

## BIO-DATA



1. Name and full correspondence address: - KAMAL MANKARI  
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HYDERABAD, GACHIBOWLI, HYDERABAD
2. Email(s) and contact number(s):- [mankari.kamal.1802@gmail.com](mailto:mankari.kamal.1802@gmail.com) (Ph: 8374312100)
3. Date of Birth: - 12-5-1985
4. Gender: - Male
5. Academic Qualification

	Degree	year	subject	University/ intuition
1	Diploma	2006	Metallurgical Engineering	Government Polytechnic College Vijayawada
2	B.tech	2010	Metallurgy and Materials Engineering	MGIT-JNTU Hyderabad
3	M.tech	2013	Materials Engineering	University of Hyderabad
4	PhD	2019	Materials Engineering	University of Hyderabad

6. PhD thesis title, Guide's Name, Institute/Organization/University, Year of Award.

PhD thesis title: Stress corrosion cracking of AISI 321 SS welds in solar thermal power plant: Failure analysis and appropriate surface engineering measures

Guide Name:- Dr. Swati Ghosh Acharyya

University:- University of Hyderabad

Year of award: - 2019

7. Work experience

S.No	Positions held	Name of Institution	To	From	Pay Scale
1	RA	University of Hyderabad	Jan 2019	Nov 2019	15000
2	Project Engineer	NIT Warangal	Nov 2018	Aug 2019	36400

8. Publications

S.No	Author (S)	Tite	Name of Journal	Volume	page	year
1	Kamal mankari, Swati Ghosh Acharyya	Failure of AISI 321 stainless steel welded pipes in solar thermal power plants	Engineering Failure Analysis	86	33-43	2018
2	Sunil kumar pandu, Kamal mankari, Swati Ghosh Acharyya	Distinguishing effect of buffing on residual stress distribution and susceptibility of austenitic stainless steel to stress corrosion cracking'	Materials Research Proceedings	6	139-144	2018
3	Kamal mankari, Swati Ghosh Acharyya	Development of stress corrosion cracking resistant welds of 321 stainless steel by simple surface engineering	Applied Surface Science	426	944-950	2017

## 9. Technical Skills

- I am expert in metallography, TEM sample preparation (sample polishing, twin jet polishing) including very brittle samples
- Skilled at operating HITACHI S3400 Scanning Electron Microscope (SEM) with EDS, FEI Nova NanoSEM 450 Electron Microscope (FESEM) with EDS and EBSD, other methods such as DSC, XRD and OLYMPUS optical microscopy.
- Strong working knowledge of mechanical testing (hardness, tensile, fatigue, etc).
- Possess good knowledge of computers.

## 10. Computer Skills

- Microsoft Windows Installation, Microsoft word, Excel, Power Point, Internet and
- Origin, Corel Draw and GATAN.

## 11. Professional Activities

- Participated in the metallography contest in 66th annual technical meeting held in Jamshedpur which was conducted by IIM during 18-19 Nov 2012
- Participated in the national workshop on orientation microscopy in SEM and TEM organized by EMSI, central zone & DMRL, Hyderabad during 5th – 6th Nov 2015.

## 12. Research area

Acoustic Emission Sensors based Corrosion Fatigue Crack detection and Customized Machine Learning based Monitoring and Prediction for High Strength Steel.