

विकास आयुक्त का कार्यालय
(सूक्ष्म, लघु एवं मध्यम उद्यम)
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
(भारत सरकार)



OFFICE OF THE DEVELOPMENT COMMISSIONER
(MICRO, SMALL & MEDIUM ENTERPRISES)
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES
GOVERNMENT OF INDIA
Nirman Bhawan, 7th Floor, Maulana Azad Road,
New Delhi-110 108

निर्माण भवन, सातवीं मंजिल, मौलाना आजाद रोड,
नई दिल्ली-110 108

Ph. EPAX-23063800, 23063802, 23063803, 23063804, 23063805 & 23063806 www.dcmsme.gov.in

No. 21/05/ESTC Ramnagar/GC-AGM/ 2020/TR

Dated: 06.12.2022

Principal Director
Electronics Service & Training Centre (ESTC)
Dhela Rd, Ramnagar,
Kaniya, Uttarakhand 244715

Subject: Minutes of 55th Meeting of Governing Council and 35th Annual General Body Meeting of ESTC Ramnagar held under the Chairmanship of AS&DC (MSME)/ Chairman, GC, ESTC Ramnagar on 16.11.2022 through Hybrid Mode.

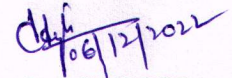
Sir,

Please find enclosed herewith the minutes of 55th Meeting of Governing Council and 35th Annual General Body Meeting of ESTC Ramnagar held on 16.11.2022 through Hybrid Mode, duly approved by the Additional Secretary & Development Commissioner (MSME)/ Chairman, GC, ESTC Ramnagar for further necessary action at your end. The minutes may be circulated to all concerned.

2. Action taken points may be spelt out separately and progress on the various issues may be reported to Chairman's office from time to time.

Please acknowledge receipt of the letter.

Yours faithfully,



(Satinder SINGH)
Asstt. Director (TR)

Encl: as stated.

1. PPS to AS&DC (MSME), O/o DC (MSME)
2. PS to ADC (SK), O/o DC (MSME)
3. Dy. Director (AB), O/o DC (MSME)

MSME-TECHNOLOGY CENTRE – ESTC, RAMNAGAR

MINUTES OF THE 55th MEETING OF GOVERNING COUNCIL OF ELECTRONICS SERVICE & TRAINING CENTRE (ESTC), RAMNAGAR HELD ON 16th NOVEMBER, 2022 UNDER THE CHAIRMANSHIP OF AS&DC THROUGH HYBRID MODE

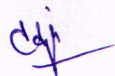
The following were present in the meeting:

1. Shri Vipul Goel : Chairman
AS & DC (MSME)
Office of DC (MSME)
Nirman Bhawan, New Delhi (**Physically**)
2. Additional Development Commissioner : Member
(Electx)/alternate AIA or Director
Office of the DC (MSME), Nirman Bhawan, New Delhi
Represented by:
Shri Mohd. Ali Rahman
Joint Director (TR) (**Physically**)
3. Shri B. L. Meena : Member
Under Secretary (IFW-1)
Ministry of Micro, Small & Medium Enterprises
Udyog Bhawan, New Delhi – 110011 (**Physically**)
4. Head, E-Learning : Member
Department of Information Technology
Ministry of Electronics & IT, Electronics Niketan, 6, CGO Complex
Lodhi Road, New Delhi – 110003
Represented by
Shri Shankar Das, Scientist D (**Online**)
5. Shri S. C. Nautiyal : Member
Director (Industries)
Government of Uttarakhand
Dehradun (Uttarakhand) (**Online**)
6. Shri O. P. Singh : Member
Head, NSIC, Technical Service Centre
A Govt. Of India Enterprises
Okhla Industrial Estate, New Delhi – 110020
Alternate General Manager
NSIC, Technical Service Centre, Hyderabad (**Online**)

7. Shri Ravi Chilkoti : Member
Regional Director
Advance Training Institute (ATI) / NSTI
Green Park, Niranjapur, Dehradun (Uttarakhand) **(Online)**
8. Shri Pankaj Gupta : Member
President
Industries Association of Uttarakhand
Dehradun, Uttarakhand **(Online)**
9. Shri S.K.Chetti : Member
Principal Director
MSME-TC-ESTC, Ramnagar, Uttarakhand **(Physically)**
Convener

The following were granted leave of absence.

1. Joint Secretary (MSME) : Member
Ministry of Micro, Small & Medium Enterprises
Govt. of India, Udyog Bhavan
New Delhi – 110011
2. Director (NEB) : Member
Deptt. Of Science & Technology
Technology Bhavan, New Delhi – 110016
3. Secretary (IT & Planning) : Member
Govt. of Uttarakhand, Dehradun Sachivalaya
Dehradun (Uttarakhand)
4. Principal Secretary & Commissioner : Member
(Social Welfare)
Govt. of Uttarakhand, Dehradun Sachivalaya
Dehradun (Uttarakhand)
5. Director : Member
Electronic Regional Test Laboratory (North)
Ministry of Communication & IT
Okhla Industrial Estate, Phase-II, New Delhi
6. President : Member
Kumaon Small Scale Entrepreneurs Association,
Bajpur Road, Kahipur, U.S Nagar, (Uttarakhand)



Also attendance :

1. Shri Neeraj Arora
Deputy Director (AB)
Office of DC(MSME), 7th Floor,
Nirman Bhavan, New Delhi-110108 **(Physically)**
2. Shri Satinder Singh
Assistant Director (TR)
O/o DC (MSME), New Delhi **(Physically)**
3. Shri Briksha Ram
Director (Training)
ESTC, Ramnagar **(Physically)**

At the outset Principal Director, ESTC Ramnagar, welcomed Shri Vipul Goel, Additional Secretary & Development Commissioner (MSME), the Chairman of the Governing Council, ESTC Ramnagar and all other members of the Governing Council present. After brief introduction, the agenda points were taken up for discussion and following decision taken:

ITEM NO. 55(01) TO CONFIRM THE MINUTES OF 54th MEETING OF THE GOVERNING COUNCIL HELD ON 17th FEBRUARY 2022

The Minutes of the 54th Meeting of the Governing Council of ESTC held on 17th February 2022 were circulated to all members. Since no comments were received from any member, the Governing Council confirmed the minutes.

ITEM NO. 55(02) REVIEW OF THE ACTION TAKEN ON THE MINUTES OF THE 54th MEETING OF GOVERNING COUNCIL HELD ON 17th FEBRUARY 2022.

Governing Council noted the action taken on the directions of previous meeting of Governing Council.

ITEM NO. 55(03) PERFORMANCE REVIEW FOR(I) PERFORMANCE OF THE CENTRE FOR THE FINANCIAL YEAR 2021-22 & (II) PERFORMANCE OF CURRENT YEAR I.E. 2022-2023 (UPTO OCTOBER 2022)

Governing Council reviewed the performance of ESTC, Ramnagar during the year 2021-2022 & 2022-2023 (up to October 2022) and directed PD, ESTC on following:

(i) To utilize all available resources so as to achieve the assigned targets for the current year 2022-2023.

(ii) The machine utilization of A & B class machines should be increased to optimum level.

ITEM NO. 55(04) IMPORTANT ACTIVITIES TO BE BROUGHT TO THE INFORMATION OF THE GC.

(1) Establishment & Performance of a Sub- Centers & Extension Centers

Governing Council noted and directed PD to set the internal targets for trainees to be trained, revenue generation & expenditure for all the Extension Centres of ESTC Ramnagar and should be reflecting the comparison with last year performance in the future / upcoming GC Agenda point.

(2) Introduction of Modular Courses / Customized Training Programs

Governing Council Noted.

(3) Medical Reimbursement to the employees

Governing Council Noted. Should be submitted for approval on file.

(4) Performance of the Institutional Framework for Industry – Academia Linkages

Governing Council Noted

(5) Progress of Industry 4.0 initiatives

PD, ESTC Ramnagar informed that the centre is in process to establishment of Drone Flying School at ESTC, Ramnagar for manufacturing of Drones as well as related training activities are being conducted.

Governing Council noted and directed PD, ESTC, Ramnagar to do the needful for implementation of Industry 4.0 in ESDM sector at Ramnagar.

- (6) **New Products/Initiative taken under Atmanirbhar Bharat Abhiyan – Manufacturing of various products.**

Governing Council Noted.

- (7) **Utilization of Surplus funds towards creation of Capital assets / machinery & Equipment/Civil Works etc. for the year 2021-22**

PD, ESTC Ramnagar informed that no fund was utilized towards creation of Capital assets / machinery & Equipment/Civil Works etc. during the year 2021-22 from the surplus funds of ESTC Ramnagar generated through internal resources. Governing Council noted and directed PD, ESTC Ramnagar to take necessary approval from Chairman's office before procurement the capital items (i.e. machinery, equipment, civil works) if expenditure to be met out from their surplus funds generated through internal revenue resources.

- (8) **Progress status of Civil Works under Comprehensive and regular action Plan**

Governing Council noted and directed PD, ESTC Ramnagar to regular follow up with CPWD official to expedite the work & complete in time bound manner at the earliest. PD, ESTC Ramnagar informed the GC that the civil work will be completed by 31.12.2022.

- (9) **Details of Bank Accounts**

Governing Council noted

- (10) **Present Bank Authorized Signatories (Joint Signatories)**

PD, ESTC Ramnagar informed that PD is the Primary Signatory and Director (Training) is secondary signatory for all the Bank Accounts. Governing Council noted.

- (11) **Additional Achievements 2021-22**

Governing Council Noted

ITEM NO. 55(05) STATUS OF ACTION PLAN 2021-22 APPROVED IN LAST GOVERNING COUNCIL MEETING.

PD, ESTC Ramnagar informed that Action Plan for the year 2021-22 was approved for an amount of Rs. 793.00 lakh (to be implemented over a period of two years i.e. 2021-22 & 2022-23), out of which Rs. 116.00 lakh was utilized for procurement of machines & equipment and Action Plan of Rs. 80.00 lakh was dropped and remaining Action Plan of Rs. 597.00 lakh is being carry forward for the year 2022-23.

Governing Council noted.

ITEM NO. 55(06) PROPOSED ACTION PLAN FOR THE YEAR 2022-23 & 2023-24

PD, ESTC Ramnagar informed that Office of DC (MSME) vide their email dated 09.11.2022 has directed to prepare the two separate Action Plans for Creation of Capital assets (i) for the current financial year 2022-23 (up to 31.03.2023) and (ii) next year Action Plan 2023-24 (from 01.04.2023 to 31.03.2024) only for those machines / equipment & civil work which are procured / execute within the time frame. As per the directions, ESTC Ramnagar has prepared two separate Action Plans for creation of capital Assets and incorporate in the GC Agenda, as under:

Sl No.	Description	Amount (in Lakhs)
(A)	For the Financial year 2022-23 (upto 31.03.2023) out of carry forward Action Plan of Rs. 597.00 lakh	
	(a) Plant & machinery	467.00
	(b) Civil works	0.00
	Total (A)	467.00
(B)	Plant & machinery for the Financial year 2023-24 (from 01.04.2023 to 31.03.2024) (new & carry forward Action Plan)	
	(a) Plant & machinery	299.50
	(b) Civil works	0.00
	Total (B)	299.50
	Total (A+B)	766.50

Chairman, Governing Council considered and approved the above Action Plan of Rs. 766.50 lakh (Rs. 467.00 lakh for utilised upto 31.03.2023 and Rs. 299.50 lakh for utilised upto 31.03.2024) The details of the above Action Plan of Rs. 766.50 lakh is at **Annexure –A**.

ITEM NO. 55(07) ANNUAL REPORT & ANNUAL ACCOUNTS DULY AUDITED BY THE STATUTORY AUDITORS FOR THE YEAR 2021-2022.

Governing Council considered and approved the Annual Report & Audited Annual Accounts of the ESTC, Ramnagar, for the year 2021-22 and recommended to General Body for its adoption. However, GC directed PD, ESTC Ramnagar to check the contents and other information before printing the Annual Report.

ITEM NO. 55(08) APPOINTMENT OF STATUTORY AUDITORS FOR THE YEAR 2022-2023.

Governing Council considered the appointment of M/s Sanjeev K. Kashyap & Associate (CAG empanelled no. CR425231/2014 & Regd. No. 020491C) as Statutory Auditor for ESTC, Ramangar (being L1) for the financial year 2022-23 (1st year) at a remuneration of Rs. 16,000/- per annum inclusive all taxes and recommended to General Body, ESTC for its approval.

ITEM NO. 55(09) RATIFICATION OF CHAIRMAN'S DECISION TAKEN AFTER THE PREVIOUS GC MEETNG

(i) Physical & Financial Target for the year 2022-2023

Governing Council ratified the following physical and financial targets assigned to ESTC Ramnagar for the year 2022-23:

S. No.	Financial (Rs in lakh)	Amount (in lakh)
(A)	Revenue earned	
	(i) Training	301.00
	(ii) Production	
	(a) Tooling, Die & Mould	0.00
	(b) Job Works	33.00
	(iii) Testing	0.00
	(iv) Calibration	0.00
	(v) Consultancy/services	1.00
	(vi) others	149.00
	Total (A)	484.00
(B)	Revenue Expenditure	430.00
(C)	Physical (Nos.)	
	(a) Trainees trained	4500
	(b) Unit assisted	
	(i) Micro units	150
	(ii) Small units	75
	(iii) Medium units	15
	(iv) others	0
	Total (b)	240
(D)	Number of tooling & Die Mould	0
(E)	No. of Testing	0
(F)	No. of Calibration	0

(Handwritten signature)

(ii) WPMS No. 336 of 2022: ESTC, Ramnagar Vs UPCL (Uttarakhand Power Corporation Limited) Tariff Order & related charges case in High Court of Uttarakhand.

Governing Council ratified the Tariff Order & related charges case in High Court of Uttarakhand

ITEM NO. 55(10) STATUS OF THE AUDIT POINTS

Governing Council noted. However, GC directed PD, ESTC Ramnagar to send reply of all pending Audit para to Office of the Director General of Audit, New Delhi / other concerned authorities under intimation to Chairman's office. Further, directed PD, to resolve the audit para /issues at the earliest.

Further, GC directed PD to proper follow up with Office of the Director General of Audit, New Delhi / other concerned authorities to settle all the pending audit paras at the earliest under intimation to Chairman's office and also inform the status to next GC meeting.

ITEM NO. 55 (11) ANY OTHER POINT

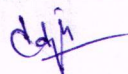
(1) INCREASED COST FOR 3 ITEMS OF APPROVED ACTION PLAN 2020-21 AT ESTC RAMNAGAR.

Governing Council deliberated the proposal for increase cost for 3 items i.e. (i) UV Exposer (ii) CNC Milling Machine & (iii) Two stage Air Compressor of approved Action Plan 2020-21 & directed PD, ESTC Ramnagar to submit the Government organizations purchase orders of similar items from the L1 vendors in the last 1 -2 years to Chairman's office for further review and to take decision on file.

(2) APPROVAL TO START AICTE APPROVED LONG TERM COURSE.

Resolution of the Electronics Service & Training Centre, Ramnagar

That the Electronics Service & Training Centre vide its Governing Council meeting held on 16.11.2022 at 3:00 PM vide item no 55 (11) 2 have resolved, for the



(i) Apply to AICTE for approval to start at Electronics Service & Training Centre to offer Technical Education in Diploma in Computer Science Engineering and shall allocate, Land/space at Kaniya, Ramnagar, Uttarakhand – 244715. Required funds for creation of carpet and Built – up area.

Governing Council approved.

(ii) Starting of new Programme/Level, Programme(s)

S. No	Eligibility	Course Description	Course Duration	No. Intake	Level
1	Passed 10th Std./ SSC examination	Computer Science Engineering	3 Years	60	Diploma

Governing Council approved

(3). (a) **Inordinate delay in disposal of obsolete item. (CAG Audit Para PART II B Para 6)**

&

(b) **Disposal of old and obsolete Vehicle**

Governing Council deliberated the proposals and directed PD, ESTC Ramnagar to send detailed proposal for disposal of obsolete items / vehicle as per GFR provision along with all relevant documents to Chairman's office to take decision on file.

THE MEETING ENDED WITH VOTE OF THANKS TO THE CHAIR.

MSME-TECHNOLOGY CENTRE – ESTC, RAMNAGAR

MINUTES OF THE 35th MEETING OF ANNUAL GENERAL MEETING OF ELECTRONICS SERVICE & TRAINING CENTRE (ESTC), RAMNAGAR HELD ON 16th NOVEMBER, 2022 UNDER THE CHAIRMANSHIP OF AS&DC THROUGH HYBRID MODE

The following were present in the meeting:

1. Shri Vipul Goel : President
AS & DC (MSME)
Office of DC (MSME)
Nirman Bhawan, New Delhi (**Physically**)
2. Additional Development Commissioner : Member
(Electx)/alternate AIA or Director
Office of the DC (MSME), Nirman Bhawan, New Delhi
Represented by:
Shri Mohd. Ali Rahman
Joint Director (TR) (**Physically**)
3. Shri B. L. Meena : Member
Under Secretary (IFW-1)
Ministry of Micro, Small & Medium Enterprises
Udyog Bhawan, New Delhi – 110011 (**Physically**)
4. Head, E-Learning : Member
Department of Information Technology
Ministry of Electronics & IT, Electronics Niketan, 6, CGO Complex
Lodhi Road, New Delhi – 110003
Represented by
Shri Shankar Das, Scientist D (**Online**)
5. Shri S. C. Nautiyal : Member
Director (Industries)
Government of Uttarakhand
Dehradun (Uttarakhand) (**Online**)
6. Shri O. P. Singh : Member
Head, NSIC, Technical Service Centre
A Govt. Of India Enterprises
Okhla Industrial Estate, New Delhi – 110020
Alternate General Manager
NSIC, Technical Service Centre, Hyderabad (**Online**)

7. Shri Ravi Chilkoti : Member
Regional Director
Advance Training Institute (ATI) / NSTI
Green Park, Niranjapur, Dehradun (Uttarakhand) **(Online)**
8. Shri Pankaj Gupta : Member
President
Industries Association of Uttarakhand
Dehradun, Uttarakhand **(Online)**
9. Shri S.K.Chetti : Member
Principal Director : Convener
MSME-TC-ESTC, Ramnagar, Uttarakhand **(Physically)**

The following were granted leave of absence.

10. Joint Secretary (MSME) : Member
Ministry of Micro, Small & Medium Enterprises
Govt. of India, Udyog Bhavan
New Delhi – 110011
11. Director (NEB) : Member
Deptt. Of Science & Technology
Technology Bhavan, New Delhi – 110016
12. Secretary (IT & Planning) : Member
Govt. of Uttarakhand, Dehradun Sachivalaya
Dehradun (Uttarakhand)
13. Principal Secretary & Commissioner : Member
(Social Welfare)
Govt. of Uttarakhand, Dehradun Sachivalaya
Dehradun (Uttarakhand)
14. Director : Member
Electronic Regional Test Laboratory (North)
Ministry of Communication & IT
Okhla Industrial Estate, Phase-II, New Delhi
15. President : Member
Kumaon Small Scale Entrepreneurs Association,
Bajpur Road, Kahipur, U.S Nagar, (Uttarakhand)



Also attendance :

1. Shri Neeraj Arora
Deputy Director (AB)
Office of DC(MSME), 7th Floor,
Nirman Bhavan, New Delhi-110108 **(Physically)**
2. Shri Satinder Singh
Assistant Director (TR)
O/o DC (MSME), New Delhi **(Physically)**
3. Shri Briksha Ram
Director (Training)
ESTC, Ramnagar **(Physically)**

ITEM NO. 35(01) TO CONFIRM THE MINUTES OF 34th ANNUAL GENERAL MEETING HELD ON 17th FEBRUARY 2022.

Minutes of the 34th Meeting of the General Body held on 17.02.2022 were circulated to all the members. Since no comments were received from any member, the General Body confirmed the same.

ITEM NO. 35(02) ACTION TAKEN ON THE DECISIONS OF THE PREVIOUS MEETING HELD ON 17th FEBRUARY, 2022.

Noted by the General Body.

ITEM NO. 35(03) CONSIDERATION AND ADOPTION OF ANNUAL REPORT AND ANNUAL ACCOUNTS FOR THE YEAR 31ST MARCH, 2022 AS RECOMMENDED BY THE GOVERNING COUNCIL IN ITS 55TH MEETING HELD ON 16.11.2022 AT 3.00 PM

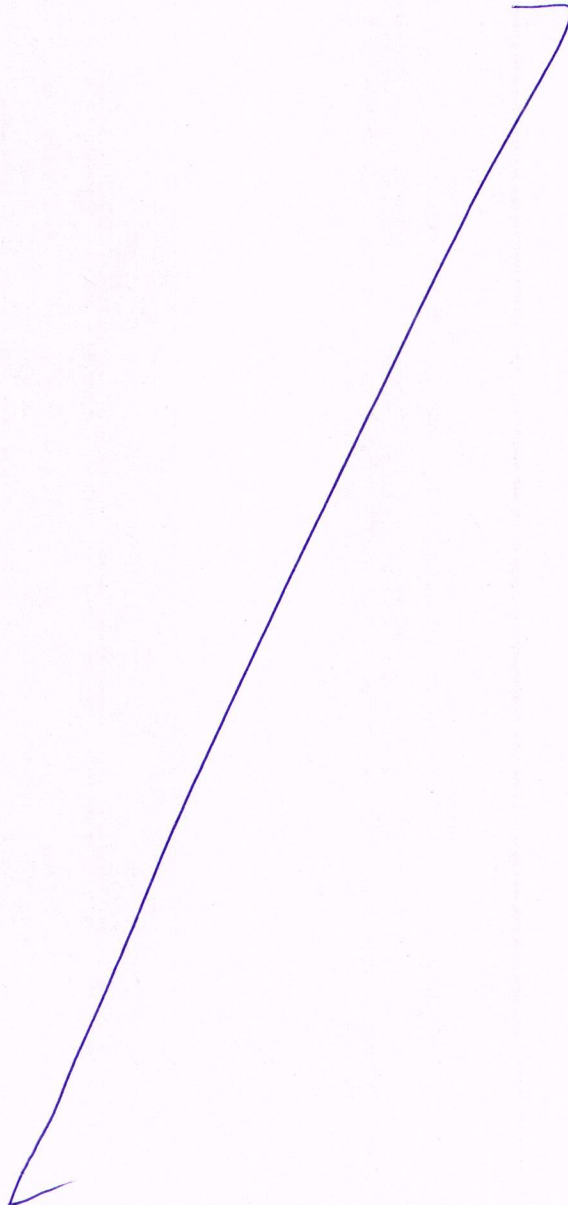
The Annual Report and Audited Annual Accounts, of ESTC, Ramnagar, audited by the Statutory Auditors for the year 2021-22, as approved and recommended by the Governing Council in its 55th meeting held on 16th November 2022 were adopted by the General Body of ESTC, Ramnagar.

ITEM NO. 35(04) CONSIDERATION OF APPOINTMENT OF AUDITORS FOR THE SOCIETY FOR THE YEAR 2022-2023.

The appointment of M/s Sanjeev K. Kashyap & Associate (CAG empanelled no. CR425231/2014 & Regd. No. 020491C) as Statutory Auditor for ESTC, Ramangar (being L1) as Statutory Auditors for the year 2022-23 at an annual remuneration of Rs. 16,000/- (all inclusive), as recommended by the Governing Council in its 55th Meeting held on 16th November 2022, was approved.

ITEM NO. 35 (05) ANY OTHER POINT

THE MEETING ENDED WITH VOTE OF THANKS TO THE CHAIR.



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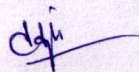
Action Plan of ESTC Ramnagar for the 2022-23 & 2023-24

SI No.	Description	Amount (in Lakhs)
(A)	For the Financial year 2022-23 (upto 31.03.2023) out of carry forward Action Plan of Rs. 597.00 lakh	
	(a) Plant & machinery	467.00
	(b) Civil works	0.00
	Total (A)	467.00
(B)	Plant & machinery for the Financial year 2023-24 (from 01.04.2023 to 31.03.2024) (new & carry forward Action Plan)	
	(a) Plant & machinery	299.50
	(b) Civil works	0.00
	Total (B)	299.50
	Total (A+B)	766.50

(A) For the Financial year 2022-23 (upto 31.03.2023)**(a) Plant & machinery (approved under Action Plan for the year 2020-21 & 2021-22)**

S.No.	Name of the machine / equipment	Quantity (in nos.)	Estimated Amount (In lakh)	Location (Pls mention at main centre / Extension centre except TCEC)	Specification	Why needed / justification	Payback period (in years)	Status/If carry forward, mention year of action plan
01	SOLID WORKS	05 Nos	10.00	Main Centre	Designing Software	For Training Product Design and AR/VR	5-7 Years	2020-21
02	CNC Real Machine Operation	10 User	25.00	Main Centre	CNC Simulator	For Training.	5-7	2020-21

	Simulator for turning and milling				with software and Monitor		Years	
03	All-in-One Computer with UPS, MSOffice Suite and Antivirus	50 No's	65.00	Main Centre	Latest Process, AIO Computers with MS office and Accessories	For Expansion of Computer Labs for Diploma and Other courses	5-7 Years	2021-22
04	<p>AICTE Polytechnic Labs <u>Mechanical Engineering</u> <u>Branch – 3th Sem</u></p> <p>(I) Applied Mechanics Lab (II) Workshop Technology Lab (III) Thermodynamics Lab (IV) Basic Electrical and Electronics Technology Lab</p> <p><u>Mechanical Engineering</u> <u>Branch – 4th Sem</u></p> <p>(I) Hydraulics and Hydraulic Machines Lab (II) Applied Thermal Engineering Lab (III) Automobile Engineering Lab (IV) Strength of Materials Lab (V) Metrology, Instrumentation & Control Lab</p>	As per Syllabus	22.00	Main Centre	As per Syllabus	For AICTE Approved 3 Years Diploma	5-7 Years	2021-22
			25.00					



<u>Mechanical Engineering</u>						
<u>Branch – 5th Sem</u>						
(I) CNC Machines and Automation Lab		61.00				
(II) Maintenance Engineering Lab						
<u>Mechanical Engineering</u>		59.00				
<u>Branch – 6th Sem</u>						
(I) Computer Applications in Mechanical Drafting, Design & Analysis Lab						
(II) Refrigeration and Air Conditioning Lab						
<u>Electrical Engineering Branch</u>						
<u>– 3th Sem</u>						
(I) Fundamentals of mechanical and civil engineering Lab		23.00				
(II) Electrical measurement and measuring instruments Lab						
(III) Electronics devices and circuits Lab						
(IV) Electrical Workshop Practice Lab						
(V) Fundamental of Electrical Engineering Lab						
<u>Electrical Engineering Branch</u>						
<u>– 4th Sem</u>		20.00				

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	(I) D.C Machines and Transformers Lab (II) Digital Electronics and Microprocessors Lab (III) Electrical Circuits and Analysis Lab <u>Electrical Engineering Branch</u> <u>- 5th Sem</u> (I) A.C. Machines Lab (II) Sub-Station, Switchgear and Protection Lab (III) Installation and Maintenance of Electrical Equipment's Lab (IV) Industrial Electronics & Control of Drives Lab <u>Electrical Engineering Branch</u> <u>- 6th Sem</u> (I) Utilization of Electrical Energy Lab (II) Non-Conventional Energy Sources Lab (III) SCADA, PLC & Microcontrollers Lab (IV) Application of Computer Software in Electrical Engineering Lab							
			18.00					
			32.00					
05	Solar Lab Items				5KVA Inverter	For Expansion of	4-5	2020-21

	a. Inverter 5KVA b. Battery 200Ah	02 Nos 10 Nos	4.00	Main Centre	200 Ah Tubular Batteries	Solar Technology Lab	Years	
06	Drone Lab Items a. DJI Phantom Latest Drone for Videography b. Quadcopter Drone Combo Kit c. Soldering Station	01 No. 05 Nos 10 Nos	6.00	Main Centre	Minor Drones with simple applications.	For Establishing Drone Flying School	4-5 Years	2020-21
07	Proteus VSM Simulation Software Latest	05 Nos	1.00	Main Centre	Schematic and PCB for embedded design, offering system level simulation of microcontroller based designs inside the schematic package itself	For Electronics Simulation Lab	3-5 Years	2020-21
08	Electrical Lab Items a. Digital Power Factor Meter b. Analog Power Factor Meter c. Star Delta Motor with Starter d. Vacuum Cleaner e. Hair Dryer	01 No 01 No 01 No 01 No	1.00	Main Centre	Handheld Electrical Power Meters Small assembled vacuum cleaner and Hair dryer	For Expansion of Electrical Lab.	3-5 Years	2020-21
09	Computer Lab Items a. Coral Draw Graphic suit	05 User	3.00	Main Centre	As Per Updated	For Expansion of	3-5	2020-21

	2020 b. ARDUINO UNO board with Connectors, sensors, Components) c. Antivirus d. Networking Switch 24 Port	25 Nos 50 Nos 02 Nos	1.75 2.00 0.50		Syllabus of NIELIT Accreditation for O Level course	Computer Lab.	Years	
10	Telecom Lab a. Trainer Kit Function Generator b. Basic Electronics 'Component trainer' kit c. Cable Cutter, Cable Splitter, Cable Jacket Stripper, Connector Crimper, Fiber Optic Stripper, Cleaver, Mechanical Splicer, Safety Kit d. Mobile Repairing Training Kit Package	02 Nos 05 Nos 05 Nos 03 Nos	0.75 3.00 2.00 20.00	Main Centre	Electronic test equipment that generates standard waveforms, such as sine, square, ramp, or sawtooth waves, to a device under test.	For Expansion of Telecom Lab.	5-7 Years	2020-21
11	Additional Items in AR/VR Lab (I) Computer System – Dell Precision 3630 (II) HTC VIVE Focus 3 (III) Oculus Quest 2 256GB (IV) Tripod Stand	02 Nos 01 No 01 No 01 No	12.00	Sub Centre New Delhi	Advanced Devices for VR Simulation. Standalone devices	For Industry 4.0 – AR/VR Lab Enhancement	5-7 Years	2021-22



	(V) Speaker System 5.1							
12	Latest Version Laptops	10 Nos	10.00	Main Centre	14' Screen; 11 th Gen; Intel i7; SDD 512 GB; RAM 16GB with accessories	For Online Training programmes at Site	3-5 Years	2020-21
13	Interactive Smart Board	10 Nos	12.00	Main Centre	100 Inch; Ultrashort focus; IR/Optical Tracking	For Training Purpose	3-5 Years	2020-21
14	Projector	02 Nos	1.50	Main Centre	300 W Lamp; Projection Ration 1.26-2.30:1; Zoom – Manual; Size 50X300	For Training Purpose	2-3 Years	2020-21
15	UPS	100 Nos	4.50	Main Centre	1KVA; MOSFET Tech; 30 Min Backup	For Expansion of Computer Lab	4-5 Years	2020-21
16	External HDD 4 TB	04 Nos	1.00	Main Centre	HDD 4 TB - SATA	For Training Purpose	3-5 Years	2020-21
17	Multicolour Photocopy and Printer	05 Nos	7.00	Main Centre	Duplex; Ink Tank Printer	For Training Purpose	3-5 Years	2020-21
18	Electrical Products Electrical Heaters Electrical Geysers Large Format Display Tea Kettles Smart Switches and Bulbs	05 Nos 10 Nos 01 No 03 No 10 Nos	10.00	Main Centre	Oil Room Heaters 5L Geysers Display for Conference Room Smart Electrical Lab	For Office and Hostel.	5-7 Years	2020-21

19	Three-Seater metal chairs for common area	06 Nos	1.00	Main Centre	3 Seater Metal Single Chair	For Office	-----	2021-22
20	Metal Almirahs	10 Nos	2.50	Main Centre	7 Feet Metal Almirah's for Accounts	For Office	-----	2021-22
21	Plastic Chairs	50 Nos	0.50	Main Centre	Plastic Non Handle Chairs	For External Events	-----	2021-22
Total (a)			467.00					

(b) Civil works

S.No.	New civil works / renovation	Whether PE obtained from CPWD (Yes / No)	Estimated Amount (In lakh)	Location (Pls mention at main centre / Extension centre except TCEC)	Why needed / justification	If carry forward, mention year of action plan
				NIL		
Total A (a+b) 467.00						

A. For the Financial year 2023-24 (from 01.04.2023 to 31.03.2024)

(a) Plant & machinery

S.No.	Name of the machine / equipment	Quantity (in nos.)	Estimated Amount (In lakh)	Location (Pls mention at main centre / Extension centre except TCEC)	Specification	Why needed / justification	Payback period (in years)	If carry forward, mention year of action plan
01	Electric Vehicle Charging System & Training System	01 No each	70.00	Sub Centre – New Delhi	Charging Station - Level 2 (AC);	To Provide industry	5-7 Years	2021-22

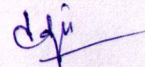
	<ul style="list-style-type: none"> a. Electric Vehicle Charging Station 22KWatt b. Electric Vehicle Transmission Training System c. Electric Break Training Bench d. Electric Power Steering System e. Other Related Additional Items 				Voltage (V) - 380-400 V; Power (kW) - <=22 kW; Type of Vehicle - 4w,3w,2w; Type of compatible charger - Type 1, Type 2, GB/T ,Bharat AC-001	relevant electric vehicle design and service skills		
02	Industry 4.0 Labs/Solutions <ul style="list-style-type: none"> a. Factory Process Flow Simulator (I4.0) b. Total Productive Maintenance Solution for existing machines with Analytics Software 	01 No	45.00	Main Centre	Circuits simulate industry-specific process control applications in order to familiarise with the basic principles of closed-loop control technology.	For Training, Service Offering and Monitoring	5-7 Years	2021-22
03	Student Library & Learning Management System (Cloud Based)	01 No	15.00	Main Centre	Cloud based, User friendly with admission and library management	For Training Purpose	5-7 Years	2021-22
04	Library Expansion as per AICTE/NIELIT (Books/Journals/Subscriptions/IEEE)	LS	10.00	Main Centre	Technical Books as per revised syllabus.	For AICTE 3 Years Diploma	5-7 Years	New activity
05	Laser Photo Plotter Machine	01 No	24.00	Main Centre	Mechanism- Laser Plotting	Training & Production	5-7 Years	New activity

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					Auto Film Processing Plotting Time less than 10 Mins			
06	ID Card Printer (Smart Card Printer)	01 No	2.00	Main Centre	Direct to Card Printing, Full Colour, Dual Sided Printing (Auto), PVC, PET, Composite card support.	Training	3-5 Years	New activity
07	Plasma Cutter	01 No	8.00	Main Centre	Pilot arc ignition by high voltage, ignition unit metal to be cut Aluminium, Mild Steel and other electric-conductive material	Training & Production	5-7 Years	New activity
08	Conventional Machine – Lathe	02 Nos	15.00	Main Centre	Horizontal lathe general purpose medium duty checking type, precision lathe with single spindle can be perform facing, cantering, chamfering	For Diploma & Training	5-7 Years	New activity



					,grooving, taper turning and drilling operation			
09	Universal Milling Machine	01 No	20.00	Main Centre	Rectangular table guide ways with high stability, Hardened and ground table surface with precision and high strength.	For Diploma & Training	5-7 Years	New activity
10	CNC Wood Router	01 No	30.00	Main Centre	Auto Tool Changer Ai profile, Steel Fabricated, Servo motor Linear guide way operation, Axis of travel XYZ.	For Training & Production	5-7 Years	New activity
11	CNC Laser Cutting Machine (Metal)	01 No	45.00	Main Centre	Fast Cutting with high precision can cut SS, MS, Carbon Steel etc. Movable gantry	For Training & Production	5-7 Years	New activity
12	Two Stage Compressor	01 No	1.50	Main Centre	Heavy duty air compressor with two cylinders with two pistons.	For Training & Production	5-7 Years	New activity
13	Electric Saw Machine	1 No	2.00	Main Centre	Heavy duty chain	For Office	-----	New



	Electric Floor Cleaning Machine Electric Grass Cutting Machine	Each			saw, Reliable speed of operation. Ample bar length to provide full safety to the user. Two counter rotating brushes. Brush is adjustable by the operator depending on the types of floor to clean. Electrical traction system and strong structure. Powerful electrical grass cutting motor with rotating blade, cutting height adjustment and grass collecting box.	Purpose		activity
14	Solar Lab items for Jalmitra a. AC Energy Meter b. Lux Meter c. Tachometer d. Chain Pull Block Capacity with tripod stand Chisel flat e. Different types of turbine runner	1 No Each	12.00	Main Centre	As per Jalmitra NSQF Programme	For Solar Jalmitra training	5-7 Years	New activity

dyi

	model							
	f. Chalk, Prussian blue							
	g. Dumpy Level with all Accessories							
	h. Auto Level with all Accessories							
	i. Instrument for Total Station with latest model, with all accessories							
	j. Hand Held GPS							
	Total (a)		299.50					

(b) **Civil works**

S.No.	New civil works / renovation	Whether PE obtained from CPWD (Yes / No)	Estimated Amount (In lakh)	Location (Pls mention at main centre / Extension centre except TCEC)	Why needed / justification	If carry forward, mention year of action plan
				NIL		
				Total B (a+b) 299.50		
				Total (A+B) 766.50		
