff	10
7. Size and condition of classroom and workshop facilities including other amenities.	11
8. Availability of 3-phase power, backup (DG sets), and water supply.....	12
9. Detailed Equipment Inventory:.....	12
10. Internal Revenue Generated (IRG) in the last 3 years	13
11. Composition of Internal Complaint Committee (ICC)	13
B. Indicative Upgradation Requirements Identified by the State:	14
1. Civil Infrastructure Upgradation.....	14
2. Existing Trade to be upgraded and new trade to be introduced:	16
3. Indicative Manpower Requirement & Cost for Newly Proposed Trades.....	20
4. Indicative Annual Recurring Expenditure	22
5. Summary of Indicative Cost Estimates	23
Appendix-I	25

A. Baseline Characteristics of Government ITIs

Government Industrial Training Institute (ITI), Morigaon is a rural co-educational skill development institution located at Vill-Banpara, PO-Dandua, Morigaon district (PIN-782104), Assam. Established in 2005, the institute plays an important role in providing vocational training aligned with NCVT/SCVT norms and evolving industry requirements. The institute offers key engineering trades such as Mechanic Motor Vehicle (MMV), Electrician, Electronic Mechanic, and Mechanic Diesel, along with non-engineering trades including Computer Operator & Programming Assistant (COPA) and Dress Making. In addition, emerging technology-oriented trades under the SIMC framework, supported through the Centre of Excellence initiative in collaboration with Tata Technologies Ltd., include Basic Designer and Virtual Verifier (Mechanical), CNC Machining Technician, Industrial Robotics & Digital Manufacturing Technician, and Mechanic Electric Vehicle. Trades such as Manufacturing Process Control & Automation and Artisan using Advanced Tools are also planned for operationalization from the academic year 2026. With a current ITI grading of 7, ITI Morigaon is envisaged as an important spoke ITI under the proposed Hub-and-Spoke cluster framework. Under the PM-SETU scheme, the institute is targeted for modernization of infrastructure, upgradation of training equipment, strengthened industry partnerships, and improved placement-linked outcomes for trainees.

Institute Details

SN	Particulars	Detail
1.	Institute Name	Government Industrial Training Institute Morigaon (GR18000031) (<i>Spoke ITI</i>)
2.	Institute Location: (Rural/Urban)	Rural
3.	Is it Women ITI Only? (Yes / Co-ed)	Coed
4.	Pin Code	782104
5.	Email Id	itimorigaon@gmail.com
6.	Mobile No	9854120528
7.	District	Morigaon
8.	Complete address	Vill-Banpara PO-Dandua PS-Morigaon Pin-782104
9.	Latitude	26.255255
10.	Longitude	92.386444
11.	Year in operation	2005
12.	Current grading of ITI	7

1. Current ITI management and IMC composition (if IMC is present)**a. Details of Head of the ITI**

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

b. Availability of Institute Management Committee (IMC)

SN	Particulars	Available
a.	Institute Management Committee (IMC) (Yes/ No)	Yes
b.	If Yes, name of Industry Partner	Nikita Marketing PVT. LTD
c.	Date of Notification of the IMC	2009

c. IMC composition

SN	Name of Member	Designation in IMC (Chairman / Member Secretary/ Member)	Category / Representation (Industry / Govt / Principal / Faculty/Trainee)	Organization
1.	Mr. Ikranul Mazid	Chairman	Industry	Nikita Marketing Pvt Ltd.
2.	Mr. Krishna Bania	Member Secretary	Principal	ITI Morigaon
3.	DECT, Re- presentative	Member	DECT	Directorate of Employment and Craftsmen Training
4.	President, Laghu Udyug Bharati (NE)	Member	Industry	Laghu Udyug Bharati (NE)
5.	Sri Apurba Kr. Das	Member	Industry	MD Mercantile Corps (NE) Pvt. Ltd
6.	The General Manager, DICC, Morigaon	Member	Industry	District Industries and Commerce Centre, Morigaon
7.	District Employment Officer, Morigaon	Member	DECT	District Employment Exchange, Morigaon
8	Sr. Faculty ITI	Member		ITI Morigaon
9	Trainee union	Member	Trainee	ITI Morigaon

2. List of courses offered- Trade and Unit details

SN	Trade Name	Trade Type (Engineering / Non-Engineering Trades)	Trade affiliation (NCVT/ NIMC/ SCVT/ SIMC)	No. of Unit			
				Shift 1	Shift 2	Shift 3	Total
1.	Mechanic Motor Vehicle	Engineering	NCVT	1	-	-	1
2.	Mechanic Motor Vehicle	Engineering	SIMC	-	1	-	1
3.	Electrician	Engineering	NCVT	1	-	-	1
4.	Electrician	Engineering	SIMC	-	1	-	1
5.	Electronic Mechanic	Engineering	NCVT	1	-	-	1
6.	Electronic Mechanic	Engineering	NIMC	-	1	-	1
7.	Computer Operator & Programming Assistant	Non-Engineering	NCVT	1	-	-	1
8.	Computer Operator & Programming Assistant	Non-Engineering	NIMC	-	1	-	1
9.	Mechanic Diesel	Engineering	NIMC	1	-	-	1
10.	Mechanic Diesel	Engineering	SIMC	-	1	-	1
11.	Dress Making	Non-Engineering	NCVT	1	-	-	1
12.	Basic Designer and Virtual Verifier (Mechanical)	Engineering	SIMC	1	1	-	2
13.	CNC Machining Technician	Engineering	SIMC	1	1	-	2
14.	Industrial Robotics & Digital Manufacturing Technician	Engineering	SIMC	1	1	-	2
15.	Mechanic Electric Vehicle	Engineering	SIMC	1	1	-	2

SN	Trade Name	Trade Type (Engineering / Engineering	Trade affiliation	No. of Unit
16.	Manufacturing Process Control & Automation	Engineering	SIMC	Trades ready for operationalization from the academic year 2026 under the Centre of Excellence (CoE), established in collaboration with Tata Technologies Ltd.
17.	Artisan using Advanced Tools	Non- Engineering	SIMC	

* NIMC- NCVT under IMC, ** SIMC- SCVT under IMC

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 (NCVT /NIMC/ SCVT / SIMC)	Year (2022–23/ 2023–24/ 2024– 25)	Total Enrolled			By Category				
				Male	Female	Total	General	SC	ST	OBC	PwD (if any)
1.	Mechanic Motor Vehicle	NCVT	2024–25	24	0	24	9	0	8	7	-
2.	Mechanic Motor Vehicle	SIMC	2024–25	48	0	48	18	4	8	18	-
3.	Electrician	NCVT	2024–25	19	1	20	7	1	5	7	-
4.	Electrician	SIMC	2024–25	40	0	40	11	4	10	15	-
5.	Electronic Mechanic	NCVT	2024–25	44	3	47	12	6	9	20	-
6.	Electronic Mechanic	NIMC	2024–25	18	0	18	10	2	3	3	-
7.	Computer Operator & Programming Assistant	NCVT	2024–25	17	7	24	6	2	8	8	-
8.	Computer Operator & Programming Assistant	NIMC	2024–25	64	12	76	20	6	20	30	-
9.	Mechanic Diesel	NIMC	2024–25	46	1	47	11	4	7	25	-
10.	Mechanic Diesel	SIMC	2024–25	24	0	24	10	5	3	6	-
11.	Dress Making	NCVT	2024–25	3	21	24	7	2	6	9	-
12.	Basic Designer and Virtual Verifier	SIMC	2024–25	4	0	4	0	1	1	2	-
13.	Industrial Robotics & Digital Manufacturing	SIMC	2024–25	6	0	6	1	0	2	3	-
	Total			357	45	402	122	37	90	153	-

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 labour market outcomes.

SN	Trade Name	Course Type	Total Graduates (Last Year) by Gender			By Category					Employment Outcomes (Number / %)			
		(NCVT /NIMC/ SCVT / SIMC)	Male	Female	Total	Gen	SC	ST	OBC	PwD	Employed	Self- Employed	Higher Education	Unemploye d
1	Electrician	NCVT	15	1	16	4	4	6	2	-	6	4	2	3
2	Mechanic Motor Vehicle	NCVT	17	0	17	5	4	5	3	-	8	6	3	2
3	Electronics Mechanic	NCVT	17	0	17	5	3	2	7	-	-	-	-	-
4	Dress Making	NCVT	2	1	3	0	0	0	3	-	0	3	0	0
5	Computer Operator & Programming Assistant	NCVT	32	6	38	10	8	10	10	-	15	8	5	4
6	Mechanic Diesel	NCVT	24	23	47	17	4	8	18	-	15	5	2	2
7	Welder	NCVT	5	0	5	2	1	1	1	-	0	2	2	1
Total			112	31	143	43	24	32	44	-	44	28	14	12

Number of instructors

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

SN	Trade name	Trade affiliation (NCVT/ NIMC/ SCVT/ SIMC)	No. of units available	No. of position required	No. of sanctioned post (Regular)	Instructor in position						Vacancy (Regular)
						Regular	Officiating 1	Engaged under IMC	Total			
Male	Female	Total										
1.	Electrician	NCVT	2	2	1	1	-	-	1	-	1	-
2.	Mechanic Motor Vehicle	NCVT	2	2	1	1	-	-	1	-	1	-
3.	Electronics Mechanic	NCVT	2	2	1	1	-	1	1	1	2	-
4.	Dress Making	NCVT	1	1	1	1	-	-	-	1	1	-
5.	Computer Operator & Programming Assistant	NCVT	2	2	1	1	-	1	2	-	2	-
6.	Mechanic Diesel	NCVT	2	2	-	-	-	1	1	-	1	1
7.	Welder	NIMC	2	2	-	-	-	-	-	-	-	2
8.	Mechanic Motor Vehicle	SIMC	1	1	-	-	-	1	1	-	1	-
9.	Electrician	SIMC	1	1	-	-	-	1	1	-	1	-
10.	Computer Operator & Programming Assistant	NIMC	1	1	-	-	-	1	-	1	1	-
11.	Mechanic Diesel	SIMC	1	1	-	-	-	1	1	-	1	-
12.	Basic Designer	SIMC	2	2	-	-	1	0	1	-	1	1

¹ Engaged by Tata Technologies Ltd for 5 yrs.as per MoA with Govt. of Assam

SN	Trade name	Trade affiliation	No. of units	No. of position	No. of sanctioned post	Instructor in position						Vacancy (Regular)
						Regular	Officiating	Engaged	Total			
	and Virtual Verifier											
13.	Industrial Robotics & Digital Manufacturing	SIMC	2	2	-	-	1	0	1	-	1	1
14.	Basic Designer and Virtual Verifier (Mechanical)	SIMC	2	2	-	-	-	1	-	-	-	2
15.	CNC Machining Technician	SIMC	2	2	-	-	-	1	-	-	-	2
Total			25	25	5	5	2	9	11	3	14	9

<Please add row if required, depending on trades selected in Point 3 for Trade & Unit Details, available teaching staff is to be entered for their respective trades>

6. Staff Detail- Administrative staff

SN	Trade name	No. of position required	No. of sanctioned post	Available staff			Vacancy (Regular)
				Regular	Engaged under IMC	Total	
1.	Senior Assistant	1	1	1	-	1	-
2.	Junior Assistant	1	1	-	-	-	1
3.	Store- Keeper	1	1	-	-	-	1
4.	Grade-IV	2	2	2	-	2	-
5.	Sweeper	1	1	1	-	1	-
6.	Workshop Attendant	2	2	2	-	2	-
	Total	8	8	6	-	6	2

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

SN	Particulars	Available
1.	Total Plot Area (in Acres/ Bigha)	15.14 acres (46 Bigha)
2.	No. of RCC building available (Mark NA, if not available)	NA
3.	No. of Non-RCC Building available (Mark NA, if not available)	6 Nos.
4.	No. of Rooms available in the building	Classroom: 06 Nos. Workshop : 8Nos.
5.	Staff Quarter Available (Yes/No)	i. Principal: No (requirement 180 sqm) ii. Staff: No (requirement 90 sqm) iii. Grade IV Staff: Yes (60 sqm- renovation required)
6.	Hostel Available – Boys & Girls (Yes/No)	Yes (under construction) i. Boys- 1500 sqm ii. Girls- 1000 sqm
7.	Size of the Classroom	a. Classroom 1: 30 sqm b. Classroom 2: 30 sqm c. Classroom n: 30 Sqm Total Areas: 90 Sqm
8.	Size of the Workshop(Sqm)	i. Workshop 1: 80 sqm ii. Workshop 2: 80 sqm iii. Workshop 3: 80 sqm iv. Workshop 4: 70 sqm v. Workshop 5: 60 sqm vi. Workshop 6: 70 sqm vii. Workshop 7: 60 sqm viii. CoE Workshop : 826 sqm Total Workshop Area: 1326 Sqm
9.	Total building area (In square meter)	1500 Sqm (excluding CoE workshop)
10.	Boundary Wall available (Yes/No)	Yes
11.	Total Seat capacity (SCVT, NCVT and IMC trades)	432
12.	IT laboratory (Yes/ No)	Yes
13.	Drawing Hall(Yes/ No)	Yes
14.	Principal Room(Yes/ No)	Yes
15.	Staff Room(Yes/ No)	Yes

SN	Particulars	Available
16.	Administration Hall (Yes/ No)	Yes
17.	Placement/Counselling Room(Yes/ No)	Yes
18.	Reception cum Waiting Lobby (Yes/ No)	Yes
19.	Multipurpose Hall / Courtyard (Yes/ No)	Yes
20.	Library Reading Room (Yes/ No)	Not available (requirement 80 sqm room as per norms)
21.	Canteen (including kitchen & pantry) (Yes/ No)	Yes
22.	First Aid Room (Yes/ No)	Yes
23.	Storage room for raw material and for gases/oil drums etc.(Yes/ No)	Yes
24.	Separate Toilets (Yes/ No)	Male : Yes Female : Yes Divyang :Yes
25.	Women Facilitation & Counselling Desk(Yes/ No)	Not available (requirement 15 sqm room as per norms)
26.	Alumni & Placement Tracking Cell (Yes/ No)	Yes
27.	Security & Access Control Point(Yes/ No)	Not available (requirement 15 sqm room as per norms)
28.	Availability of Ramps and Infrastructure necessary for disabled persons (yes/no)	Yes
29.	Plot Entrance Gate (Yes/ No)	Yes
30.	Building Entrance Gate (Yes/ No)	Yes
31.	Vacant available land for new construction (Sqm)	5.26 acres (15 Bigha)
32.	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: 14 kW	
2	Backup Power (DG Set)	Yes	DG: 25 kVA	
3	Water Supply Facility	Yes	Source: normal boring	

9. Detailed Equipment Inventory:

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

Details of equipment inventory are 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	Role in ICC	Gender	Designation
1	Krishna Bania	Chairperson	M	Superintendent
2	Kabita saha	Member	F	Instructor
3	Debajit bhuyan	Member	M	Administrative Staff

a. ICC Functioning and Effectiveness (Workplace Safety Monitoring)

Year	Grievances Registered (No.)	Resolved (No.)	Pending (No.)	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 to enhance and modernize the existing infrastructure of the institute. The current built-up area of approximately 1,500 sqm requires refurbishment, repair, and improvement to align with the latest NCVT/NCVET standards, ensuring a safe, functional, and future-ready training environment. In addition, a Centre of Excellence (CoE) with a built-up area of 826 sqm has been newly established in collaboration with Tata Technologies Ltd., supporting the introduction of emerging Industry 4.0 aligned trades.

Further, while one residential quarter for Grade-IV staff is available, it requires repair and renovation. Additional residential quarters for the ITI Superintendent and staff are also proposed to strengthen institutional support infrastructure and improve on-campus staff availability for effective training delivery and governance. Hostel facilities for both boys and girls are also under construction, which will further enhance the institute's training ecosystem and support increased trainee participation, particularly from remote areas.

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 Academic Block	Classroom and Workshop (4 new trades), Library and Reading Room, Canteen (including Kitchen and Pantry), Women Facilitation and Counselling Desk, Security and Access Control Point and Other amenities etc.	600	Rs. 30,920 <i>(CPWD PAR 2025 -College)</i>	1.90
2	Electrical installation	In all newly constructed area	600	12.5% of total budget estimate	0.24
3	Parking area	For 15 Car and 300 bikes	600	Rs. 2,945 (CPWD PAR 2025 (item-6.2.3))	0.18
4	Quarter	Principal	180	Rs. 24,410 <i>(CPWD PAR 2025 - Hostel/Quarter)</i>	0.44
		Staff	90		0.22
	Electrical installation	In all Quarter	270	12.5% of total budget estimate	0.08
Total indicative cost (in Cr.)					3.06

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

Project	Details of required Rooms	Estimated Plinth Area (sqm)	Rate (Rs. /sqm)	indicative Amount (in Cr.)
Existing Academic & Administrative Block	i. Classroom and Workshop ii. Library and Reading Room iii. Separate Toilets (Male / Female) iv. Ramps and infrastructure for person with disabilities	1500	40% of equivalent new construction cost (Rs. 30,920) (industry standard)	1.86
Quarter	Grade IV Staff	60	40% of equivalent new construction cost (Rs. 24,410) (industry standard)	0.06
Total indicative cost (in Cr.)				1.92

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)	6.00
2	Fixed workshop fittings & partitions	2.00
3	CCTV surveillance & access control	0.30
4	Campus Wi-Fi & IT networking	0.25
5	Signage, branding & way-finding	0.20
6	Landscaping & green campus development	0.70
Total indicative cost (in Cr.)		9.45

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/NCVT 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:

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

a. Upgradation of CTS courses as per industry requirements

i. Details of Existing trades need to be upgraded

SN	Trade Name	Trade Type (Engineering / Non- Engineering Trades)	No. of Unit				Upgrade required (Yes/No)	Upgrade required (in Cr.)
			Shift 1	Shift 2	Shift 3	Total		
1	Mechanic Motor Vehicle	Engineering	1	1	-	2	Yes	0.65
2	Electrician	Engineering	1	1	-	2	Yes	0.40
3	Electronic Mechanic	Engineering	1	1	-	2	Yes	0.40
4	Computer Operator & Programming Assistant	Non-Engineering	1	1	-	2	Yes	0.25
5	Mechanic Diesel	Engineering	1	1	-	2	Yes	0.45
6	Dress Making	Non-Engineering	1	-	-	1	Yes	0.20
7	Basic Designer and Virtual Verifier *	Engineering	1	1	-	2	No*	0
8	Industrial Robotics & Digital Manufacturing *	Engineering	1	1	-	2	No*	0
10	CNC Machining Technician	Engineering	1	1	-	2	Only Unit wise hand	0.20

11	Mechanic Electric Vehicle	Engineering	1	1	-	2	tools required	0.20
12	Manufacturing Process Control & Automation**	Engineering	1	1	-	2		0.20
13	Artisan using Advanced Tools**	Non-Engineering	1	1	-	2		0.20
Total amount (in Cr.)								3.15

* Operationalize from 2025 ** will be operationalized from 2026

b. 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 as per their expertise, operational requirements, and sectoral focus.

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:

i. 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. The Industry Partner may further refine and operationalize these trades in accordance with workforce requirements

and sectoral focus.

As per the PM-SETU framework, a minimum of eight trades are to be upgraded in each Spoke ITI. However, Government ITI Morigaon currently offers six existing trades. Accordingly, it is proposed to introduce two additional new trades to address this shortfall and ensure compliance with the minimum trade upgradation requirement under the scheme. Further, as per PM-SETU guidelines, each Spoke ITI is also required to introduce a minimum of two new trades. Therefore, a total of four new trades are proposed to be introduced at Government ITI Morigaon to meet both the trade upgradation and new trade introduction requirements.

Indicative List of Long-Term Trades

A. High-End Trades (Advanced Infrastructure Intensive)

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

B. Medium-End Trades (Moderate Equipment and Technology 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. Low-End Trades (Lower Capital Requirement, Mostly Digital/Simulation Based)

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

ii. 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, this includes an average of 2 short-term courses per 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 Technicia |
| 12. Process Control & Automation | |

3. Indicative Manpower Requirement & Cost for Newly Proposed Trades

The indicative manpower requirement has been projected to address existing instructor vacancies in key trades and to support the effective rollout of newly proposed trades under the PM-SETU upgradation framework. In addition, dedicated human resources are envisaged for strengthening placement and career support through the engagement of a Placement-cum-Counsellor Officer (TCPEC), as well as for enhancing international mobility opportunities through a Foreign Language Instructor. Accordingly, the manpower cost estimates have been calculated with a provision of 10% annual increment over a five-year period.

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)	3	18	21	25000	63.00	69.30	76.23	83.85	92.24	384.62	Existing Vacancy in IMC: Mechanic Diesel and Welder (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: Four new trades (8) (2 trade for Spoke and 2 trades against upgradation of existing trades)
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		1	1	40000	4.80	5.28	5.81	6.39	7.03	29.31	shall be responsible for strengthening trainee career

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		
	Counsellor Officer - TCPEC											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		3	21	24	-	82.20	90.42	99.46	109.41	120.35	501.84	

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.

S N	Particulars	Amount for 5 Years (in Cr.)
1	Consumables / Raw Materials for Training	1.61

	(@Rs. 400 per month per trainee for engineering trade and (@Rs. 300 per month per trainee for engineering trade)	
2	Training of Trainers (ToT) -31 instructors @ Rs. 20,000, 5 times in the project period-5 yrs.	0.31
3	Exposure Visit for Instructor/ Supervisor (31 instructors @Rs. 40,000, 5 times in the project period-5 yrs.	0.62
4	Field visit for trainees (within Assam @ 750 per trainee for 692 estimated trainees)	0.26
5	OJT for trainee (@400 per trainee for 692 estimated trainees)	0.14
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 per year	0.23
Total Amount (in Cr.)		4.67

5. Summary of Indicative Cost Estimates

The indicative cost estimates for upgradation of Government ITI Morigaon under the PM-SETU scheme have been prepared to cover key components such as civil infrastructure development, repair and renovation works, modernization of training facilities, upgradation of existing trades, introduction of new and emerging trades, and placement-linked short-term courses. The estimates also include manpower support and recurring operational expenditure for effective implementation.

SN	Component	Estimated Cost (in Cr.)
1	Civil Part- New Construction Projects	3.06
2	Civil Part- Repair, Renovation & Upgradation Projects	1.92
3	ITI Modernization & Supporting Works <i>(Furniture for classrooms, labs & offices, CCTV, Wi-Fi & IT networking, Signage, branding & way-finding Landscaping & green campus development)</i>	9.45
4	Estimated cost for upgradation of existing trade	3.15
5	Proposed New trade to be introduced- two trades	6
6	Short Term Courses	0.16
7	Manpower Cost	5.02
8	Recurring Expenditure <i>(Training materials, ToT, Exposure Visit, Field visit, OJT, AR VR Lab, Foreign Language Lab, Electricity, Water, Internet, Hostel Contingency etc.)</i>	4.67
Total indicative Amount (in Cr.)		33.43
Contingency (10%)		3.34
Grand Total Amount (in Cr.)		36.77

5.1 Year-wise Indicative Expenditure Plan (Five Years)

The year-wise indicative expenditure plan for Government ITI Morigaon 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.

SN	Component	Yr. 1	Yr. 2	Yr. 3	Yr. 4	Yr. 5	Total Cost for 5 Yrs. (in Cr.)
1	Civil Part- New Construction Projects(30:60:10)	0.92	1.84	0.31	-	-	3.06
2	Civil Part- Repair, Renovation & Upgradation Projects(40:60)	0.77	1.15	-	-	-	1.92
3	ITI Modernization & Supporting Works(40:60)	3.78	5.67	-	-	-	9.45
4	Estimated cost for upgradation of existing trade(50:50)	1.58	1.58	-	-	-	3.15
5	Proposed New trade to be introduced- two trades(50:50)	-	-	3.00	3.00	-	6.00
6	Short Term Courses (50:50)	0.08	0.08	-	-	-	0.16
7	Manpower Cost	0.82	0.90	0.99	1.09	1.20	5.02
8	Recurring Expenditure-(20%X5)	0.93	0.93	0.93	0.93	0.93	4.67
Total indicative Amount (in Cr.)		8.87	12.15	5.23	5.03	2.14	33.43
Contingency (10%)							3.34
Grand Total Amount (in Cr.)							36.77

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 & Programming Assistant

SN	Category of T&E	Name of the Tools and Equipment	Quantity required (No)	Qty Available	Functional (Yes/No)
1	Trainees Tools/ Equipment	Desktop Computer	24	24	YES
2	Trainees Tools/ Equipment	Laptop	1	1	YES
3	Trainees Tools/ Equipment	Wi-Fi Router	1	1	YES
4	Trainees Tools/ Equipment	Switch	1	1	YES
5	Trainees Tools/ Equipment	Laser Printer	1	1	YES
6	Trainees Tools/ Equipment	Optical Scanner	1	1	YES
7	Trainees Tools/ Equipment	Digital Web Cam	4	1	YES
8	Trainees Tools/ Equipment	LCD Projector	1	1	YES
9	Trainees Tools/ Equipment	Projector Screen	1	1	YES
10	Trainees Tools/ Equipment	Network Rack	1	1	YES
11	Trainees Tools/ Equipment	MS Office	25	25	YES
12	Trainees Tools/ Equipment	Tally	13	13	YES
13	Trainees Tools/ Equipment	Vacuum cleaner	1	1	YES
14	Trainees Tools/ Equipment	Chair and table for the instructor	4	2	YES
15	Trainees Tools/ Equipment	Dual Desk or Chair and Tables for Trainees	12	12	YES
16	Trainees Tools/ Equipment	Computer table	12	12	YES
17	Trainees Tools/ Equipment	Operators chair	24	24	YES
18	Trainees Tools/ Equipment	Printer table	3	2	YES
19	Trainees Tools/ Equipment	Storage cabinet	1	1	YES
20	Trainees Tools/ Equipment	White Board	1	1	YES
21	Trainees Tools/ Equipment	Steel Almirah	1	1	YES
22	Trainees Tools/ Equipment	Fire Extinguisher CO2	2	2	YES
23	Software	Fire Buckets	2	2	YES
24	Software	Full Scape Paper	2	2	YES
25	Software	RJ 45 connector	200	25	YES
26	Software	Cable	10	10	YES
27	Software	Stapler	2	2	YES
28	Software	Stapler	1	1	YES
29	Software	Pen drive	2	1	YES
30	Software	Wall Clock	1	1	YES
31	Software	Patch Panel	2	1	YES

2. Dress making:

SN	Category of T&E	Name of the Tools and Equipment	Quantity required	Qty Available	Functional (Yes/No)
1	Trainees Tool Kit	Thread Cutter	21	8	No
2	Trainees Tool Kit	Electric Automatic steam press	6	2	No
3	Trainees Tool Kit	Pigeon hole Almirah	2	1	No
4	Trainees Tool Kit	Wall Clock	3	1	No
5	Trainees Tool Kit	Computer system	6	1	No
6	Trainees Tool Kit	Measuring Tape	21	5	Yes
7	Trainees Tool Kit	Seam Ripper	21	21	Yes
8	Trainees Tool Kit	Thimble	21	16	Yes
9	Drafting/Cutting /Sewing Room Tools & Equipment	Tailor's Card Scale Triangular	21	10	Yes
10	Drafting/Cutting /Sewing Room Tools & Equipment	Tailors Square	21	16	Yes
11	Drafting/Cutting /Sewing Room Tools & Equipment	French Curve	21	21	Yes
12	Drafting/Cutting /Sewing Room Tools & Equipment	Scissors	21	8	Yes
13	Drafting/Cutting /Sewing Room Tools & Equipment	Pinking Shears	6	2	Yes
14	Drafting/Cutting /Sewing Room Tools & Equipment	Pressing Table	6	1	Yes
15	Drafting/Cutting /Sewing Room Tools & Equipment	Waste Bin Big / Small	12	1 (Small)	Yes
16	Drafting/Cutting /Sewing Room Tools & Equipment	Pattern Punch	6	2	Yes
17	Drafting/Cutting /Sewing Room Tools & Equipment	Pattern Notcher	6	2	Yes
18	Drafting/Cutting /Sewing Room Tools & Equipment	Sewing Machine -	20	20	Yes
19	Drafting/Cutting /Sewing Room Tools & Equipment	Zigzag Multi-Purpose Machine	1	1	Yes
20	Drafting/Cutting /Sewing Room Tools & Equipment	Button Hole machine	1	1	Yes
21	Drafting/Cutting /Sewing Room Tools & Equipment	Chairs with low back rest or stools for the machines	20	20	Yes
22	Drafting/Cutting /Sewing Room Tools & Equipment	Instructor Table	1	1	Yes
23	Drafting/Cutting /Sewing Room Tools & Equipment	Instructor Chair	2	1	Yes
24	Drafting/Cutting /Sewing Room Tools & Equipment	Steel Almirah	2	2	Yes
25	Drafting/Cutting /Sewing Room Tools & Equipment	Dummy Lady, Men, Kid	2	2	Yes
26	Drafting/Cutting /Sewing Room Tools & Equipment	Faculty Table & Chair set	1	1	Yes
27	Drafting/Cutting /Sewing Room Tools & Equipment	Computer set with UPS & multimedia	1	1	Yes

SN	Category of T&E	Name of the Tools and Equipment	Quantity required	Qty Available	Functional (Yes/No)
		projector			

3. Electrician

SN	Category of T&E	Name of the Tools and Equipment	Quantity required (No)	Qty Available	Functional (Yes/No)
1	Trainees Tool Kit	Screwdriver Insulated	21	16	Yes
2	Trainees Tool Kit	Screwdriver Insulated	21	16	Yes
3	Trainees Tool Kit	Electrician screwdriver thin stem insulated handle	21	16	Yes
4	Trainees Tool Kit	Electrician Screwdriver thin stem insulated handle	21	16	Yes
5	Trainees Tool Kit	Hammer, cross peen with handle	21	12	Yes
6	Trainees Tool Kit	Steel Rule Graduated both in Metric and English Unit	21	6	Yes
7	Trainees Tool Kit	Combination Plier Insulated	21	5	Yes
8	Trainees Tool Kit	Heavy Duty Screwdriver insulated	21	4	Yes
9	Trainees Tool Kit	Punch Centre	21	4	Yes
10	Trainees Tool Kit	Knife Double Bladed Electrician	21	4	Yes
11	Trainees Tool Kit	Neon Tester	21	4	Yes
12	Shop Tools & Equipment	Hammer, ball peen With handle	4	4	Yes
13	Shop Tools & Equipment	Pincer	4	4	Yes
14	Shop Tools & Equipment	Wire Cutter and Stripper	4	4	Yes
15	Shop Tools & Equipment	Mallet hard wood	4	4	Yes
16	Shop Tools & Equipment	Hammer Extractor type	4	4	Yes
17	Shop Tools & Equipment	Try Square	4	4	Yes
18	Shop Tools & Equipment	Drill hand brace	4	4	Yes
19	Shop Tools & Equipment	File flat	8	4	Yes

SN	Category of T&E	Name of the Tools and Equipment	Quantity required (No)	Qty Available	Functional (Yes/No)
20	Shop Tools & Equipment	File half round	4	4	Yes
21	Shop Tools & Equipment	File round	4	4	Yes
22	Shop Tools & Equipment	File flat rough	4	4	Yes
23	Shop Tools & Equipment	File Rasp, half round	4	4	Yes
24	Shop Tools & Equipment	De soldering Gun	4	4	Yes
25	Shop Tools & Equipment	Hand Vice	4	4	Yes
26	Shop Tools & Equipment	Table Vice	8	4	Yes
27	Shop Tools & Equipment	Series Test Lamp	4	4	Yes
28	Shop Tools & Equipment	Fuses	4	4	Yes
29	Shop Tools & Equipment	Digital Multi Meter	12	4	Yes
30	Shop Floor Furniture And Materials	Working Bench	4	4	Yes
31	Shop Floor Furniture And Materials	Metal Rack	4	4	Yes
32	Shop Tools & Equipment	A.C. Voltmeter M.I. analog, portable box type housed in Bakelite case	3	3	Yes
33	Shop Machinery	Single phase Transformer, core type, air cooled	3	3	Yes
34	Trainees Tool Kit	Measuring Steel Tape	21	2	Yes
35	Shop Tools & Equipment	C- Clamp	2	2	Yes
36	Shop Tools & Equipment	Spanner Adjustable drop forged, SS	2	2	Yes
37	Shop Tools & Equipment	Chisel Cold	2	2	Yes
38	Shop Tools & Equipment	Chisel firmer with wooden Handle	2	2	Yes
39	Shop Tools & Equipment	Bradawl	2	2	Yes
40	Shop Tools & Equipment	Pipe vice Cast Iron with hardened jaw open type	2	2	Yes
41	Shop Tools & Equipment	Crimping Tool	2	2	Yes
42	Shop Tools & Equipment	Crimping Tool	2	2	Yes

SN	Category of T&E	Name of the Tools and Equipment	Quantity required (No)	Qty Available	Functional (Yes/No)
43	Shop Tools & Equipment	Hacksaw frame	2	2	Yes
44	Shop Tools & Equipment	Outside Calliper	2	2	Yes
45	Shop Tools & Equipment	Inside Calliper	2	2	Yes
46	Shop Tools & Equipment	Divider	2	2	Yes
47	Shop Tools & Equipment	Pliers long nose insulated	4	2	Yes
48	Shop Tools & Equipment	Pliers flat nose insulated	4	2	Yes
49	Shop Tools & Equipment	Pliers round nose insulated	4	2	Yes
50	Shop Tools & Equipment	Snip Straight and Bent heavy duty	2	2	Yes
51	Shop Tools & Equipment	Drill S.S. Twist block	4	2	Yes
52	Shop Tools & Equipment	Plane cutters	2	2	Yes
53	Shop Tools & Equipment	Smoothing cutters	2	2	Yes
54	Shop Tools & Equipment	Copper bit soldering iron.	2	2	Yes
55	Shop Tools & Equipment	Oil Can	2	2	Yes
56	Shop Tools & Equipment	Contactors & auxiliary contacts	2	2	Yes
57	Shop Tools & Equipment	Contactors & auxiliary contacts.	2	2	Yes
58	Shop Tools & Equipment	Pin Type, shackle type, egg type & suspension type insulators including hardware fitting	2	2	Yes
59	Shop Tools & Equipment	Hand Drill Machine	2	2	Yes
60	Shop Tools & Equipment	Miniature Breaker	2	2	Yes
61	Shop Tools & Equipment	Capacitors	2	2	Yes
62	Shop Tools & Equipment	Plug socket Piano Switch Lamp Holder	2	2	Yes
63	Shop Tools & Equipment	Bus bar with brackets	3	2	Yes
64	Shop Tools & Equipment	Ohm Meter; Series Type & Shunt Type, portable box type	2	2	Yes
65	Shop Tools & Equipment	Milli Voltmeter centre zero analog, portable box type housed in Bakelite case	2	2	Yes

SN	Category of T&E	Name of the Tools and Equipment	Quantity required (No)	Qty Available	Functional (Yes/No)
66	Shop Tools & Equipment	Ammeter MC analog, portable box type housed in Bakelite case	2	2	Yes
67	Shop Tools & Equipment	AC Ammeter MI, analog, portable box type housed in Bakelite case	2	2	Yes
68	Shop Tools & Equipment	A.C. Energy Meter	2	2	Yes
69	Shop Tools & Equipment	A.C. Energy Meter	2	2	Yes
70	Shop Tools & Equipment	Tong Tester / Clamp Meter	2	2	Yes
71	Shop Tools & Equipment	Megger	2	2	Yes
72	Shop Tools & Equipment	Single Phase Variable Auto Transformer	2	2	Yes
73	Shop Tools & Equipment	Phase Sequence Indicator	2	2	Yes
74	Shop Tools & Equipment	Soldering Iron	2	2	Yes
75	Shop Tools & Equipment	Temperature controlled Soldering Iron	2	2	Yes
76	Shop Tools & Equipment	DC Power Supply	2	2	Yes
77	Shop Tools & Equipment	Current Transformer	2	2	Yes
78	Shop Tools & Equipment	Potential Transformer	2	2	Yes
79	Shop Machinery	Three phase transformer, shell type oil cooled with Delta/ Star	2	2	Yes
80	Shop Floor Furniture And Materials	Instructor's chair	2	2	Yes
81	Shop Floor Furniture And Materials	Fire Extinguisher CO2	2	2	Yes
82	Shop Floor Furniture And Materials	Fire Buckets	2	2	Yes
83	Shop Tools & Equipment	Blow lamp brass	1	1	Yes
84	Shop Tools & Equipment	Allen Key alloy steel	1	1	Yes
85	Shop Tools & Equipment	Grease Gun	1	1	Yes
86	Shop Tools & Equipment	Pully Puller with 3 legs	1	1	Yes
87	Shop Tools & Equipment	Bearing Puller (inside and outside)	1	1	Yes

SN	Category of T&E	Name of the Tools and Equipment	Quantity required (No)	Qty Available	Functional (Yes/No)
88	Shop Tools & Equipment	Gauge, wire imperial stainlees steel marked in SWG & mm	4	1	Yes
89	Shop Tools & Equipment	Rotary Switch	2	1	Yes
90	Shop Tools & Equipment	Relay-Cut out Relays	2	1	Yes
91	Shop Tools & Equipment	Hydrometer	2	1	Yes
92	Shop Tools & Equipment	Portable Electric Drill Machine	1	1	Yes
93	Shop Tools & Equipment	Out Side Micrometer	2	1	Yes
94	Shop Tools & Equipment	Earth Plate	1	1	Yes
95	Shop Tools & Equipment	Earth Electrode	1	1	Yes
96	Shop Tools & Equipment	MCCB	1	1	Yes
97	Shop Tools & Equipment	ELCB and RCCB	1	1	Yes
98	Shop Tools & Equipment	Rheostat (Sliding type)	1	1	Yes
99	Shop Tools & Equipment	Various Lamps	1	1	Yes
100	Shop Tools & Equipment	RCC Pole with accessories (MS angle iron, 'C' clamp, stay insulator etc.) and materials	1	1	Yes
101	Shop Tools & Equipment	Digital Wattmeter	2	1	Yes
102	Shop Tools & Equipment	Frequency Meter	2	1	Yes
103	Shop Tools & Equipment	Tachometer	1	1	Yes
104	Shop Tools & Equipment	Tachometer	1	1	Yes
105	Shop Tools & Equipment	3- point D.C. Starter	1	1	Yes
106	Shop Tools & Equipment	4- point D.C. Starter	1	1	Yes
107	Shop Tools & Equipment	Wheat Stone Bridge with galvanometer and battery	2	1	Yes

SN	Category of T&E	Name of the Tools and Equipment	Quantity required (No)	Qty Available	Functional (Yes/No)
108	Shop Tools & Equipment	AC Starters: - a. Resistance type starter b. Direct online Starter c. Star Delta Starter- Manual d. Star Delta Starter – Semi automatic e. Star Delta Starter – Fully automatic f. Star Delta Starter - Soft starter g. Auto Transformer type	1	1	Yes
109	Shop Tools & Equipment	Oscilloscope Dual Trace	1	1	Yes
110	Shop Tools & Equipment	Function Generator	1	1	Yes
111	Shop Tools & Equipment	Electric Induction plate	1	1	Yes
112	Shop Tools & Equipment	Electric Kettle	1	1	Yes
113	Shop Tools & Equipment	Electric Iron	1	1	Yes
114	Shop Tools & Equipment	Immersion Heater	1	1	Yes
115	Shop Tools & Equipment	A.C. Ceiling Fan and AC Table Fan	1	1	Yes
116	Shop Tools & Equipment	Motor Pump set	1	1	Yes
117	Shop Tools & Equipment	Oil Testing Kit	1	1	Yes
118	Shop Tools & Equipment	Voltage Stabilizer	1	1	Yes
119	Shop Tools & Equipment	Battery Charger	1	1	Yes
120	Shop Machinery	D.C. Shunt Generator with control panel	1	1	Yes
121	Shop Machinery	Motor-Generator (AC to DC)	1	1	Yes
122	Shop Machinery	D.C. Compound Generator with control panel including fitted rheostat, voltmeter, ammeter and breaker	1	1	Yes
123	Shop Machinery	DC Series Motor coupled with spring balance load	1	1	Yes
124	Shop Machinery	DC Shunt Motor	1	1	Yes
125	Shop Machinery	DC compound Motor with starter and switch	1	1	Yes

SN	Category of T&E	Name of the Tools and Equipment	Quantity required (No)	Qty Available	Functional (Yes/No)
126	Shop Machinery	Motor Generator(DC to AC) set consisting of - Shunt Motor with starting compensator and switch directly coupled to AC generator with exciter and switch board mounted with regulator, breaker, ammeter, voltmeter frequency meter, knife blade switch and fuses etc. Set complete with cast iron bed plate, fixing bolts, foundation bolts and flexible coupling.	1	1	Yes
127	Shop Machinery	AC Squirrel Cage Motor with star delta starter and triple pole iron clad switch fuse with Mechanical Load.	1	1	Yes
128	Shop Machinery	AC phase-wound slip ring Motor with starter switch	1	1	Yes
129	Shop Machinery	Universal Motor with starter/switch	1	1	Yes
130	Shop Machinery	Diesel Generator Set with changeover switch, over current breaker and water/ air-cooled with armature, star-delta connections AC 3 phase	1	1	Yes
131	Shop Machinery	Used DC Generators-series, shunt and compound type for overhauling practice	1	1	Yes
132	Shop Machinery	A.C. Series type Motor	1	1	Yes
133	Shop Machinery	Single Phase Capacitor Motor with starter switch	1	1	Yes
134	Shop Machinery	Shaded Pole Motor	1	1	Yes
135	Shop Floor Furniture and Materials	Wiring Board	1	1	Yes
136	Shop Floor Furniture and Materials	Instructor's table	1	1	Yes
137	Shop Floor Furniture and Materials	Lockers with drawers	1	1	Yes
138	Shop Floor Furniture and Materials	Almirah	1	1	Yes
139	Shop Floor Furniture and Materials	Black board/white board	1	1	Yes

4. Electronics Mechanic

SN	Category of T&E	Name of the Tools and Equipment	Quantity required (No)	Qty Available	Functional (Yes/No)
1	Trainees Tool Kit	Connecting screwdriver	12	12	
2	Trainees Tool Kit	Neon tester 500 V.	8	12	
3	Trainees Tool Kit	Screw driver set	12	12	
4	Trainees Tool Kit	Soldering iron	12	12	
5	Trainees Tool Kit	Tweezers	12	12	
6	Trainees Tool Kit	Insulated side cutting pliers	10	10	
7	Trainees Tool Kit	Insulated combination pliers	8	8	
8	Trainees Tool Kit	Long nose pliers	8	8	
9	Trainees Tool Kit	Electrician knife	8	8	
10	Shop Tools, Instruments	Continuity tester	6	6	
11	Equipment	Digital and Analog Bread Board Trainer	6	6	
12	SHOP TOOLS, INSTRUMENTS	Steel rule graduated both in Metric and English Unit	4	4	
13	SHOP TOOLS, INSTRUMENTS	Plier - Flat Nose	4	4	
14	Equipment	Digital IC Trainer	4	4	
15	TRAINEES TOOL KIT	Digital Multimeter	12	2	
16	SHOP TOOLS, INSTRUMENTS	Precision set of screw drivers	2	2	
17	SHOP TOOLS, INSTRUMENTS	File flat bastard	2	2	
18	SHOP TOOLS, INSTRUMENTS	File flat second cut	2	2	
19	SHOP TOOLS, INSTRUMENTS	File flat smooth	2	2	
20	SHOP TOOLS, INSTRUMENTS	Hacksaw frame adjustable	2	2	
21	Equipment	DC Regulated Variable Programmable DC Power Supply	2	2	
22	Equipment	CRO Dual Trace	2	2	
23	Equipment	Signal Generator with Digital Display for Frequency Amplitude	2	2	

SN	Category of T&E	Name of the Tools and Equipment	Quantity required (No)	Qty Available	Functional (Yes/No)
24	Equipment	Function generator (DDS Technology (Sine, Square, Triangle, Ramp, Pulse, Serial Data, TTL and Modulation.))	2	2	
25	Equipment	Milli Ammeter (AC)	2	2	
26	Equipment	Milli Ammeter (DC)	2	2	
27	Equipment	Rheostats various values and ratings	2	2	
28	Equipment	AM/FM Commercial radio receivers	2	2	
29	Shop Floor Furniture and Materials	Instructor's chair	2	2	
30	Shop Floor Furniture and Materials	Lockers with 16 drawers standard size	2	2	
31	Shop Floor Furniture and Materials	Steel Almirah	2	2	
32	Shop Floor Furniture and Materials	Black board/white board	1	2	
33	Shop Floor Furniture and Materials	Fire Buckets	2	2	
34	Shop Tools, Instruments	Tools makers vice	1	1	
35	Shop Tools, Instruments	Tools maker vice	1	1	
36	Shop Tools, Instruments	Hammer ball pen	1	1	
37	Shop Tools, Instruments	Allen key set (Hexagonal -set of 9)	1	1	
38	Shop Tools, Instruments	Tubular box spanner	1	1	
39	Shop Tools, Instruments	Chisel - Cold - Flat	1	1	
40	Shop Tools, Instruments	Handsaw 450mm	1	1	
41	Shop Tools, Instruments	First aid kit	1	1	
42	Shop Tools, Instruments	Bench Vice	1	1	
43	Shop Tools, Instruments	Bench Vice	1	1	
44	Shop Tools, Instruments	Bench Vice	1	1	

SN	Category of T&E	Name of the Tools and Equipment	Quantity required (No)	Qty Available	Functional (Yes/No)
45	Equipment	Dual DC regulated power supply	4	1	
46	Equipment	LCR meter (Digital) Handheld	1	1	
47	Equipment	Battery Charger	1	1	
48	Equipment	Digital IC Tester	1	1	
49	Equipment	DSO (colour)	1	1	
50	Shop Floor Furniture and Materials	Instructor's table	1	1	
51	Shop Floor Furniture and Materials	Fire Extinguisher	2	1	

5. Mechanic Diesel

S N	Category of T&E	Name of the Tools and Equipment	Quantity required (No)	Qty Available	Functional (Yes/No)
1	Trainees Tool Kit	Spanner D.E. set of 12 pieces	7	23	Yes
2	Trainees Tool Kit	Spanner, ring set of 12	7	23	Yes
3	Tools & Equipment	Spanner D.E. set of 12 pieces	4	23	Yes
4	Tools & Equipment	Spanner, ring set of 12 metric sizes	4	23	Yes
5	Tools & Equipment	Outside micrometer (Size 50-75mm)	1	1	Yes
6	Tools & Equipment	Outside micrometer (Size 0-25mm)	2	1	Yes
7	Class Room Furniture For Trade Theory	Students chairs with writing pads	24	15	Yes
8	Trainees Tool Kit	Hands file for Second cut flat	7	7	Yes
9	Trainees Tool Kit	Screw driver Blade	7	3	Yes
10	Trainees Tool Kit	Screw driver Blade	7	3	Yes
11	Tools & Equipment	File, triangular , second cut	4	3	Yes

S N	Category of T&E	Name of the Tools and Equipment	Quantit y required (No)	Qnty Availabl e	Functiona l (Yes/No)
12	Trainees Tool Kit	Center Punch.	7	2	Yes
13	Tools & Equipment	Cleaning tray	4	2	Yes
14	Tools & Equipment	Feeler gauge 20 blades (metric)	4	2	Yes
15	Tools & Equipment	File flat , bastard	4	2	Yes
16	Tools & Equipment	Work bench	4	2	Yes
17	Trainees Tool Kit	Allen Key set of 12 pieces	7	1	Yes
18	Trainees Tool Kit	Calliper inside with spring	7	1	Yes
19	Trainees Tool Kit	Callipers outside with spring	7	1	Yes
20	Trainees Tool Kit	Dividers with spring	7	1	Yes
21	Trainees Tool Kit	Electrician Screw Driver	7	1	Yes
22	Trainees Tool Kit	Hammer ball peen with handle	7	1	Yes
23	Trainees Tool Kit	Philips Screw Driver set of 5 pieces	7	1	Yes
24	Trainees Tool Kit	Pliers combination	7	1	Yes
25	Trainees Tool Kit	Scriber	7	1	Yes
26	Trainees Tool Kit	Steel rule	7	1	Yes
27	Trainees Tool Kit	Steel tool box with lock and key (folding type)	7	1	Yes
28	Tools & Equipment	Blow Lamp	2	1	
29	Tools & Equipment	Calliper inside with Spring	4	1	Yes
30	Tools & Equipment	Callipers outside with spring	4	1	Yes
31	Tools & Equipment	Dividers with Spring	4	1	Yes
32	Tools & Equipment	File, half round ,second cut	4	1	Yes
33	Tools & Equipment	File, Square second cut	4	1	Yes
34	Tools & Equipment	Flat File , second cut	4	1	

S N	Category of T&E	Name of the Tools and Equipment	Quantit y required (No)	Qty Availabl e	Functiona l (Yes/No)
35	Tools & Equipment	Flat File , bastard	4	1	
36	Tools & Equipment	Granite surface plate with stand and cover	1	1	
37	Tools & Equipment	Hacksaw frame	1	1	Yes
38	Tools & Equipment	Hammer Ball Peen	4	1	
39	Tools & Equipment	Hammer Mallet	4	1	Yes
40	Tools & Equipment	Hammer Plastic	4	1	Yes
41	Tools & Equipment	Hand vice	2	1	Yes
42	Tools & Equipment	Insulated Screw driver	4	1	
43	Tools & Equipment	Insulated Screw driver	4	1	
44	Tools & Equipment	Marking out table	1	1	Yes
45	Tools & Equipment	Oil can	4	1	Yes
46	Tools & Equipment	Philips Screw Driver set of 5 pieces	2	1	Yes
47	Tools & Equipment	Piston ring compressor	2	1	Yes
48	Tools & Equipment	Piston Ring expander and remover.	2	1	Yes
49	Tools & Equipment	Pliers combination	2	1	Yes
50	Tools & Equipment	Pliers flat nose	2	1	Yes
51	Tools & Equipment	Scraper flat	2	1	Yes
52	Tools & Equipment	Scraper half round	2	1	Yes
53	Tools & Equipment	Scraper Triangular	2	1	Yes
54	Tools & Equipment	Scriber	2	1	Yes
55	Tools & Equipment	Set of stock and dies - Metric	2	1	Yes
56	Tools & Equipment	Steel measuring tape in a case	4	1	Yes
57	Tools & Equipment	Steel rule 30 cm inch and metric	4	1	Yes

S N	Category of T&E	Name of the Tools and Equipment	Quantit y required (No)	Qty Availabl e	Functiona l (Yes/No)
58	Tools & Equipment	Taps and Dies complete sets (5 types)	1	1	
59	Tools & Equipment	Torque wrenches	1	1	
60	Tools & Equipment	Vernier calliper	4	1	Yes
61	Tools & Equipment	Wire Gauge (metric)	2	1	Yes
62	General Shop Outfit	Arbor press hand operated 2 ton capacity	1	1	Yes
63	General Shop Outfit	Diesel Engine – CRDI - 4 stroke	1	1	Yes
64	General Shop Outfit	Grinding machine (general purpose) D.E. pedestal with 300 mm dia. wheels rough and smooth	1	1	Yes
65	General Shop Outfit	Trolley type portable air	1	1	
66	Consumable	Steel wire Brush 50mmx150mm	5	1	Yes
67	Class Room Furniture For Trade Theory	Instructor's table and Chair (Steel)	1	1	Yes
68	Class Room Furniture For Trade Theory	White board size 1200mm X 900 mm	1	1	Yes
69	Class Room Furniture For Trade Theory	Lockers with drawers	1	1	Yes

6. Mechanic Motor Vehicle

SN	Category of T&E	Name of the Tools and Equipment	Quantity required (No)	Qty Available	Functional (Yes/No)
1	Hand Tools	Allen Key set of 12 pieces	7	7	YES
2	Hand Tools	Calliper inside with spring	7	6	YES
3	Hand Tools	Callipers outside with spring	7	6	YES
4	Hand Tools	Center Punch.	7	7	YES
5	Hand Tools	Dividers with spring	7	6	YES
6	Hand Tools	Electrician Screw Driver	7	5	YES
7	Hand Tools	Hammer ball peen with handle	7	7	YES
8	Hand Tools	Hands file for Second cut flat	7	6	YES
9	Hand Tools	Philips Screw Driver set of 5 pieces	7	5	YES
10	Hand Tools	Pliers combination	7	7	YES
11	Hand Tools	Screw driver Blade	7	6	YES
12	Hand Tools	Screw driver Blade	7	6	YES
13	Hand Tools	Scriber	7	2	YES
14	Hand Tools	Spanner D.E. set of 12 pieces	7	7	YES
15	Hand Tools	Spanner, ring set of 12	7	7	YES
16	Hand Tools	Steel rule	7	7	YES
17	Hand Tools	Steel tool box with lock and key (folding type)	7	7	YES
18	Hand Tools	Wire cutter and stripper	7	5	YES
19	Tools & Equipment	Adjustable spanner (pipe wrench)	2		YES
20	Tools & Equipment	AC alternator slip ring puller	1	1	YES
21	Tools & Equipment	Air ratchet	2	1	YES
22	Tools & Equipment	Air impact wrench	2	1	YES
23	Tools & Equipment	Battery –charger	2	1	YES
24	Tools & Equipment	Blow Lamp	2	2	YES
25	Tools & Equipment	Chisel flat	4	4	YES
26	Tools & Equipment	Circlip pliers Expanding and contracting	4	3	YES
27	Tools & Equipment	Cleaning tray	4	4	YES
28	Tools & Equipment	Compression testing gauge	2	1	YES

SN	Category of T&E	Name of the Tools and Equipment	Quantity required (No)	Qty Available	Functional (Yes/No)
29	Tools & Equipment	Copper bit soldering iron	2	2	YES
30	Tools & Equipment	Cylinder bore gauge capacity	1	1	YES
31	Tools & Equipment	Dial gauge type 1 Gr. A (complete with clamping devices and with magnetic stand)	1	1	YES
32	Tools & Equipment	Drill twist (various sizes)	4	4	YES
33	Tools & Equipment	Engineer's square	4	2	YES
34	Tools & Equipment	Feeler gauge 20 blades (metric)	4	4	YES
35	Tools & Equipment	File flat , bastard	4	3	YES
36	Tools & Equipment	File, half round ,second cut	4	4	YES
37	Tools & Equipment	File, Square second cut	4	4	YES
38	Tools & Equipment	File, Square round	4	3	YES
39	Tools & Equipment	File, triangular , second cut	4	3	YES
40	Tools & Equipment	Files assorted sizes and types including safe edge file (20 No's)	2	2	YES
41	Tools & Equipment	Flat File , second cut	4	4	YES
42	Tools & Equipment	Fuel injection pump VE pump / Distributor fuel rotary pump (DPC) pumps / along with special tools and accessories	1	1	YES
43	Tools & Equipment	Grease Gun	2	2	YES
44	Tools & Equipment	Grease Gun heavy duty trolley type	1	1	YES
45	Tools & Equipment	Hacksaw frame	12	5	YES
46	Tools & Equipment	Hammer Ball Peen	4	4	YES
47	Tools & Equipment	Hammer Chipping	5	1	YES

SN	Category of T&E	Name of the Tools and Equipment	Quantity required (No)	Qty Available	Functional (Yes/No)
48	Tools & Equipment	Hammer Mallet	4	2	YES
49	Tools & Equipment	Hand operated crimping tool/wire	2	2	YES
50	Tools & Equipment	Hand vice	2	2	YES
51	Tools & Equipment	Hollow Punch set of seven pieces	2	2	YES
52	Tools & Equipment	Insulated Screw driver	4	2	YES
53	Tools & Equipment	Insulated Screw driver	4	2	YES
54	Tools & Equipment	Lifting jack screw	1	1	YES
55	Tools & Equipment	Magneto spanner set with 8 spanners	1	1	YES
56	Tools & Equipment	Oil can	4	4	YES
57	Tools & Equipment	Outside micrometer	2	2	YES
58	Tools & Equipment	Outside micrometer	2	2	YES
59	Tools & Equipment	Outside micrometer	1	2	YES
60	Tools & Equipment	Outside micrometer	1	1	YES
61	Tools & Equipment	Philips Screw Driver set of 5 pieces (pozidrivandtorx drive)	2	2	YES
62	Tools & Equipment	Piston ring compressor	2	2	YES
63	Tools & Equipment	Piston Ring expander and remover.	2	2	YES
64	Tools & Equipment	Pliers flat nose	2	2	YES
65	Tools & Equipment	Pliers round nose	2	2	YES
66	Tools & Equipment	Pliers side cutting	2	1	YES
67	Tools & Equipment	Portable electric drill Machine	1	1	YES
68	Tools & Equipment	Punch Letter 4mm (Number)	2	2	YES
69	Tools & Equipment	Scraper Triangular	2	2	YES

SN	Category of T&E	Name of the Tools and Equipment	Quantity required (No)	Qty Available	Functional (Yes/No)
70	Tools & Equipment	Scriber	2	1	YES
71	Tools & Equipment	Scriber with scribing black universal	2	2	YES
72	Tools & Equipment	Spanner, adjustable	2	1	YES
73	Tools & Equipment	Spark plug spanner 14mm x 18mm x Size	2	1	YES
74	Tools & Equipment	Steel rule 15 cm inch and metric	4	4	YES
75	Tools & Equipment	Stud extractor set of 3	2	2	YES
76	Tools & Equipment	Surface gauge with dial test indicator plunger type	4	1	YES
77	Tools & Equipment	Tandem master cylinder with booster	4	1	YES
78	Tools & Equipment	Timing lighter	2	2	YES
79	Tools & Equipment	Torque wrenches	1	1	YES
80	Tools & Equipment	V' Block 75 x 38 mm pair with Clamps	2	2	YES
81	Tools & Equipment	Vacuum gauge	2	1	YES
82	Tools & Equipment	Vernier calliper	4	2	YES
83	Tools & Equipment	Vice grip pliers	2	1	YES
84	Tools & Equipment	Automotive Water pump for dismantling and assembling	4	1	YES
85	Tools & Equipment	Wire Gauge (metric)	2	1	YES
86	Tools & Equipment	Work bench	4	4	YES
87	Tools & Equipment	Working model of Air Brake Assembly	1	1	YES
88	Tools & Equipment	Alternator assembly used for LMV	1	1	YES
89	Tools & Equipment	Carburetor – Solex, Mikun for dismantling and	1	1	YES

SN	Category of T&E	Name of the Tools and Equipment	Quantity required (No)	Qty Available	Functional (Yes/No)
		assembling			
90	Tools & Equipment	Chain Pulley Block-3 ton capacity with tripod stand	1	1	YES
91	Tools & Equipment	Disk brake in working condition with caliper assembly with all parts	1	1	YES
92	Tools & Equipment	Drum brake assembly in Working Condition	1	1	YES
93	Tools & Equipment	Front axle (Rzeppa Joint) with stand for Dismantling and assembly	1	1	YES
94	Tools & Equipment	Full floating axle and semi-floating axle assembly	1	1	YES
95	Tools & Equipment	Steering assembly – 1.Rack & pinion 2.Worm & roller 3. Recirculating ball 4.Power steering 5. Electric Assisted Power Steering	1	1	YES
96	Tools & Equipment	Synchronous Gear box with stand for Dismantling and assembly	1	1	YES
97	Tools & Equipment	Tandem master cylinder with booster	1	1	YES
98	Tools & Equipment	Tubed tyre of car, trucks & motorcycle	1	1	YES
99	General Shop Outfit	Arbor press hand operated	1	1	YES
100	General Shop Outfit	Diesel Engine – CRDI - 4 strokefor Dismantling and Assembling with Swiveling Stand.	1	1	YES
101	General Shop Outfit	Hydraulic jack HI-LIFT type	1	1	YES
102	General Shop Outfit	Trolley type portable air compressor	1	1	YES

SN	Category of T&E	Name of the Tools and Equipment	Quantity required (No)	Qty Available	Functional (Yes/No)
103	General Shop Outfit	Diesel Engine six Cylinder in running condition	1	1	YES
104	General Shop Outfit	Four stroke petrol engine with CNG setup-working condition	1	1	YES
105	General Shop Outfit	Wheel alignment Machine – computerized 3D (Optional)	1	1	YES
106	General Shop Outfit	Wheel balancing machine	1	1	YES
107	Consumable	Hydrometer	5	2	YES
108	Consumable	Steel wire Brush	5	2	YES
109	Class Room Furniture For Trade Theory	Instructor's table and Chair	1	1	YES
110	Class Room Furniture For Trade Theory	Students chairs with writing pads	24	24	YES
111	Class Room Furniture For Trade Theory	White board size	1	1	YES
112	Class Room Furniture For Trade Theory	LCD projector with screen.	1	1	YES
113	Class Room Furniture For Trade Theory	Trainees locker	1	1	YES
114	Tools & Equipment For Engineering Drawing Hall	Drawing board	25	1	YES
115	Tools & Equipment For Engineering Drawing Hall	Set square	25	1	YES
116	Tools & Equipment For Engineering Drawing Hall	Stool for trainees	25	25	YES
117	Tools & Equipment For Engineering Drawing Hall	Cupboard (big)	1	1	YES
118	Tools & Equipment For Engineering Drawing Hall	White Board	1	1	YES
119	Tools & Equipment For Engineering Drawing Hall	Trainer's Table	1	1	YES
120	Tools & Equipment For Engineering Drawing Hall	Trainer's Chair	1	1	YES
121	Tools & Equipment For Engineering	Draughtsman table	25	25	YES

SN	Category of T&E	Name of the Tools and Equipment	Quantity required (No)	Qty Available	Functional (Yes/No)
	Drawing Hall				
122	Hand Tools	Spanners socket with speed handle, T-bar, ratchet and universal set of 28 pieces with box	7	5	