

NPC Consultant Professional Profile

I. Personal Information

Name:Kumud Jacob Lugun

Date of Birth: 23-11-1976

Current Position& Domain:Deputy Director, Industrial Engineering

Office Location: Head Office

Languages:Hindi, English

Contact:kj.lugun@npcindia.gov.in: 7678404087

Photo*

II. Professional Summary

20+ year career showcases expertise in Industrial Engineering, Industrial design, ergonomics, and quality management systems (QMS). His work at the National Productivity Council (NPC) demonstrates consistently high performance, including obtaining a patent, leading multiple successful, Manpower Optimization Study, Work Study, MFCA, ISO implementations, and delivering impactful consultancy projects resulting in quantifiable improvements for clients. His contributions at NPC significantly enhanced its presence and productivity, exemplified by successfully implementing virtual industrial visit for APO and developing innovative training programs, and directing of explainer video. Apart from contribution in core discipline his design work also consistently aligns with NPC's mission of promoting productivity and efficiency.

III. Areas of Expertise

Primary Domains:Industrial Design, Product Design, Ergonomics and Work Study

Specialized Skills:

Industry Focus:

Manpower Optimisation Study	CMR Green Technologies Pvt Ltd
Organization Design	PTC India, National Fertilizers Limited, MOIL
MFCA	APO project at SMEs Faridabad, CMR Green Technologies Pvt Ltd
Formulation of Schedule of Rates	Western Coal Fields, Nagpur, Maharashtra
Work Study and Productivity Norms	i. Food Corporation of India, ii. Mushashi Auto Parts Pvt. Ltd., iii. Talbros Group, iv. Omax Group, v. CMR Green Technologies Pvt Ltd
Ergonomics	CMR Green Technologies Pvt Ltd
Industrial Design	i. NPC-CB Logo, ii. Explainer Video for Ministry of Tourism. iii. Prepared Aesthetic outlay for a Report on the Leather Cluster for Environment Group, RD Delhi. iv. Ideated and successfully implemented the Virtual Industrial Visit for APO. v. Developed cost simulation model for estimating the cost of a tourism survey project on Capacity Building for data on DTVs and FTVs in State/UTs for the Ministry of Tourism".
Develop Standard Operating	i. Security Minting & Printing Corporation of India Ltd. (SPMCIL)

Procedures (SOPs)	
Risk management system- ISO 31000	i. Implementing Enterprise-wide for SJVN, Shimla, Himachal Pradesh.

IV. Professional Experience

1) **Current Position:** Deputy Director

Organization: National Productivity Council

Duration: [9th September 2008 - Till date]

Key Responsibilities:

- **Project Conceptualization and Planning:** I conceptualize and plan projects, ensuring that they are well-defined and meet the objectives of the stakeholders.
- **Project Framework and Execution:** I work on conceptualizing the project framework and oversee its execution to ensure that the project is delivered on time and within budget.
- **Team Leadership:** As a team leader, I lead sponsored consultancy projects and assignments, guiding my team to achieve their targets.
- **Stakeholder Engagement:** I conduct meetings and discussions with various stakeholders related to the consultancy assignments to ensure that their needs are met and the project progresses smoothly.
- **Client Management:** I interact with client organizations regarding work in progress and follow up for the release of payment, ensuring that our work is valued and appreciated.
- **Teamwork:** Collaborate with other team members and assist them as directed by the Group Head, in order to achieve our collective goals. Additionally, I share knowledge of productivity tools and techniques with stakeholders to enhance their effectiveness.
- **Training & Webinars:** Plan and execute webinars and workshops on an online platform, in order to disseminate knowledge and expertise to our stakeholders.
- **Office work:** Perform any official work that is assigned to me by the Group Head or other senior officers, as and when required.
- **Strategic role in productivity enhancement**
 - i. **Business Development:** As a part of business development, I prepare compelling project proposals and presentations, respond to Request for Proposals (RFPs), and skillfully negotiate with clients. Additionally, I follow up on earlier project proposals to ensure that our proposals are given due consideration.
- **Specific areas of consultation /expertise**
 - i. Work Study
 - ii. Manpower Optimisation,
 - iii. Organisation Design,
 - iv. Develop Standard Operating Procedures (SOPs)
 - v. Formulation of Schedule of Rates (SOR)
 - vi. Material Flow Cost Accounting (MFCA),
 - vii. Formulation of Schedule of Rates (SOR),
 - viii. 5S Implementation
 - ix. Risk Management ISO 31001: 2011

- x. Quality Management System (QMS) ISO 9001:2015
- **Leadership and team management aspects**
 - i. **IE Group In charge:** Undersigned oversaw IE group under RD, Delhi tentatively from July 2019 to October 2019.
 - ii. Represented NPC at the Honourable Labor Court of India
 - iii. Led team of Industrialists from Uttarakhand Industries Association for an Observational Study Mission on Zero Quality Defect Manufacturing in SMEs from 7-8 December to Tokyo, Japan and Seoul, South Korea.
 - iv. Planned and organized the launch of the Pilot Lean implementation Scheme event.
 - v. Led various studies for the Industrial Engineering Group
- **Key projects and initiatives led**
 - i. Development of model RFP document for all States and UTs of India.
 - ii. Launch of Pilot Lean Competitiveness Scheme (LMCS) for DC-MSME.
 - iii. Envisaged and directed a Virtual Industrial Visit at M/s United Cores Ltd. (SME), Faridabad. The audience was 22 APO countries participants.
 - iv.

2) **Previous Position:**Industrial Designer

Organization:Pentair Water India Pvt. Ltd. : Portfolio Attached as Annexure-“A”

Duration: [01.06.2006–31.08.2008]

Key Responsibilities:

- Industrial Designer for Water Filtration Projects, Plymouth Group, USA
 - i. New Product Design
 - ii. Value Engineering
 - iii. Study future color trends and development of the color palette for Pentair (2008).
 - iv. DFMEA
 - v. Development of CAD on SolidWorks
 - vi. Ergonomics assessment for NPD
- Role
 - i. Leading design projects
 - ii. Develop new concepts
 - iii. Design for manufacturability
 - iv. Rendering realistic concepts
 - v. Interact with engineers for manufacturability assessment
 - vi. Presentation of concepts and buy-in from overseas clients
- Specific areas of work/expertise
 - i. CAD, Creating manufacturing drawings of products and assemblies
 - ii. Ergonomics detailing for new product designs
 - iii. FMEA for processes and designs
 - iv. Prototyping: Detailing for fabrication, casting, 3D printing and model making
- Leadership and team management aspects
 - i. Project lead for
 - Faucet design, Plymouth
 - Pitcher design, Brita, USA

- Bathroom Drinking Water Station, Plymouth, USA
- Colour Trends for the future, Plymouth. USA
- Design of Economic valve cover design, Pentax, USA (Patent Awarded)
- Key projects and initiatives led
 - i. Design of Economic valve cover design, Pentax, USA (Patent Awarded)
 - ii. Bathroom Drinking Water Station, Plymouth, USA: Prototype showcased at 2008 KBIS Show, USA.

V. Major Project Experience in NPC [For each significant project, include:]

1) Project Title:Formulation of Schedule of Rates

Client Name: Western Coal Fields **Type:**PSU**Sector:**Coal

Role:Team Lead

Duration:1 Year

Problem Definition:Updation and revision of schedule of rates for Western Coal Files, Nagpur, Maharashtra.

Recommendations Made: Implementable rates were formulated

Impact Created:

- 72 Operations were covered
- SOR were envisaged for 2 future operations

2) Project Title:Revision of Work Norms and Incentive Scheme

Client Name: Food Corporation of India

Type: PSU,**Sector:** [Food Industry]

Role:Nodal Officer of NPCfor court cases against the findings of study for Food Corporation of India

Duration: 1 Year

Problem Definition: Updation of Work Norms and Incentive Scheme for Handling Workers of FCI.

Recommendations Made:Norms for all operations were developed with upper sealing at 133 rating as per ILO guidelines

Impact Created:

- Saved crores of rupees spent on overpayment due to existing flawed system
- Proper work norms and incentive schemes were established
- Honourable Labour Court, Karkardooma, Delhi appreciated NPC work.

3) Project Title:Productivity Interventions

Client Name: CMR Green Technologies Pvt. Ltd.

Type:Private, **Sector:** [Engineering]

Role:Subject matter expert for Ergonomics and Material Flow Cost Accounting (MFCA)

Duration: 6 months

Problem Definition: Existing work norms were lenient. Therefore the work contained dDevelopment of Work Norms, manpower optimization, ergonomics interventions and MFCA.

Recommendations Made:Norms for all operations as per ILO guidelines

Impact Created:

- Proper work norms are established
- Ergonomics assessment showed gaps in the infrastructure of CMR that require interventions.
- MFCA pre-assessment has identified proper quantity center.

VI. Educational Background

Highest Degree:

- **Degree:** Masters in Industrial design (M.DES)
- **Institution:** Indian Institute of Technology Delhi (IITD), Type: [Full Time]
- **Year:** [2006]
- **Specialization:** [New Product Design (NPD)]

Graduation Degree:

- **Degree:** Production and Industrial Engineering
- **Institution:** Delhi College of Engineering (DCE), **Type:** [Full Time]
- **Year:** [2001]
- **Specialization:** [Production Technology and Industrial Engineering]

Additional Professional Qualifications:

- [List relevant certifications]
 - PG Diploma in CAD, SolidWorks, CATIA
- [Professional memberships]
 - Toy Association of India (Informal Group on Knowledge Sharing)
 - Empanelled with NID Scheme as Industrial Designer
- [Specialized training]
 - Deep sea underwater survival, fire safety, helicopter underwater escape training certificate- BOSIET, OPITO and HUET, Valid upto 2027.
- P G Diploma in Computer-Aided Design (CAD)- SolidWorks (Dassault Systemes)

VII. Research and Publications

Recent Publications:

- NA

Speaking Engagements:

- Training Programme on ISO 31000 Apex Manual and Internal Auditor Training programme for from 26.09.22 to 29.09.2022
- The CII-NPC business meeting was held on August 29th, 2019.
- Webinar on Work Study & Ergonomics- As faculty and coordinator on June 30th , 2020.

- Project No. 21-CP-22-GE-WSP-B, APO Workshop on Waste Management in Manufacturing SMEs through MFCA and Lean (24-26 Nov. 2021)
 - Evolution of the GLEAN Framework from an APO Demonstration Project
 - Virtual Industrial Visit at M/s United Cores Ltd. (SME), Faridabad.

Awards and Recognition

- Patent: 1 Industrial design patent (USPTO No.
- Visiting Jury member at UPES for Industrial Design
- Empanelled with NID as an Industrial Design expert
- Participate in external award committees like "Pradhan Mantri Shram Awards" on behalf of NPC.

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that I shall be responsible for any willful misstatement described herein.

Date: _____

[Signature of Employee]

Place: _____

[Name]

Profile Update History

Last Updated: [Date]

Next Review Due: [Date]

***Photo Specifications**

- Professional headshot
- High resolution (minimum 300 DPI)
- Business formal attire
- Neutral background
- Recent (within last 12 months)

Enclosed: Annexure – “A”



DESIGN PORTFOLIO

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LEISURE TRANSPORTATION

DUI



PROTECTIVE COVER

ECONOLID



USPTO Application: #20080128149

TABLE TOP WATER FILTRATION



PITCHER



ONLINE FILTRATION

FAUCET



INTERESTS

Sketching, Painting, Charcoal Art, Miniature Model making, Product photography and reading books.