

## **[Nikita Kumari] |**

[Qtr. No. C-39, Central Colony |  
Makoli More, Phusro,

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## **[Curriculum Vitae]**

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### **Education**

**Rajkamal Saraswati Vidya Mandir, Dhanbad – [10<sup>th</sup> , 85.8%] – Passed out -2005]**

**[Rajkamal Saraswati Vidya Mandir, Dhanbad – [12<sup>th</sup> , 83.8%] – Passed out -2007]**

**[B.I.T SINDRI] – [B.Tech (Production Engineering), 85.2%] [2008-2012 ]**

**Grand Topper in B.I.T Sindri in Final semester.**

**Overall Production Branch Topper.**

### **Skills & Abilities**

**CATIA V5R20- 3d Modeling, Drafting, Assembly**

**Unigraphics NX 11.0- 3d Modeling, Drafting, Assembly**

**NX I-deas- Drafting**

**Altair Hypermesh**

**MS-Office**

### **Experience**

**[Manager] – [Tata Hitachi Construction Machinery Pvt. Ltd [ From 01.07.15 to 25.10.16]**

#### **Role:**

- Monitoring end to end multiple project operations from planning till execution for the new product development of TMX20 Super as per NPD guidelines by meeting timelines .
- Modeling & drafting of 3-leg metallic canopy, Vibration analysis of metallic canopy in Altair hyperworks.
- Based on ergonomics new operator seat implemented.
- Key role in communization of Air intake system in TMX 20 Super which results in cost reduction.

- Engaged in decal styling of TMX20 Super.
- Planning and coordinating entire product development including requirement analysis from marketing end, finalizing parts specifications, designing, verification and validation.
- Tailoring the component to fit for machine.
- Engaged in Proto sample of TMX20 Super for launch in EXCON'15
- Identifying areas of bottlenecks and nonconforming products; implementing steps to Overcome customer complaint issues.

**[Assistant Manager] — [Tata Hitachi Construction Machinery Pvt. Ltd] - [From 1.10.13 to 30.06.15]**

**Role:**

- Steering the successful rollout of projects related to Mini hydraulic excavator (TMX20-2) with capabilities of defining scope ,setting timelines, analyzing requirements ,prioritizing tasks.
- Part Modeling , Drafting & assemblies of 2 Ton mini-excavator(TM20-2) using Unigraphics NX 11.0 & NX I-deas.
- Preparation of BOM, Detailed Drawings, Assembly Drawings etc.
- Monitoring end to end multiple project operations from planning till final execution for the new part development.
- Evaluating field failures of 2 Ton mini hydraulic excavator and implementing countermeasures to overcome customer complaints through the application of troubleshooting tools like Root cause analysis ,Failure mode ,effect and criticality analysis (FMECA) etc.
- Implemented various Quality improvement projects in TMX20-2 like elimination of pump failure at delivery port by introducing SAE flange type port in place of threaded ports, elimination of structural failure in Boom , Elimination of bucket tooth point failure etc.
- Implemented numerous Cost Reduction projects in 2 Ton mini hydraulic excavator like introduction of single plate in boom bottom plate to ease in manufacturability,

conversion of sheet metal console box with Fiber reinforced plastic(FRP) console box etc.

- Worked on making ISO-14000 document for mini hydraulic excavator.
- Stress Analysis of major components like Boom, Bucket, Arm, Track frame, Canopy done in mini hydraulic excavator through FEA (Finite Element Analysis) using Altair Hypermesh at different boundary conditions.
- Performed technical calculations for replacing copper based Radiator & oil cooler assembly with aluminium made radiator & oil cooler assembly.
- Performed air flow velocity measurement for new air filter in mini hydraulic excavator.
- Steered efforts towards successful conducting trials for enhancing oil drain interval from 2500 HMR to 4000 HMR based on Hitachi standard.
- Performed activities from planning stage till proto fitment trial of new control valve (3 manual operated and 6 pilot operated) in place of control valve (5 manual operated and 4 pilot operated).

**[Graduate Engineer Trainee] — [Tata Hitachi Construction Machinery Pvt. Ltd.] – [From 01.10.12 to 31.10.13]**

[Worked as a GET in Design & development department of Tata Hitachi Construction Machinery Pvt. Ltd, Jamshedpur]

**Communication**

- Attended Regional Managers meet at THCM, Kharagpur Plant to give presentation on TMX20-2 Quality improvements in 2014.
- Attended Regional Managers meet at THCM, Kharagpur Plant to give presentation on TMX20 field issues and their countermeasures in 2015.
- Given Presentation in Quality Workshop event held in THCM, Jamshedpur.

**Leadership**

**Hold Convenor post in ECO CLUB of B.I.T SINDRI**

## **Awards**

- **Won First prize in Quality workshop & customer issues held in Tata Hitachi Construction Company Pvt. Ltd, Jamshedpur Plant.**
- **Won Twice time Kaamyabi Award in THCM for implementation of Quality improvement projects.**
- **Received first prize in TATA Motors inter badminton Challenge Trophy.**
- **Received B.K Sahay award of Prize:10,000/- for overall topper in Production Engineering Branch.**