

ER Sheet Data Entry Form					
Name of Organization : CENTRAL WATER AND POWER RESEARCH STATION, PUNE					
Employee No. : E1667					
Service	Central Civil Service	Designation	Scientist 'B'	Sub Cadre	Group -A Gazetted
Joining Date :Aug. 11, 2021					
Name Details					
Title	First Name	Middle Name	Surname		
Dr.	RAGHUCHANDRA		GARIMELLA	Initials	Dr. RCG
Identity Card No. :					
Sex	MALE	Date Of Birth (DD-MM-YYYY)	08-08-1989	Date of Retirement	31-08-2049
Community		UR	Religion	HINDU	
Father's Name		UMAMAHESWARA SADA SIVA SASTRY GARIMELLA			
Birth Details					
<i>Birth Place</i>	KODURUPADU	<i>Birth State/UT</i>	ANDHRA PRADESH	<i>Nationality</i>	INDIAN
<i>Birth District</i>	EAST GODAVARI	<i>Mother Tongue</i>	TELUGU		
<i>Domicile</i>	AMALAPURAM	<i>Physically Handicap Status</i>	NO		
<i>Blood Group</i>	O ^{+VE}	<i>Identification Marks</i>	A mole just below the right shoulder		
Marital Details					
<i>Marital Status</i>	MARRIED	<i>Spouse Name</i>	SURYA GAYATHRI		
<i>Spouse Nationality</i>	INDIAN				
Joining Details					
<i>Source of Recruitment</i>	UPSC	<i>Joining Date</i>	11-08-2021	<i>Retirement Date</i>	31-08-2049
<i>Departmental Examination Details (If applicable) --NA--</i>					
	<i>Level</i>	<i>Year</i>	<i>Rank</i>		
1					
<i>Remarks (if any)</i>					
Languages known					
	Name of Language	Read	Write	Speak	
Indian Languages Known					
1	Telugu	✓	✓	✓	
2	Hindi	✓	✓	✓	
3	Sanskrit	✓	✓	--	
4	Kannada	✓	--	✓	
5	Marathi	✓	✓	--	
Foreign LanguagesKnown					
1	English (both UK and US)	✓	✓	✓	

Details of deputation (if applicable)--NA--

Name of the Office	Post held at that time in parent office	Name of post (selected for deputation)	Period of deputation	
			Since	From

Details of Foreign Visit

Sl. No.	Place of Visit	Date of visit	Post held at that time	Whether it is a personal or official visit	Details of visit
1.	Nepal	Jun. 24-29, 2019	Private Employee	Personal	Rock Structure Observation
2.	Hong Kong	Jun. 15, 2018 and Jun. 21, 2018	Private Employee	Personal	Transition
3.	Macau	Jun. 19-20, 2018	Private Employee	Personal	Mono Rail System, Macau (ResearchObservation)
4.	China	Jun. 15-18, 2018	Private Employee	Personal	Automated Railway System, Schenzen (ResearchObservation)

Transfer/Posting Detail (if applicable)--NA--

Place	Period of posting	
	Since	From

Qualification (Use extra photocopy sheets for multi qualifications, experience, training, awards details)			
Qualification	Discipline		Specialization 1
Doctor of Philosophy (Ph.D.)	Mining Engineering		Signal Processing
Year	Division	CGPA	Specialization 2
2018	--	10.0 out of 10.0	Seismic Energy
Institution	University	Place	Country
National Institute of Technology Karnataka, Surathkal	National Institute of Technology Karnataka, Surathkal	Surathkal, Karnataka	India

Qualification (Use extra photocopy sheets for multi qualifications, experience, training, awards details)			
Qualification	Discipline		Specialization 1
Master of Technology (M.Tech.)	Electrical and Electronics Engineering		Power Electronics
Year	Division	% Marks	Specialization 2
2012	First Class with Distinction (University Top)	83.71	--
Institution	University	Place	Country
BVC Engineering College	JNTU Kakinada	Andhra Pradesh	India

Qualification (Use extra photocopy sheets for multi qualifications, experience, training, awards details)			
Qualification	Discipline		Specialization 1
Bachelor of Technology (B.Tech.)	Engineering		Electrical
Year	Division	% Marks	Specialization 2
2010	First Class with Distinction	72.57	Electronics
Institution	University	Place	Country
BVC Institute of Technology and Science	JNTU Kakinada	Andhra Pradesh	India

Qualification (Use extra photocopy sheets for multi qualifications, experience, training, awards details)			
Qualification	Discipline		Specialization 1
Master of Business Administration (M.B.A.)	Management (Part-time Course)		Operations Management
Year	Division	CGPA	Specialization 2
2014	Second Class	6.44	General Management
Institution	University	Place	Country
Gandhi Institute of Technology and Management (GITAM)	Gandhi Institute of Technology and Management (GITAM), Visakhapatnam	Andhra Pradesh	India

Experience (11 Years in Academics – Associate Professor in Private Engineering College)	
Type of Posting	Level
Direct Recruitment	Group 'A' Gazetted
Designation	Present Position
Scientist 'B'	Scientist 'B'
Ministry	Department
MINISTRY OF JAL SHAKTI	DEPARTMENT OF WATER RESOURCES, RD & GR
Office	Place
CWPRS, KHADAKWASALA, PUNE	PUNE

Experience Subject		Period of Posting	
Major	Minor	From	To
Electrical Engineering	Electronics Engineering (Signal Processing)	2021	Till Date

Note:-Refer the Annexure to fill above Major, Minor Subjects and below given training subject (**minimum 1 week & above**)

Training			
Training Year	Training Name		Training Subject
2019	FDP (Faculty Development Programme)		Advance Power Electronics and Control
Level	Institute Name, Place	Field Visit Country	Field Visit Place (within India)
--	IIT (Indian Institute of Technology) Roorkee	--	--
Sponsoring Authority	Period of Training		Result
	From	To	Qualified
			(in Weeks)

AICTE	Jan-2019	Mar-2019	8	Yes
<i>Training Year</i>				
<i>Training Name</i>		<i>Training Subject</i>		
2018	FDP (Faculty Development Programme)	Student Centric Outcome Based Teaching – Learning Practices		
<i>Level</i>	<i>Institute Name, Place</i>	<i>Field Visit Country</i>	<i>Field Visit Place (within India)</i>	
--	Osmania University	--	Hyderabad	
<i>Sponsoring Authority</i>	<i>Period of Training</i>		<i>Duration</i>	<i>Result</i>
	<i>From</i>	<i>To</i>	<i>(in Weeks)</i>	<i>Qualified</i>
MCET and Vivekananda Institute of Human Excellence	June 25	June 30	1	Yes
<i>Training Year</i>				
<i>Training Name</i>		<i>Training Subject</i>		
2013	Workshop		Analog Electronics	
<i>Level</i>	<i>Institute Name, Place</i>	<i>Field Visit Country</i>	<i>Field Visit Place (within India)</i>	
--	IIT (Indian Institute of Technology) Kharagpur	--	Rajahmundry	
<i>Sponsoring Authority</i>	<i>Period of Training</i>		<i>Duration</i>	<i>Result</i>
	<i>From</i>	<i>To</i>	<i>(in Weeks)</i>	<i>Qualified</i>
IIT Kharagpur	June 04	June 14	2	Yes
<i>Training Year</i>				
<i>Training Name</i>		<i>Training Subject</i>		
2012	SDP (Staff Development Program)	Power System Operation & Control with MATLAB Simulation		
<i>Level</i>	<i>Institute Name, Place</i>	<i>Field Visit Country</i>	<i>Field Visit Place (within India)</i>	
--	BVCITS	--	Amalapuram	
<i>Sponsoring Authority</i>	<i>Period of Training</i>		<i>Duration</i>	<i>Result</i>
	<i>From</i>	<i>To</i>	<i>(in Weeks)</i>	<i>Qualified</i>
AICTE	June 28	July 11	2	Yes

Awards/PublicationsAnnexure-I				
Type of Activity:		Academic	Non Academic	
Activity Area		Activity Subject		Activity Title
Day	Month	Year	Activity Description/Remarks	Level

Note: (i) Concerned CCS Officer is responsible for the correctness of information sent through ER Sheet Performa.

(ii) Subject to verification by the concerned administrative authorities.

Date : **Aug. 26, 2021**

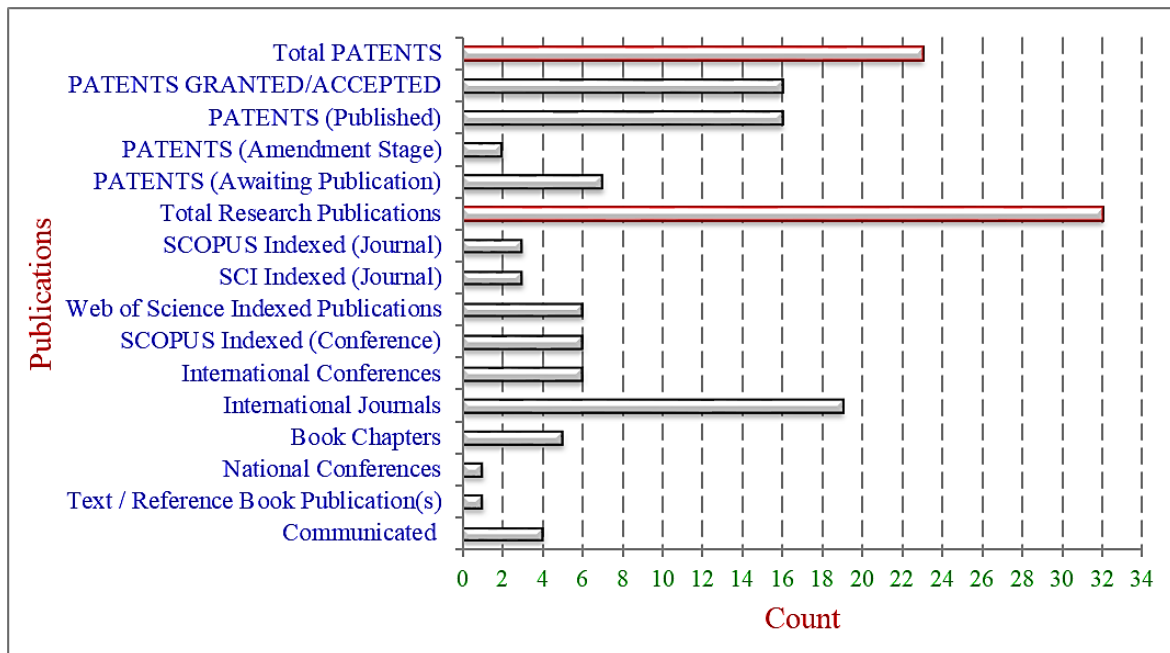
Place : **Pune**

Information checked and verified – by

Signature of Officer

Section Officer		Ministry/ Department	
E-mail id		Room NO.	Building Name:
Phone NO.		Wing No.	

List of Patents and Research Publications



PATENTS(In Reverse Chronological Order)

1. Electrical motorized handicapped vehicle(**Australian**).
2. VidyutDvichakrika - A hybrid electric bicycle(**Australian**).
3. Areca Nut Robot Harvester(**Australian**).
4. Recorrido Dream, Explore, Discover(**Australian**).
5. Unmanned Aerial Vehicle (UAV) based sanitizing system(**Australian**).
6. BITTI ASTITA NAGARATA NISTANTRI SAMVIDHA – A wall mounted smart wiring system(**Australian**).
7. ABHIGYNAPARIPATHAPHALAKA – A smart switch board(**Indian**).
8. VIDYUTA DVICAKRAVAHANA – An electric bicycle (**Indian**).
9. ABHIGNA VIDYUT SAMPUTAH – A smart electric extension box (**Indian**).
10. VIDYUTHA TRAYA CHAKRA VAHANA – A hybrid electrical tricycle (**Indian**).
11. PARINATA VIDYUT SAMYUTANAM – An advanced electric extension box (**Australian**).
12. WIRELESS MONITORING OF PV MODULE CHARACTERISTICS (**Australian**).
13. PUNARUPAYOGA DHANDA DIPA VYAVASTHA – A SYSTEM THAT ILLUMINATES FAILED FLUORESCENT TUBE LIGHT WITHOUT A CHOKE OR BALLAST (**Australian**).
14. PIEZOGEN – A SYSTEM TO TAP ELECTRICAL ENERGY FROM GROUND VIBRATIONS CAUSED DUE TO BLASTING OPERATIONS IN MINES (**Australian**).
15. ELECTRONIC LIQUID DISPENSER WITH TEMPERATURE DETECTOR (**Indian Design**).

16. MICROCONTROLLER OPERATED AUTOMATIC ELECTRIC LOCK CONTROLLED GERMICIDE UNIT (**Australian**).
17. UNMANNED AERIAL VEHICLE BASED FIRE EXTINGUISHER (**Australian**).
18. REMOTE CONTROLLED AIR VEHICLE BASED SANITIZING SYSTEM WITH PAYLOAD CARRIER (**Indian**).
19. MICROCONTROLLER BASED INFINITESIMAL NEUTRALIZED INFECTIOUS CIDE (M.I.N.I. CIDE) (**Indian**).
20. Sensor Operated Automatic Potion (S.O.A.P.) DISPENSER (**Australian**).
21. DRONEBOT – A HEXACOPTER BASED PERSONAL ASSISTANT (**Australian**).
22. PORTABLE HYBRID POWER BANK (**Australian**).
23. SOLAR POWERED HYBRID ENERGY BANK (**Indian**).

REFERENCE BOOK

1. Rock Blasting (**National Institute of Technology Karnataka, ISBN: 978-93-5361-241-2**).

BOOK CHAPTERS

1. Design and development of solar-powered hybrid energy bank (**IEEE River**).
2. Extraction of Electricity from Blast induced Ground Vibration Waves – Case Study (**Springer**).
3. TLBO Algorithm based Optimized PID controller to Analyse Small Hydropower Plant (**Academica Press**).
4. Image Processing based Assessment of Blast Performance in Opencast Mines – Case Studies (**McGraw-Hill Education**).
5. Tapping of Electrical Energy from Ground Vibrations caused due to Blasting – An Innovation (**Allied Publishers**).

JOURNAL PUBLICATIONS

1. Image processing based assessment of explosive energy distribution in mine blast - case study (**Mili Publications, Web of Science and ESCI Indexed**).
2. Development of dust concentration model using artificial neural networks (**Blue Eyes Intelligence Engineering and Sciences Publication, SCOPUS Indexed**).
3. Numerical Modelling Based Impact of Ground Vibrations (**i-manager's Journal on Civil Engineering, UGC Approved**).
4. Numerical Modelling Based Assessment of Ground Vibrations (**Elsevier BV, SCI Indexed**).
5. A Resonant DC- DC Converter for Induction Motor Drive Application (**Grenze International Journal of Engineering and Technology**).
6. A Novel Approach for Reactive Power Compensation in Wind Farms Using GSC & RSC Control Algorithms (**Grenze International Journal of Engineering and Technology**).

7. Application of TLBO Algorithm Optimized PID controller to Analyse Small Hydropower Plant (**Grenze International Journal of Engineering and Technology**).
8. Assessment of MPPT based photovoltaic system: A Critical Review (**International Journals of Power Electronics Controllers and Converters**).
9. Multifunctional Shunt Hybrid Power Filter and Thyristor Controlled Reactor for Distributed Generation Integration and Power Quality Improvement (**International Journals of Power Electronics Controllers and Converters**).
10. Application of High Speed Videography and Digital Image Processing Software to Assess Performance of Blasts In Opencast Mines: A Case Study (**International Journal of Geological and Geotechnical Engineering**).
11. Generation of electrical energy from blast induced vibrations (**International Journal of Analysis of Electrical Machines**).
12. Performance Analysis of Grid Connected Hybrid AC/DC Microgrid Using Various Renewable Energy Source (**International Journal of Electrical Machines & Drives**).
13. Modelling and Control of Higher Rating DC Motor with GA Based Optimized PID Controller (**International Journal of Microelectronics and Digital Integrated Circuits**).
14. Ground vibrations & Water Borne Shock Waves caused due to Underwater Blasting in Ports – A Case Study (**International Journal of Chemical, Environmental & Biological Sciences (IJCEBS)**).
15. Under Water Blasting for Rock Dredging and Protection of Structures: A Case Study (**International Journal of Geological and Geotechnical Engineering**).
16. Genetic Algorithm Approach for the Position Control of Permanent Magnetic Synchronous Machine (**International Journal of Power Electronics Controllers and Converters**).
17. Role of Geological Discontinuities and Delay Timing in Blasting – Analysis by High Speed Videography (**International Journal of Earth Sciences and Engineering, SCOPUS Indexed**).
18. Application of High-Speed Videography in Assessing the Performance of Blasts (**International Journal of Geological and Geotechnical Engineering**).
19. Piezo-Gen - An Approach to Generate Electricity from Vibrations (**Elsevier, SCI & SCOPUS Indexed**).

CONFERENCE PUBLICATIONS

1. An approach to tap electrical energy from ground vibrations (**American Institute of Physics, Web of Science and SCOPUS Indexed**).
2. Simulation Studies on Multilayer Coatings for Solar Absorptance (**American Institute of Physics, Web of Science and SCOPUS Indexed**).
3. Development of Empirical Model to Predict Particulate Matter (**American Institute of Physics, Web of Science and SCOPUS Indexed**).
4. Signal Processing Computation based Seismic Energy Estimation of Blast induced Ground Vibration Waves (**Bagged IEEE Best Paper Award, Web of Science and SCOPUS Indexed**).

5. Assessment of Seismic Energy obtained from Blast induced Ground Vibrations using Signal Processing Computation Techniques (**IEEE, Web of Science and SCOPUS Indexed**).
6. Ground vibrations & Water Borne Shock Waves caused due to Underwater Blasting in Ports – A Case Study (**International Conference on Civil, Agricultural & Environmental Engineering, Hong Kong**).
7. Modeling and PID Control of BLDC Motor with the help of Genetic Algorithm (**IEEE, Web of Science and SCOPUS Indexed**).

INTERNATIONAL CONFERENCES ORGANIZED

1. 2nd International Conference on Paradigms in Engineering and Technology, ICPET-2018, Hyderabad, Telangana, India.
2. 3rd International Conference on Paradigms in Engineering and Technology, ICPET-2019, Hyderabad, Telangana, India.
3. Chaired – Eighth International Conference on Advances in Computer Engineering, ACE-2018, Trivandrum, Kerala, India.

Editorial Board Memberships

1. **Editor-in-Chief** for Journal of **Modeling, Analysis and Simulation (SCOPUS Indexed)**, *Clausius Scientific Press Inc.*, ISSN: 2516-3035 (weblink: <https://www.clausiuspress.com/journal/JMAS/editorialBoard.html>).
2. **Reviewer** for **REM - International Engineering Journal (SCIE Indexed)** (weblink: <https://mc04.manuscriptcentral.com/remi-scielo>).
3. **Reviewer** for **IEEE - Access (SCI Indexed)** (weblink: <https://mc.manuscriptcentral.com/ieee-access>).
4. **Reviewer** for **IET - Signal Processing (SCI Indexed)** (weblink: <https://www.iet-review.rivervalleytechnologies.com/journal/spr>).
5. **Editorial board member cum reviewer** for **Earthquake Engineering and Engineering Vibration Journal, Springer (SCIE Indexed)** (weblink: <https://mc03.manuscriptcentral.com/eeev>).
6. **Editorial board member** for **SCIREA Journal of Electrics, Communication, Science Research Association** (weblink: <http://www.scirea.org/journal/EditorialBoard?JournalID=51000#8480>).
7. **Editorial board member** for **SCIREA Journal of Electrical Engineering, Science Research Association** (weblink: <http://www.scirea.org/journal/EditorialBoard?JournalID=47000#8480>).
8. **Editorial board member** for **American Journal of Electrical Power and Energy Systems (EPES), Science Publishing Group**, ISSN Print: 2326-912X, ISSN Online:2326-9200
(weblink:<http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=165>).
9. **Editorial board member cum reviewer** for *Publons*.

10. **Editorial board member** for Advances in Science, Technology and Engineering Systems Journal (ASTESJ) (**Thomson Reuters Indexed**), ISSN: 2415-6698.
11. **Editorial board member** for *STM Journals*.
12. **Editorial board member** for *JournalsPub*.

Awards / Responsibilities / Achievements

1. **Bagged Best Paper Award** for the paper entitled “Image Processing based assessment of explosive energy distribution in mine blast – case study” in International Conference on Computer Vision, High Performance Computing, Smart Devices and Networks (CHSN-2020) from **JNTU Kakinada University** during Dec. 28-29, 2020.
2. Served as a **Resource Person** for one day National Seminar on **Intellectual Property Rights** during Dec. 16, 2020 organised by R.R.D.S Government Degree College, AdikaviNannaya University.
3. Served as a **Resource Person** for a **Guest Lecture on Introduction to Intellectual Property Rights and Protection (IPR) and Patents** during Sept. 04, 2020 organised by Telangana Social Welfare Residential Degree College for Women, Jangoan.
4. Served as a **Resource Person** for a **Students’ Workshop on Patent – A pathway to earn from your ideas** during Sept. 16, 2019 at Indian Institute of Management and Commerce, Hyderabad, Telangana, India.
5. Invited for an **FM Radio Interview on Intellectual Property Rights and Protection** during Mar. 13, 2019. Program was broadcasted on Mar. 15, 2019 between 4.30 PM and 5.30 PM in **Radio Vishnu 90.4 CR**, Bhimavaram.
6. Served as a **Chief Guest of Honour (Resource Person)** for **UGC Sponsored National Workshop on Intellectual Property Rights** during Mar. 13-14, 2019 at DNR College (Autonomous), Bhimavaram, Andhra Pradesh, India.
7. **Elected as a Ph.D. Representative unanimously in Students’ Council Elections** during 2016-17 at **National Institute of Technology Karnataka, Surathkal**.
8. **Bagged Best IEEE Paper Award** for the paper entitled “Signal processing computation based seismic energy estimation of blast induced ground vibration waves” in IEEE – International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER) during Aug. 13-14, 2016 whose ISBN No.: 978-1-5090-1623-5/16.
9. Received **National MHRD Fellowship for 38 months** during Ph.D. Research (2014-17).