



1. Name: **DR. THONANGI GOURI CHARAN**

2. Date of Birth: 16.11.1961

3. Current Position and Address:
(with E-mail & Phone no.) Senior Principal Scientist
Head, Coal Preparation Division
CSIR-Central Institute of Mining ^ Fuel Research
(Digwadih Campus) PO: FRI – Dhanbad 828108

4. Educational qualifications: (Graduation and above)

Sl. No.	Degree/ Certificate	Year of Passing	University/ Institute	Subjects
I	B.Sc	1982	Andhra	Mineral Beneficiation
li	M.A.Sc	1985	Gulbarga	Mineral Processing
lii	M.S	1992	NITS-Pilani	S & T
iv.	M.Tech	1996	ISM	Mineral Engineering
v.	PhD	2015	VSK-Bellary	Mineral Processing

5. Work experience

Designation	Institution/company	From	To	Nature of work
I Mineral Engineer	FACOR	October'1985	Jan'1987	Plant incharge
li Scientific Pool Officer	RRL, Bhubaneswar	Feb;1987	Jam'1989	R & D
iii. Scientist	CFRI/CIMFR	Feb;1989	Continue	R & D

6. Area of specialization: Mineral and Coal Beneficiation

7. Honors/Awards received:

- **'Sandur Gold Medal'** from Gulbarga University for securing highest marks among successful candidates at M.A.Sc., Mineral Processing in the year 1985
- **CHEMCON Best Paper Award** on Grinding Aids at Indian Chemical Engineering Congress, Madras, 1991.
- **Sadananda Memorial Award** by The Institution of Engineers, Orissa State Centre at its 46th Annual Technical Session held on 20th Feb'2005.
- **IIME Best Paper Award** on Coal Preparation at MPT-2007, Mumbai, February'2007.
- **'Coal Preparation Innovation Award – 2014'** for outstanding innovative work in the area of coal preparation was awarded by Coal Preparation Society of India.
- **R.P.Bhatnagar Award (2014-15)** for outstanding contribution on the area of Mineral beneficiation was awarded by Mining, Geological and Metallurgical Institute of India
- **IIME Coal Beneficiation Award (2014-15)** for outstanding contribution in the area of Coal Beneficiation was awarded by Indian Institute of Mineral Engineers.

8. Fellowships/Scholarships:

9. No. of Research Publications:

- Papers in journals: 25
- In conference proceedings: 60
- Invited/key-note addresses: 10
- List of best 05 publications:

Sl. No	Authors	Title of the Article	Name of Journal	Vol No. Issue, Pages, Year
1.	T. Gouri Charan U.S. Chattopadhyay K.M.P. Singh S,K,Kabiraj D.D.Haldar	Pilot-Scale Baum Jig Washing For Beneficiation Of A High-Ash Indian Noncoking Coal	International Journal of Coal Preparation and Utilization	29: 130–139, 2010
2.	T. Gouri Charan U.S. Chattopadhyay K.M.P. Singh, S.K. Kabiraj D.D. Haldar	Beneficiation of high-ash, Indian non-coking coal by dry jigging	Minerals & Metallurgical Processing	Vol. 28, No. 1 Feb' 2011
3.	K.M.P. Singh, G Udayabhanu & T. Gouri Charan	Comparative Studies on the settling behavior of Indian non-coking coal fines by standard Jar test and Instrument	International Journal of Coal Preparation and Utilization	Volume 34, Issue 2, 2014, pp 65-74
4	T. Gouri Charan, V. K. Kalyani, K. K. Sharma Lalan Kumar Sweta Kumari & Amalendu Sinha	Use of an Artificial Neural Network to Evaluate the Oleo-Flotation Process to Treat Coal Fines	International Journal of Coal Preparation and Utilization	Vol. 34: 229–238, May'2014
5.	U.S.Chattopadhyay V. K. Kalyani T. Gouri Charan R.Venugopal	Application of Response Surface Methodology in Effective Recovery of Settling Pond Coal Fines by Froth Flotation	International Journal of Coal Preparation and Utilization	Vol.35:206–215, 2015

10. Number of Books authored/edited: Nil

11. (a) No. of Patents granted/applied for:

(b) Technologies developed, Licensed and/or commercialized: Nil

12. Foreign visits: Poland, Australia and Turkey

13. Details of Professional memberships:

Life Member : Coal Preparation Society of India
Life Member : Indian Institute of Mineral Engineers
Life Member : Mining, Geological and Metallurgical Institute
Life member : Indian Institute of Metals

14 . Major contributions: (Max. 150 words)

- ❖ Carried out detailed washability studies on coal samples collected from all the major coking and non coking coal sources (BCCL, ECL, CCL, SECL, NCL, WCL and SCCL) and developed various correlations for understanding the cleaning potentialities of the coals.
- ❖ Based on the detailed studies carried out on all the major coking and non coking coals conceptual flow sheets were developed for meeting the requirements of different end users.
- ❖ Detailed R&D studies on the LVC coals of Eastern Sector, Jharia Coalfields were carried out (Laboratory/Bench Scale/Pilot Plant) and a flow sheet was developed.
- ❖ The process flow sheet developed for the LVC coals of Eastern Sector, of JCF when tested for the coals of Western sector, it did not respond. Extensive laboratory, bench and Pilot scale studies on different coals of the Western Sector were carried out and a new flow sheet was developed. The developed flow sheet was tested by the coals provided by CMPDI and RDCIS and clean coal in bulk quantity at different ash levels was generated and characterization tests at RDCIS, Ranchi proved that these coals are having good metallurgical properties.

15. Technologies and Products/ Services : Nil

- (i) Developed:
- (ii) Licensed:
- (iii) Commercialized:

16. Designs and Prototype Developed: Nil

17. Honours and awards won for technological contributions or sociological impact of R&D:

Signature

