

| ER Sheet Data Entry Form | | | | | | |
|--|--------------------------|-----------------------------------|--------------------------------|---------------------------|-----------|--|
| Name of Organization : CENTRAL WATER AND POWER RESEARCH STATION, PUNE | | | | | | |
| Employee No. : E1174 | | | | | | |
| Service | CCS | Designation | Scientist 'C' | Sub Cadre | --- | |
| Joining Date :21.01.1999 | | | | | | |
| Name Details | | | | | | |
| Title | First Name | Middle Name | Surname | Initials | | |
| Dr. | Sanjay | Anandrao | Burele | | SAB | |
| Identity Card No. :2480 | | | | | | |
| Sex | Male | Date Of Birth (DD-MM-YYYY) | 10-02-1968 | Date of Retirement | 02-2028 | |
| Community | Teli (OBC) | Religion | Hindu | | | |
| Father's Name | Anandrao Dajibaji Burele | | | | | |
| Birth Details | | | | | | |
| Birth Place | Nagpur | Birth State/UT | Maharashtra | Nationality | Indian | |
| Birth District | Nagpur | Mother Tongue | Marathi | | | |
| Domicile | Nagpur, Maharashtra | Physically Handicap Status | No | | | |
| Blood Group | O Rh+ | Identification Marks | Mole on left-hand small finger | | | |
| Marital Details | | | | | | |
| Marital Status | Married | Spouse Name | Sandhya Sanjay Burele | | | |
| Spouse Nationality | Indian | | | | | |
| Joining Details | | | | | | |
| Source of Recruitment | CWPRS | Joining Date | 21/1/1999 | Retirement Date | 29/2/2028 | |
| Departmental Examination Details (If applicable) | | | | | | |
| Level | | Year | | Rank | | |
| Not Applicable | | | | | | |
| Remarks (if any) | | | | | | |
| Languages known | | | | | | |
| | Name of Language | Read | Write | Speak | | |
| Indian Languages Known | 1 Marathi | yes | yes | yes | | |
| | 2 Hindi | yes | yes | yes | | |
| Foreign Languages Known | English | yes | yes | yes | | |

Details of deputation (if applicable)

| Name of the Office | Post held at that time in parent office | Name of post (selected for deputation) | Period of deputation | |
|---------------------------|--|---|-----------------------------|------|
| -- | -- | -- | Since | From |
| Not Applicable | | | | |

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 |
|-----------------------|----------------|---------------|------------------------|--|------------------|
| Not Applicable | | | | | |

Transfer/Posting Detail (if applicable)

| Place | Period of posting | |
|-----------------------|-------------------|------|
| | Since | From |
| Not Applicable | | |

| Qualification (Use extra photocopy sheets for multi qualifications, experience, training, awards details) | | | |
|--|--|--|---|
| Qualification | Discipline | | Specialization 1 |
| B.E. | Civil Engineering | | - |
| Year | Division | CGPA/ % Marks | Specialization 2 |
| 1993 | First Class | 63% | |
| Institution | University | Place | Country |
| YCCE, Nagpur | Nagpur University | Nagpur | India |
| Qualification | Discipline | | Specialization 1 |
| M-Tech | Water Resources Development & Management | | River Engineering |
| Year | Division | CGPA/ % Marks | Specialization 2 |
| 2010 | Ist | 7.9/10 | Bed level variation in braided river-River Kosi |
| Institution | University | Place | Country |
| Indian Institute of Technology, Roorkee | Indian Institute of Technology, Roorkee | Roorkee | India |
| Qualification | Discipline | | Specialization 1 |
| Ph.D | Water Resources Development & Management | | River Engineering |
| Year | Division | CGPA/ % Marks | Specialization 2 |
| 2014 | | Course work CPI 8.9/10 | Braided river channelization-River Kosi |
| Institution | University | Place | Country |
| Indian Institute of Technology, Roorkee | Indian Institute of Technology, Roorkee | Roorkee | India |
| Experience | | | |
| Type of Posting | | Level | |
| Regular (Permanent) | | Group 'A' | |
| Designation | | Present Position | |
| Scientist 'B' | | Scientist 'B' | |
| Ministry | | Department | |
| Ministry of Jal Shakti (Ministry of Water Resources, River Development and Ganga Rejuvenation) | | Geotechnical Engineering-I(Rock Mechanics) | |
| Office | | Place | |
| Central Water and Power Research Station | | Khadakwasla, Pune | |
| Experience Subject | | Period of Posting | |
| Major | Minor | From | To |
| Geotechnical Engineering-1 | Rock Mechanics | 11.11.2015 | Till date |

Experience**Assistant Engineer**

Design Unit, Irrigation Dept., Maharashtra State, Nagpur

Period of position: - 11.07.1996 to 20.01.1999

Design of following structure

- Village Road Bridge of lower Wardha project, of left bank main canal at RD-570.
- Village road bridge of Gosikhurd project, of left bank main canal no. 1, at RD-5420.
- Major district road bridge of Gosikhurd project, of right bank main canal, at RD-18345.
- Cross regulator cum head regulator of Gosikhurd project, of left bank main canal, at RD-11130.
- Village road bridge of lower Wardha project, of left bank main canal at RD-22750.
- Drop slab culvert of lower Wardha project, of left bank main canal at RD-18340.
- Village road bridge of lower Wardha project, of left bank main canal at RD-21840.
- Major district road bridge of Gosikhurd project, of left bank main canal, at RD-25735.

Research Assistant

Central Water & Power Research Station, Pune

Period of position: - 21.01.99 to 05.05.2009

- Collection and analysis of bed material samples from proposed road and rail bridge, Nirmali, Bihar. (2002)
- Model studies for proposed Rail and Road bridge on Kosi river, Nirmali, Bihar.(2003)
- Model studies for Flood protection measures for western embankment of Kosi river (2004).
- Model studies for extension of guide bunds of proposed Rail and Road bridge on Kosi river, Nirmali, Bihar.(2004)
- Model studies for revised design of proposed Rail and Road bridge on Kosi river, Nirmali, Bihar.(2005)
- Model studies for proposed Srisailam weir across Krishna river, Andhra Pradesh. (2006)

Assistant Research Officer

Central Water & Power Research Station, Pune

Period of position: - 06.05.2009 to 28.12.2011

- Model studies for protection measures for Kosi afflux bunds and flood embankments, Bihar.(2009)
- Desk studies for assessing the hydraulic parameters of seven cross drainage works on the service road adjacent to Pune-Solapur express highway, Maharashtra.(2011)

Scientist 'B'

Central Water & Power Research Station, Pune

Period of position: - 29.12.2011 to 02.02.2021

- Model studies for protection works for Kosi afflux bunds and flood embankments. (2012)
- Report on site inspection of Pravara river reach from Ozar pickup weir to Bhandardara dam, Maharashtra. (2014)
- Field studies for determination of properties of masonry of Temghar Dam, Maharashtra. (2016)
- Consultancy service for providing curtain grouting from chainage 5100 to 5330m on upstream side of Dyke No. 1, Hidkal Dam, Karnataka. (2017)
- Interim Report on Slope Stability analysis of Banda Branch canal of Tillari, Dist. Sindhudurg, Maharashtra. (2017)
- Interim Report on Slope Stability analysis between Ch. 14615 to 15060m of left bank canal, Arjuna medium irrigation project, Ratnagiri, Maharashtra. (2018)
- Studies for determining In-situ strength parameters of stone masonry for Massanjore dam, Jharkhand (2019)
- Inspection and determination of permeability, for providing the remedial measures to stop the seepage at Chandas-Wathoda MI Project, Dist. Amravati, Maharashtra (2020)
- Slope Stability Analysis of Rock fall at Panshet hydro power generation station, Dist.

- Pune, Maharashtra (2020)
- Analysis of Slope Stability of Hill near Insuli Border Check Post, Banda, Sawantwadi, Dist. Sindhudurg, Maharashtra (2020)
 - Inspection and test of Permeability for providing the remedial measures to stop the seepage at Songaon Shivni earthen dam, dist. Amravati, Maharashtra (2020)
 - Takes part in Loksabha election 2019 as a Zonal officer and successfully completed.

Scientist 'C'

Central Water & Power Research Station, Pune

Period of position: - 29.12.2011 to till date

- Studies for determining In-situ strength parameters of stone masonry for Walwan dam, TATA POWER COMPANY, Lonavla, District, Maharashtra (2021)
- Studies for determining In-situ strength parameters of stone masonry for Shirota dam, TATA POWER COMPANY, Lonavla, District, Maharashtra (2021)
- Studies for determining In-situ strength parameters of stone masonry for Bhatsa dam, Dist. Thane, Maharashtra (2021)

Training

| Training Year | Training Name | Training Subject | | |
|------------------------------------|-----------------------|---------------------|----------------------------------|-----------|
| List enclosed as Annexure-I | | | | |
| Level | Institute Name, Place | Field Visit Country | Field Visit Place (within India) | |
| | | | | |
| Sponsoring Authority | Period of Training | | Duration | Result |
| | From | To | (in Weeks) | Qualified |

Awards/Publications

| Type of Activity: | | Academic | Non Academic |
|-------------------------------------|------------------|----------|----------------|
| Activity Area | Activity Subject | | Activity Title |
| Day | Month | Year | Level |
| List enclosed as Annexure-II | | | |

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 : 13.09.2021

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. | | |

Training/Lecture series attended

- 1) National workshop on sediment disposal techniques, during 19th & 20th November 2002, conducted by CW & PRS, Pune.
- 2) Lecture series conducted by senior officer of River Engineering group during 1st March 2005 5th March 2005 at CWPRS, Pune.
- 3) Correction of irrigation system deficiency for improved canal irrigation, during 28th January to 02nd February 2008, conducted by Dept. of Water Resources & Management, IIT, Roorkee, sponsored by Ministry of Water Resources, CAD & WM Wing.
- 4) Creative Art & Design in Technical Education, on 23rd February 2008, conducted by Dept. of Architecture & Planning, IIT, Roorkee.
- 5) Free webinar on "Dam and network safety assurance" conducted by Shri A. B. Pandya, Secretary General, ICID & Ex-chairman, Central Water Commission on 10 Sept. 2020.
- 6) Short Course on "Tunneling" organized by Mverman at Le Meridien, New Delhi, India during 26 - 29 February 2020.
- 7) Workshop on Tunneling Asia 2019 organized by organized by Tunneling Association of India in conjunction with the International Tunnelling and Underground Space Association (ITA) during 25-26 Feb. 2019 in Mumbai.

Published Lecture Notes in Training Programmes Proceedings

- 1) "Location, layout of bridges and barrages".
- 2) "Hydraulic modeling techniques for river".
- 3) "Estimation of In-situ Material Properties in Gravity Dams by Flat Jack Test"

Lecture delivered

- 1) Lecture delivered in a short course on River Training and Management, CW&PRS, Pune 22 – 24 January 2012 "Location, layout of bridges and barrages".
- 2) Lecture delivered in a short course on River Training and Management, CW&PRS, Pune 29 – 31 January 2014 "Hydraulic modeling techniques for river".
- 3) Lecture delivered at CWPRS, Pune, on 17.11.2017 conducted by TMC "Spur a tool for protecting bank"
- 4) Lecture delivered at Zeal College of Engineering, Narhe, Pune on 16.02.2018 "Location, Alignment and Layout of Barrage/Bridge"
- 5) Lecture delivered at Bharti Vidhyapeeth, College of Engineering, Lavale, Pune on 20.03.2018
- 6) Lecture delivered at CWPRS, Pune, on 25.04.2018 conducted by TMC "Slope stability studies by using mathematical model "
- 7) Lecture delivered as a key note speaker in National Conference on Recent Advance in Engineering Science at Bharti Vidyapeeth College of Engineering, Lavale, Pune on 27.03.2019 "Spur a tool for protecting embankment"
- 8) Lecture delivered at Training course on Review and monitoring structural safety on hydraulic structure 20th- 21st June 2019, CWPRS Pune " Estimation of In-situ Material Properties in Gravity Dams by Flat Jack Test"
- 9) Lecture delivered at CWPRS, Pune, on 21.06.2019 conducted by TMC "Curtain Grouting a Tool Used for Stopping the Seepage from an Existing Dam"
- 10) Lecture delivered at Training course on Structural Safety Auditing and Rehabilitation of Hydraulic Structures" 14-15 December 2020, CWPRS Pune "Estimation of In-situ Material Properties in Gravity Dams by Flat Jack Test"

Field visit to various sites

- 1) 30.10.2001 to 01.11.2001 - Visited to Birpur, Bihar for attending meeting of Kosi High Level Committee and site inspection of river Kosi

- 2) 14.05.2002 to 25.05.2002 - Visited to Kosi Barrage, Birpur, Bihar for collection of bed sample, regarding model studies for proposed construction of Rail & Road bridge on river Kosi at Nirmali, Bihar.
- 3) 09.07.2003 to 19.07.2003 - Visited to Tungabhadra Dam, Karnataka for rating of Tungabhadra left bank canal, at chainage 28 & 46 mile.
- 4) 03.05.2005 to 08.05.2005 - Visited to office of National Highway Authority of India, New Delhi, regarding additional model studies for proposed construction of Rail & Road bridge on river Kosi at Nirmali, Bihar.
- 5) 03.09.2011 - Visited to Pune - Solapur express highway, to understand overall situation of proposed/constructed bridges.
- 6) 12.11.2011 to 28.11.2011 - Participated in International Trade Fair - 2011 held at Pragati Maidan, New Delhi for demonstrating the models to public.
- 7) 03.03.2012 to 06.03.2012 - Visited to Rail & Road bridge on river Kosi at Nirmali, Bihar, regarding inspection of flow attack on approach embankment to rail bridge.
- 8) 23.04.2012 to 27.04.2012 - Visited to WRD, Patna and Kosi barrage Birpur, Bihar for discussion at Patna and collection of data for the model studies of Kosi river.
- 9) 15.11.2013 to 20.11.2013 - Visited to Birpur, Bihar for attending meeting of Kosi High Level Committee and site inspection of river Kosi.
- 10) 09.01.2014 to 11.01.2014 - Visited to Pravara river and Bhandardara dam regarding inspection and discussion on abundant intake wells in the bank adjacent to the river.

11) Visit to following site for deciding scope of study and for remedial measure for seepage problem (2017-18)

- a) Songaon-Shivni dam, Dist. Amravati, Maharashtra
- b) Chandas-Wathoda dam, Dist. Amravati, Maharashtra
- c) Hagaribommanahalli Ichup dam, Dist. Bellary, Karnataka

12) Visit to following site for deciding scope of study for remedial measure to stabilize the slope(2017-18)

- a) Tillari Irrigation Project, Tillari, Dist. Sindhudurg, Maharashtra
- b) Arjuna Medium Irrigation Project, Ratnagiri, Maharashtra
- c) Insuli check post, Dist. Sindhudurg, Maharashtra
- d) Panshet hydro power generation station, Dist. Pune, Maharashtra.

13) Visit to following site for deciding scope of study for determining the properties of dam by using Flat Jack Test (2017-19)

- a) Shirota dam, Lonavla, Maharashtra
- b) Walwan dam, Lonavla, Maharashtra
- c) Temghar dam, Maharashtra
- d) Massenjori dam, West Bengal

Additional details

- a) On 18.09.2020 **Honorable Prime minister Respected Shri Narendra Modiji** has inaugurated Rail Mahasetu Bridge on River Kosi, its model studies were conducted by me, under the guidance of Shri S. D. Kulkarni, SRO, Shri M. S. Shitole, JD
- b) Received **Appreciation letter** from project authority:- Slope Stability analysis of Banda Branch canal of Tillari, Dist. Sindhudurg, Maharashtra (2017)
- c) Assisted Dr. K. R. Dhawan, Sc 'D' for conducting **training course** on Dam safety aspects under DRIP for 30 Nos Engineers from Tamil Naidu Government.
- d) Assisted Dr. K. R. Dhawan, Sc 'D' for celebrating **Swachh Pakhwada 2017** from period 16.04. 2016 to March 2017

LIST OF RESEARCH PAPERS PUBLISHED

- 1) **Sanjay A. Burele**, D. N. Deshmukh, Dr. Nayan Sharma, Dr. Ashish Pande. "Prediction of bed level in river using HEC-RAS 4, Kosi river, A case study" in National Conference on Hydraulic, Water Resources, Coastal and Environmental Engineering, Hydro-2009, CWPRS, Pune. Dec 17-18, 2009, pp. 137-147.
- 2) **S. A. Burele**, M. N. Singh. "Study for locating bridge on braided river" Proc Ninth International Conference on Hydro-Science and Engineering, IIT, Madras, Chennai, India, Aug 2-5, 2010, pp. 1074-1084
- 3) **Sanjay A. Burele**, Mahanand Singh, Ishwer D. Gupta, Zulfeqar Ahmad, Nayan Sharma and Pradeep Garg. "Remote Sensing satellite communication based operation/regulation of gates of hydraulic structure" in Journal of the Instrument society of India, Vol. 41, no.02, June 2011, pp. 84-87
- 4) **Sanjay A. Burele**, Ishwer D. Gupta, Mahanand Singh, Nayan Sharma and Zulfeqar Ahmad. "Experimental study on performance of spurs" in ISH Journal of Hydraulic Engineering. Vol. 18, no.03, September 2012, pp. 152-161
- 5) **Sanjay A. Burele**. "Model studies for evolving hydraulic design of bridge across braided river" in Journal of Indian Water Resources Society, Vol. 33, no.03, July 2013, pp. 12-19
- 6) **Sanjay A. Burele**, Nayan Sharma, Zulfeqar Ahmad and Ishwer D. Gupta. "Numerical Simulation-Optimization for channelization of river Kosi" in International Journal of Scientific Engineering and Technology, Vol. 03, Issue no.09, September 2014, pp. 1149-1155
- 7) **Sanjay A. Burele**, Nayan Sharma, Z. Ahmad and I. D. Gupta. "Morphological changes of river Kosi from Chatra to Nirmali" in Nineteenth International Conference on Hydraulic, Water Resources and Environmental Engineering, MANIT, Bhopal, Dec 18-20, 2014, pp. 109-123.
- 8) **Sanjay A. Burele**, Nayan Sharma, Z. Ahmad and I. D. Gupta. "Use of artificial Intelligence for sediment rating and gauge-discharge curve" in Nineteenth International Conference on Hydraulic, Water Resources and Environmental Engineering, Hydro-2014. MANIT, Bhopal, Dec 18-20, 2014, pp. 347-36.
- 9) **Sanjay A. Burele**, Nayan Sharma, Z. Ahmad and I. D. Gupta. "Mathematical model to study channelization by lowering the river bed through excavation" 22nd International Conference on Hydraulic, Water Resources and Environmental Engineering, Hydro-2015, IIT, Roorkee, India.
- 10) **Sanjay A. Burele**, "Model Studies for deciding the position of worst loop guide bund on braided river" Nineteenth International Conference on Hydraulic, Water Resources and Environmental Engineering Hydro-2016 21st International Conference on Hydraulic, Water Resources and Environmental Engineering, CW&PRS, Pune, India.
- 11) **Sanjay A. Burele**, Nayan Sharma, Z. Ahmad and I. D. Gupta. "Sanjay A. Burele, Nayan Sharma, Z. Ahmad and I. D. Gupta. "Hydraulic Model Studies for Channelization of River Kosi by Using T-type Shape Spurs" Hydro-2017 International, L.D. College of Engineering Ahmedabad, India. Page 1083-1095.
- 12) **Sanjay A. Burele**, Pravuram Panda, Gaurav Singarkar, Keshav Rai Dhawan, "Reservoir Slope Stability of Bunakha Hydraulic Project by Finite Element Method" in International Journal of Advance Engineering and Research Development, Volume 5 Issue 12 December-2018.
- 13) **Sanjay A. Burele**, Nayan Sharma, Z. Ahmad and I. D. Gupta. "Hydraulic model studies for channelization of river Kosi for a reach from Chatra to Kosi barrage using Hockey Stick shape spur" International Journal of Advance Engineering and Research Development, Volume 5, Issue-12, December-2018
- 14) K. R. Dhawan, **Sanjay A. Burele**, Khalil Bagwan. "Curtain Grouting a Tool Used for Stopping the Seepage from an Existing Dam" in Indian Geotechnical Journal, Springer Publisher, March 2019
- 15) **Sanjay A. Burele**, Khalil Bagwan. "Slope stability of hillock near Banda branch canal using GTS NX Software - A case study" in Conference, ICOLD 2020
- 16) **Sanjay A. Burele**, G. C. Singarkar, Pravuram Panda, K.A.M. Bagwan & Rizwan Ali "Studies to determine in-situ strength parameters of stone masonry of Massanjore Dam, Jharkhand" in Hydro 2021 International at SVNIT Surat, Gujarat, During December 23-25, 2021 (Proposed)

- 17) **Sanjay A. Burele**, G. C. Singarkar, Pravuram Panda, K.A.M. Bagwan & Rizwan Ali
"Assessment of seepage through subsoil of Hidkal dam, Karnataka and remedial measures" in Hydro 2021 International at SVNIT Surat, Gujarat, During December 23-25, 2021(Proposed)