



MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES
GOVERNMENT OF INDIA

सेन्ट्रल टूलरूम एन्ड ट्रेनिंग सेन्टर, भुवनेश्वर CENTRAL TOOL ROOM & TRAINING CENTRE, BHUBANESWAR

भारत सरकार की सोसाइटी, सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Government of India Society, Ministry of Micro, Small & Medium Enterprises



ISO 9001, 14001, 50001 & 29990
OHSAS 18001 & AS 9100

ANNEXURE II :

(Ref: S.O. No. 1739, Dt: 29.06.2015)

DIRECTORATE OF SCIENCE & TECHNOLOGY
OFFICE OF THE COMMISSIONER KVI
"GRAMODAYA" 3, IRLA ROAD, VILE-PARLE (W)
MUMBAI-400056

Proforma for submission of new R&D project proposal year 2024

I – PART-A

1.	Name of the Institution / Individual: Central Tool Room & Training Centre, Bhubaneswar	
2.	Institutional Structure/Registration Details: UDYAM registration Certificate attached	
2a	Legal Status	Society Registered under Govt. of India, Ministry of MSME
2b	Date of Registration	07/05/1990 certificate attached
2c	Registered Address	B-36, Infocity Avenue, Chandaka Industrial Area, Patia, Bhubaneswar-751024
2d	Office Address/ Locations	B-36, Infocity Avenue, Chandaka Industrial Area, Patia, Bhubaneswar-751024 Phone: 0674-2654702 Fax: e-mail: cttc@cttc.gov.in
2e	Affiliated to KVIC	No

3. Validity date of Registration (in case of NGO's):

4. Name & Designation of the head of the organization:
Mr. Lingam Rajasekhar, General Manager

5. Name, Designation & address of the Project Coordinator:
Mr. Surendra Allu, Sr. Engineer (Design) & Address: B-36, Infocity Avenue, Chandaka Industrial Area, Patia, Bhubaneswar-751024

6. Background of the organization:

(a) Developed Hydra Pulper for Paper Machine on request from state office, KVIC Bhubaneswar.

L. Rajasekhar
(L. Rajasekhar)
General Manager
Central Tool Room & Training Centre
Bhubaneswar



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- (b) Modern Tool Room with latest CNC Machines, more than 60 conventional machines, 35 CNC Machines and more than 2000 latest configured computers, 62 CAD/CAM/Electrical/Electronics/VLSI Labs, Design & Development using modern CAD/CAM systems. The area covered more than 11 acres of land. Expertise in Aerospace components manufacturing. Contribution to making critical components for the CHANDRAYAAN-3 Moon mission, TEJAS fighter aircraft of the Indian Air Force, HAL & ADA.

- (c) Details of completed and ongoing projects during the last 3 years.

Sr. No.	Title of the project	Start date-Completion date	Name and full address of funding agency	Amount sanctioned *	Amount received*
1.	Screen Printing	On-going	CTTC Bhubaneswar		
2.	Paper Cutter (Motorized)	On-going	CTTC Bhubaneswar		
3.	File Master	On-going	CTTC Bhubaneswar		

*Enclose copies of the sanction

- District / Area to be taken up for the project:
Bhubaneswar-Khordha / Rayagada – Koraput / Kennjhar/ Puri
- Location of projects implementation and details thereon.
Rural parts of Odisha.
- If any developmental activity has been done in the proposed Location prior to submission of this proposal by the Project Coordinator or the Organization, the details may be given in brief.
No.
- Details of the infrastructure of the organization in the proposed Location.

Modern Tool Room with latest CNC Machines, more than 60 conventional machines, 35 CNC Machines and more than 2000 latest configured computers, 62 CAD/CAM/Electrical/Electronics/VLSI Labs, Design & Development using modern CAD/CAM systems. The campus area covered more than 15 acres of land. Advanced Dedicated R & D cells and laboratories for conducting Research and development on next-gen technologies/projects. Experience of more than 20 years in Research and Development fields. With combined staff strength of more than 400 employees, CTTC Bhubaneswar has been conducting local, national & international level projects.

L. Rajasekhar

(L. Rajasekhar)
General Manager
Central Tool Room & Training Centre
Bhubaneswar



Certificate of Registration of Societies

ACT XXI OF 1860

BBSR

No. 2810-58 of 19.90-1991

I hereby certify that Central Tool Room and Training Centre, Bhubaneswar
At. Chandaka-B Industrial Area
Bhubaneswar, Dist. Puri
 has this day been registered under the Societies
 Registration Act (No. XXI of 1860).

Given under my hand at Bhubaneswar

this 7th day of May

One thousand nine hundred and ninety

4/5/90
 Registrar of Societies,
 ADDL REGISTRAR, SOCIETIES
 BHUBANESWAR

[Signature]

(Sibasis Maity)
 Managing Director
 Central Tool Room & Training Centre
 Bhubaneswar

[Signature]
 (L. Rajasekhar)
 General Manager
 Central Tool Room & Training Centre
 Bhubaneswar



UDYAM REGISTRATION CERTIFICATE

UDYAM REGISTRATION NUMBER

UDYAM-OD-19-0011565

NAME OF ENTERPRISE

M/S CENTRAL TOOL ROOM AND TRAINING CENTRE

TYPE OF ENTERPRISE *

S.No.	Classification Year	Enterprise Type	Classification Date
1	2022-23	Micro	26/06/2022
2	2021-22	Medium	17/07/2021

MAJOR ACTIVITY

MANUFACTURING

SOCIAL CATEGORY OF
ENTREPRENEUR

GENERAL

NAME OF UNIT(S)

S.No.	Name of Unit(s)
1	CENTRAL TOOL ROOM AND TRAINING CENTRE
2	CENTRAL TOOL ROOM AND TRAINING WORKSHOP, RAYAGADA

OFFICAL ADDRESS OF ENTERPRISE

Flat/Door/Block No.	PLOT NO.B-36	Name of Premises/ Building	CHANDAKA INDUSTRIAL AREA
Village/Town	BHUBANESWAR	Block	B-36
Road/Street/Lane	PO-KIIT(SO)	City	BHUBANESWAR
State	ODISHA	District	KHORDHA , Pin 751024
Mobile	9437491950	Email:	cttc@cttc.gov.in

DATE OF INCORPORATION /
REGISTRATION OF ENTERPRISE

07/05/1990

DATE OF COMMENCEMENT OF
PRODUCTION/BUSINESS

01/09/1995

NATIONAL INDUSTRY
CLASSIFICATION CODE(S)

SNo.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity
1	32 - Other manufacturing	3290 - Other manufacturing n.e.c.	32909 - Manufacture of other articles n.e.c.	Manufacturing
2	85 - Education	8549 - Other education n.e.c.	85499 - Other educational services n.e.c.	Services

DATE OF UDYAM REGISTRATION

17/07/2021

* In case of graduation (upward/reverse) of status of an enterprise, the benefit of the Government Schemes will be availed as per the provisions of Notification No. S.O. 2119(E) dated 26.06.2020 issued by the M/o MSME.

Disclaimer: This is computer generated statement, no signature required. Printed from <https://udyamregistration.gov.in> & Date of printing:- 30/10/2023

For any assistance, you may contact:

1. District Industries Centre: KHORDHA (ODISHA)

2. MSME-DFO: CUTTACK (ODISHA)


(L. Rajasekhar)
General Manager
Central Tool Room & Training Centre
Bhubaneswar

Visit : www.msme.gov.in ; www.dcmsme.gov.in ; www.champ

Follow us @minmsme & @msmecha





भारत सरकार
Government of India
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises



Udyam Registration Number : UDYAM-OD-19-0011565

Type of Enterprise	MEDIUM	Major Activity	Manufacturing
Type of Organisation	Society	Name of Enterprise	M/S CENTRAL TOOL ROOM AND TRAINING CENTRE
Owner Name	M/S CENTRAL TOOL ROOM AND TRAINING CENTRE	PAN	AAABC0056G
Do you have GSTIN	Yes	Mobile No.	9437491950
Email Id	cttc@cttc.gov.in	Social Category	General
Gender	Male	Specially Abled(DIVYANG)	No
Date of Incorporation	07/05/1990	Date of Commencement of Production/Business	01/09/1995

Bank Details

Bank Name	IFS Code	Bank Account Number
STATE BANK OF INDIA	SBIN0010133	30284771612

Employment Details

Male	Female	Other	Total
89	3	0	92

Investment in Plant and Machinery OR Equipment (in Rs.)

S.No.	Financial Year	Enterprise Type	Written Down Value (WDV)	Exclusion of cost of Pollution Control, Research & Development and Industrial Safety Devices	Net Investment in Plant and Machinery OR Equipment[(A)-(B)]	Total Turnover (A)	Export Turnover (B)	Net Turnover [(A)-(B)]	Is ITR Filled?	ITR Type
1	2019-20	Medium	263759706.00	0.00	263759706.00	575723491.00	0.00	575723491.00	No	NA

Unit(s) Details

SN	Unit Name	Flat	Building	Village/Town	Block	Road	City	Pin	State	District
1	CENTRAL TOOL ROOM AND TRAINING CENTRE	PLOT NO.B-36	CHANDAKA INDUSTRIAL AREA	BHUBANESWAR	B-36	POST - KIIT(SO)	BHUBANESWAR	751024	ODISHA	KHORDHA
2	CENTRAL TOOL ROOM AND TRAINING WORKSHOP, RAYAGADA	UGMIT CAMPUS	UGMIT CAMPUS	RAYAGADA	UGMIT	RAYAGADA	RAYAGADA	765001	ODISHA	RAYAGADA

Official address of Enterprise

Flat/Door/Block No.	PLOT NO.B-36	Name of Premises/ Building	CHANDAKA INDUSTRIAL AREA
Village/Town	BHUBANESWAR	Block	B-36
Road/Street/Lane	PO-KIIT(SO)	City	BHUBANESWAR
State	ODISHA	District	KHORDHA , Pin : 751024
Mobile	9437491950	Email:	cttc@cttc.gov.in

National Industry Classification Code(S)

S.No.	Nic 2 Digit	Nic 4 Digit	Nic 5 Digit	Activity
1	32 - Other manufacturing	3290 - Other manufacturing n.e.c.	32909 - Manufacture of other articles n.e.c.	Manufacturing
2	85 - Education	8549 - Other education n.e.c.	85499 - Other educational services n.e.c.	Services

Are you interested to get registered on Government e-Market (GeM) Portal

Yes

<https://udyamregistration.gov.in/PrintApplication.aspx?UdyamNo=UDYAM-OD-19-0011565>

UDYAM REGISTRATION CERTIFICATE – Page 2

L. Rajasekhara
(L. Rajasekhara)
General Manager
Central Tool Room & Training Centre
Bhubaneswar



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II – PART -B

- 1) Title: - Redesigning of Equipment/ Paper conversion machinery.
- 2) Objective: - To suitably and economically design the paper conversion machinery, keeping in view the rural areas where it will be utilised.
- 3) Justification: - To suit the need of Gram Udyog Bikash Yojana schemes and standardize the same for use in rural areas.
- 4) The machines are already available in the market but in an upscaled dimension, which would not be suitable for the use of SHGs.
- 5) At present a lot of manufacturers of these machineries are present in the market, but there is not a single supplier/manufacturer that can scale down or build the same machinery in a minimalistic specification which would help in keeping the cost lower and which shall be suitable for the rural areas.
- 6) It is to be designed, and trials to be taken.
- 7) Time schedule: - 1st Redesigning and development of the drawings. In 2nd raw materials and standard items would be procured for manufacturing. 3rd quarter practical demonstration would be given.
- 8) Implementation methodology: -
 - a. Sourcing raw materials as per the detailed prototype drawing.
 - b. Manufacturing using CNC and advanced machineries with high precision.
 - c. Assembly and trials would have to be carried out to overcome shortfalls in the design.
 - d. Field Demonstration to KVIC artisans as per the requirement.
 - e. Collection of feedbacks from the shareholders, artisans related to KVIC.
 - f. As per suggestions and feedback from various sources, design modifications can be undertaken.
 - g. Then final project report shall be submitted to KVIC.
- 9) This will mainly be effective in the rural and remote areas and help the SHGs.
- 10) Redesign and develop the said project according to its use in rural areas.
- 11) The trials/ training may be conducted at locations suggested by KVIC.
- 12) It may be linked to the various Government schemes for rural development.
- 13) CTTC officials will be in touch with Govt. Officials, SHG groups, Artisans.

[Signature]



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- 14) Newly designed prototype for paper conversion along with specification.
- 15) After the trials are successful, it may be executed.

Sr. No.	Item of Expenditure	1 st Year	2 nd Year	3 rd Year	4 th Year	Total
1	Tools & equipment	₹ 5,25,080/-				
2	Travel	₹ 1,50,000/-				
3	Field Training /On Site Programmes	₹ 1,25,000/-				
4	Contingencies	₹ 75,000/-				
5	Overhead cost	₹ 1,50,000/-				
	Total	₹ 10,25,180/-				

Name & Signature of the project coordinator

L. Rajasekhar

Name & Signature of the Head of the Institution /Agency

(L. Rajasekhar)
General Manager
Central Tool Room & Training Centre
Bhubaneswar

Date: 07/03/2024

Place: BHUBANESWAR

SURENDRA ALLU
Sr. Engineer(Design)
CTTC, Bhubaneswar

Recommendation of

State Director / Divisional Director:

Signature

State Director / Divisional Director



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BUDGET BREAK-UP

Sl. No.	Description	Design & Development cost	Raw material cost	Standard items cost	Machining cost	Labour cost
1	Screen printing	55,000 (Semi-Automatic) 85,040 (Automatic)	25510	48830	5700	5000
2	Paper cutter (Motorized)	90,000 (Semi- Automatic)	25000	45000	15000	5000
3	File Master	60,000 (Semi-Automatic)	19500	26850	8650	5000
	TOTAL	2,90,040	70,010	120,680	29,350	15,000

Total cost: ₹5, 25,080

L. Rajasekhar

(L. Rajasekhar)
General Manager
Central Tool Room & Training Centre
Bhubaneswar



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ANNEXURE III

(Ref: S.O. No. 1739, Dt: 29.06.2015)

CERTIFICATE

ENDORSEMENT FROM THE HEAD OF THE INSTITUTION

1. We have gone through the terms and conditions of the S&T grant agreed to abide by and enter into an Agreement/MOU with OCKVI for implementing the S&T scheme.
2. We have neither obtained nor intended to obtain financial assistance from any other agencies, amounting to double funding.
3. We undertake to submit progress reports, statement(s) of accounts, utilization certificates, etc. as required.
4. Certified that Shri **Surendra Allu** is the Project Coordinator of the proposed S&T Project. The Project Coordinator will assume the responsibility of completion of the project.
 - Certified that the hardware, other basic facilities and such other administrative support required as per terms and conditions of the grant, will be extended to the Coordinator(s) throughout the duration of the project.
 - Our agency assumes to undertake the complete financial and other management responsibilities of the project, and will ensure compliance with the terms and conditions laid down.
5. Certified that the Society / Organization will extend benefits of the said S&T projects to the targeted beneficiaries of KVI activities only.
6. If any of the above statements found to be incorrect by the OCKVI at any point of time, the organization takes the responsibility to refund the entire amount released by OCKVI along with 10% interest as per GFR norms.

Date: 07/03/2024

Place: BHUBANESWAR

L. Rajasekhar

Name & Signature of the Head of Agency

(L. Rajasekhar)
General Manager
Central Tool Room & Training Centre
Bhubaneswar

Surendra Allu



Address for correspondence:
Central Tool Room & Training Centre
B-36, C.N.I. Area
Po: KIIT Campus
Bhubaneswar-751024
Contact no: +91-9937464011

E-mail: amaze_suru@yahoo.co.in

Profile

A design engineer with a wide range of experience in the manufacturing industry, Able to work on own initiative and as part of a team. Proven leadership skills involving managing, Developing and motivating teams to achieve their objectives. First-class analytical, design and problem solving skills. Dedicated to maintaining high quality standards. Ability to lead from the front, can devise effective campaign strategy for optimum profit, resourceful, interpersonal communication skill. Adaptable to cross cultural environment

MAJOR ACHIEVEMENTS

- Developed CNC Machines (CNC Milling, CNC Lathe and 5-axis Mill-turn machines)
- Achieved ISO9000 for the production line by developing the quality standard of the product.
- Solved major production process-related problems which temporarily halted work.
- National coordinator of MSME – SAMSUNG Technical school

Qualification

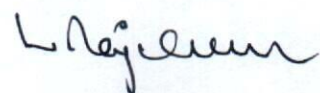
B-Tech (Mechanical)
Diploma in Tool & Die making,
From Central Tool Room& Training Centre, Bhubaneswar.

Mechanical software proficiency: Unigraphics NX4, Mastercam,
AutoCAD, DELCAM.

Relevant Work Experience

More than 25 years of experience in the field of tool design and manufacturing using CAD/CAM software, CNC Machining through CAM, Jig & Fixture Design, and Process Evaluation

Expertise in Tool Design & manufacturing, Process Monitoring and Evaluation, Research and development



Present Position : Sr. Engineer (Design)

Company / Organization : Central Tool Room & Training Centre (CTTC)
(Govt. of India Society: under Ministry of MSME)

Location : Bhubaneswar, Orissa

Work Profile:

Job Description

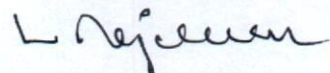
- Managed the production process in CTTC and reported directly to the Senior Manager, Production.
- Managed a team of 20 people, assigning them tasks, and motivating them to meet deadlines.
- Demonstrated the production stages to customers on factory visits.
- Performed Quality Audits at the factory.
- Developing Models; creating different parts' detail and drafting with the help of Unigraphics
- Design of Jigs & fixture
- Design Electrode for Moulds
- Operating and programming CNC Milling m/c, CNC Turning m/c , CNC Edm m/c
- Generate Tool path and CNC Programme for CNC Milling m/c and CNC Turning m/c
- Selection of Cutting tools, Measuring instruments, Fixtures
- Process follow-up and Process Evaluation
- Customer Relations

(i) Core Responsibility

- Time Management in designing, planning and development (Moulds, Press tools , R&D etc)
- Operating and Programming (CNC Machines)
- Electrode designing & Machining
- Final Assembly
- Coordination and Supervision
- Inventory check up
- Process Planning

(ii) Area of Expertise

- Mould Design and Manufacturing
- CNC Machining and Tool Path Generation



(iii) **Project Highlight**

MOULDS

- 24 cavity Moulds for Loblite (U.K.)
- 32 cavity Moulds for Loblite (SHARJAH)
- Moulds of Cistern body, Cistern cover, coupling for Oriplast, (Balasore, Orissa)
- Mould for End piece, BSNL (Orissa)

DIE CASTING DIES

- Magneto flywheel of LML Ltd.
- Flood light housing of Philips India (Kolkata)
- Choke cover of Philips India (Kolkata)
- Ecobay Housing of Philips India (Kolkata)
- 90 Alpower Frame motor of Alstom Ltd. (Kolkata)

PRESS TOOL

- Bending tool, Blanking tool (Naveen Tool, Calcutta)
- 380 mm exhaust fan blade Blanking and forming tools for GEC Alstom India Ltd.

COMPONENTS

- Gimble flexure, (IISU, Trivandrum)
- Reaction wheel Assembly (RWA component, ISRO)
- Mono Propellant Latch Valve Assembly (LPSC, Bangalore)
- Casing for Servo Accelerometer (IISU, Bangalore)
- Bottom cutter, Top cutter, Scrap cutter (TATA MOTORS)
- IRS SADA Assembly
- Piercing punch, Cutting Bush (TATA MOTORS)

Training attended:

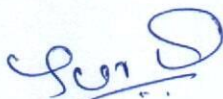
- HRD TRAINING BY SIBM Vice Chancellor, pune
- In house training on ISO9000, OSHAS2000. CTTC, Bhubaneswar.
- Polishing techniques for two weeks at GTTC, Bangalore
- In house Accurate CMM Training for two weeks.
- Plastic processing for two weeks at CIPET, Haldia

L. Rajaram

Personal profile

Date of birth : June 18, 1972.
Nationality : Indian
Religion : Hindu
Gender : Male
Marital status : Married
Language known : English, Oriya, Hindi

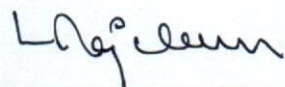
Declaration: The statements furnished above are true and correct to the best of my knowledge and belief.


(Surendra Allu)

Date: 12.08.2023

Overseas exposure:

Nominated by Govt. of India as an expert in Tool & Die Making and deputed to Zimbabwe for a period of six months (Oct 2009 to April 2010). I was responsible to establish Tool & Die Making workshop and train the Zimbabwean professionals.


(L. Rajasekhar)
General Manager
Central Tool Room & Training Centre
Bhubaneswar