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|  | Name of Staff: | Sanjay Gaikwad |
|  | Proposed Position: |  |
|  | **Employer:** | PricewaterhouseCoopers Pvt. Ltd. |
|  | **Date of birth:** | 14/12/1962 | Nationality | Indian |
|  | **Education:** |
| **School, college and/or University Attended** | **Degree/certificate or other specialized education obtained** | **Date Obtained** |
| Pune University (Govt. College of Engineering Pune) | B.E. (Instrumentation with First Class) | 1988 |
|  | **Professional certification or Membership of professional associations:** |  |
|  | **Other relevant training** | None  |
|  | **Countries of work experience:** | India, Nepal, USA |
|  | **Languages known:** |
| **Languages** | **Speaking** | **Reading** | **Writing** |
| English | Excellent | Excellent | Excellent |
| Hindi | Excellent | Excellent | Excellent |
| Marathi  | Excellent | Excellent | Excellent |
|  | **Employment record:** |
| **From** | **To** | **Name of employer** | **Position held** |
| May 2020 | Till date | PricewaterhouseCoopers India | Instrumentation Expert |
| Jan 2019 | May 2019 | IPE Global Bangalore(Karnataka BWSSB) | Electrical & Instrumentation Expert |
| Apr 2017 | Jan 2019 | Siddhi Consulting Engineers Pvt. Ltd, PuneIPE Global Bangalore(KUWSDB) | Associated ConsultantSCADA Expert Consultant |
| Jan 2014 | Mar 2017 | Dital-V Automation Pvt. Ltd(Ayoki Nepal Project) | Consultant (Instrumentation) |
| Sep 2009 | Dec 2014 | Biogenx Hyderabad | Sr Tech Lead |
|  | Jul 2006 | Aug 2009 | Patni Computer, Pune | Sr Software Specialist (USA, JAPAN) |
|  | Jan 1993 | Jun 2006 | Consultancy, Pune | Consultant  |
|  | Aug 1988 | Dec 1992 | Data Pro Pvt Ltd, Pune | Project Engineer |
| 1. **Work undertaken that best illustrates relevant experience and capability to handle the tasks assigned:**
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|  | **Name ofthe assignment or project:** Project Management Unit (PMU) in the Rural Drinking Water & Sanitation Department (RDW&SD) Karnataka (Spread across the entire state)**Year:**Aug 2019 **Location:**Karnataka, India **Client:**Rural Drinking Water & Sanitation Department (RDW&SD) **Activities performed:** Review of all instrumentation and Electrical GA Drawing, All Water meter specifications, SLD drawing, P&I drawing, HT,LT, MCC panel, Load calculation, Design calculations, SCADA , PLC ,cable calculation, All Electrical Components, Testing ,Implementation and monitoring, site visit, etc.  |
|  | **Name ofthe assignment or project:** Sewage treatment Plant :210 MLD, 35 MLD, 10 MLD, 5 MLD Bangalore city, WTP:30 MLD,50MLD SCADA implementation.(TUMKUR City)**Year:**2019- may 2020**Location:**Karnataka, India **Client:**BWSSB karanataka, Bangalore: Triveni consultant, Ayyappa Consultant, Erotek Consultant.Yokogawa contractor.**Activities performed:**210 MLD ,20MLD ,10 MLD,5 MLD STP & WPT: Documentation, checking designing, Electrical Documentations, Instrumentation Documentations, SCDAD Documentations, Programming, Testing O&M etc. (BWSSB & KUWS&DB) |
|  | **Name of assignment or project:**Water Treatment Plant(1.7 Years)**Year:** Apri 2017 – Jan 2019**Location:**Bangalore and Telangana Hyderabad, India**Client:**KUWS&DB**Main project features:**Water Treatment Plant1. Tumkur 80mld Karanatawith SCADA(KUWS&DB) and 120 MLD WTP at Sircilla (Karimnagar Segment)2.95 MLD WTP at Mancherial (Adilabad Segment) 3. 70 MLD WTP at (Mahabubnagar segment) – 4. Krishna Drinking water supply schème5. Godavari Water supply scheme – Telangana**Positions held**: Consultant (Instrumentation, Electrical, SCADA)**Activities performed:*** Assist to Erection and Commissioning of Instrumentation of Water Treatment Plant., Designing Electrical, instruments, Mechanical, making all Electrical power designing and distribution and control panel with motor control, motor parameter and soft starter installation etc.
* Control valve, pressure, flow making drawing and installation and site supervision and selection of all WTP components and vender discussion. PLC configuration for Raw water pumping, level, pressure, flow, motor with Ladder and logic diagram. SCADA implementation. Vendor discussion, Purchase involvement.
* Specifications of subprojects having Electrical/ instrumentation component.
* Involvement in Oversee contract management and performance monitoring of the contractor, Assist in Procurement, Reports from Contractor, Risk solving, Problem solving with Team and contractor.

Inspection for Emerson Control Valve for Butterfly Valve, Slues Valve for Pumping station and WTP. |
|  | **Name of assignment or project:**Cement Plant(2.1 Years)**Year:**Jan 2015 – March 2017 **Location:**Nepal**Client:**Ghorai, Sarvabottam, Nepal**Position held:**Consultant (Instrumentation, Electrical, SCADA)**Activities performed:** In charge:Actively involved in the design engineering &project, executionErection and Commissioning of Instrumentation on the system and Design Documentation and PLC &SCADA implementation and project management and Site Testing and site visit. |
|  | **Name of assignment or project**: WTP and process plant(KrishnaDrinking water supply schème) (2.5 Years)**Year:**Aug 2004 – Jun 2006**Location:**Hyderabad, India**Client**: Krishna Drinking water supply schème(45MLD)(HYD)**Positions held:**Consultant**Activities performed:*** Krishna Drinking water supply scheme (45MLD)(HYD) (2.5 Years)
* It has WTP designing with CIVIL, Electrical, Mechanical, Instrumentation work. Making all Electrical power designing and distribution and control panel with motor control, motor parameter and soft starter installation etc. Layout of piping, control valve, pressure, flow making drawing and installation and site supervision and selection of all WTP components and vender discussion. PLC configuration for Raw water pumping level, pressure, flow, motor with Ladder and logic diagram.
* WTP instrumentation transmitter, Flow, Pressure, Level, worked on specification and vendor meeting, Purchase components schedules, Monitoring work, Report generation. SCADA implementation and documentation. IO modules, RS 232 & RS 422 communication implementation. Water analysis. Purchase involvement.
* Project Management, Daily monitoring, Helping to mechanical and Electrical work. Safety rules was implemented for work.
* Back wash implemented and control through the PLC programming and O/M services and Mechanical & Instrumentation component replacement.

Inspection of Emerson Control valve for Global Valve, Butterfly Valve, Three Type Way Valve etc. Pneumatic Hydraulic and Electrical actuators  |
|  | **Name of assignment or project:**70 MLD WTP at Manyamkonda (Mahbūbnagar segment) (3.6 years )**Year:**Jan 2001 – Aug 2004**Location:**Hyderabad, India**Client:**Manyamkonda (Mahabubnagar segment)**Positions held:**Consultant**Activities performed:*** 70 MLD WTP at ManyamkondaMahabubnagar (3.6 Years)
* It has WTP designing with CIVIL, Electrical, Mechanical, Instrumentation work. Making all Electrical power designing and distribution and control panel with motor control, motor parameter and soft starter installation etc. Layout of piping, control valve, pressure, flow making drawing and installation and site supervision and selection of all WTP components and vender discussion. PLC configuration for Raw water pumping, level, pressure, flow, motor with Ladder and logic diagram. SCADA implementation and documentation. IO modules, RS 232 & RS 422 communication implementation. Water analysis
* WTP instrumentation transmitter, Flow, Pressure, Level, worked on specification and vendor meeting, Purchase components schedules, Monitoring work, Report generation. Purchase involvement
* Project Management, Daily monitoring, Helping to mechanical and Electrical work. Safety rules was implemented for work.

Back wash implemented and control through the PLC programming and O/M services and Mechanical & Instrumentation component replacement |
|  | **Name of assignment or project:**50 MLD WTP at Pali Jodhpur **Year:**Aug 1995 – Jan 2001**Location:**Jodhpur, India**Client:**Pali Jodhpur, India**Positions held:**Consultant**Activities performed:*** It has WTP designing with CIVIL, Electrical, Mechanical, Instrumentation work. Making all Electrical power designing and distribution and control panel with motor control, motor parameter and soft starter installation etc. Layout of piping, control valve, pressure, flow making drawing and installation and site supervision and selection of all WTP components and vender discussion. PLC configuration for Raw water pumping, level, pressure, flow, motor with Ladder and logic diagram. SCADA implementation and documentation. IO modules, RTU communication implementation. Water analysis, Purchase involvement.
* WTP instrumentation transmitter, Flow, Pressure, Level, worked on specification and vendor meeting, Purchase components schedules, Monitoring work, Report generation.
* Project Management, Daily monitoring, Helping to mechanical and Electrical work. Safety rules were implemented for work.

Back wash implemented and control through the PLC programming and O/M services and Mechanical& Instrumentation component replacement  |
|  | **Name of assignment or project:**Chemical process Plant for FTP and STP (3 years)**Year:**Jul 1995 to Aug 1998**Location:**Khopali, Maharashtra India**Client:**Chemical process Plant(DIICHI)**Positions held:**Consultant**Activities performed:*** This is chemical product producing company for paint manufacturing, Oil product. For chemical Mixing and water process and fluent water treatment before disposable into river.
* Reactor parameter controlling, Chemical reaction controlling, flow and level and thermal cycle controlling. This is expansion work.
* Mechanical work for designing reactor with sensor and Mixing process motor and monitoring, inspection report. Instrumentation components are like Level, Temp, Flow, pressure, Pumps, mixing ration, PLC communication with SCADA and control panel designing. Logic, ladder, interlock, hook-up, Alarm list, Mimic display, Hooter,
* Actively involved in the design engineering & project execution / management activities for the field Instrumentation (local / electronic instruments and installation items), Control Automation & Safety Systems (PLC/DCS/ESD/F&G/SCADA) and their multi-disciplinary interfaces right from the conceptualization & budgeting stage to the commissioning stage including their inspection, testing at vendor’s place and at plant site as well as their overall project planning, scheduling, reporting, controlling & progress reviews. Implementation of project and O/M service
* Inspection of NuTechcontrol Valve for Butterfly Valve, Global Valve.
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|  | **Name of assignment or project:**Paper Factory WTP and process plant (Padamji paper mil) (2.5 Years)**Year:**Jan 1993 – Jul 1995**Location:** India**Client:**Paper Factory WTP and process plant (Padamji paper mil)**Positions held:**Consultant**Activities performed:*** WTP /FTP 100 KLD for Paper Mil (2.5 Years)
* Paper manufacturing company are using water processing for paper quality and chemical process on it. Here Civil, Mechanical, Electrical, Instrumentation work. Experience in design of equipment size, rating, designing documentations, Installation, designing of PLC room, Controlling chemical dosing and waste water recycle and used FTP processed, Flow, Level,Temp, Compressor, Chemical tank control etc of WTP/FTP,Pumping  Stations& water supply mechanical equipment. Ladder diagram, PLC programming, O/M and Training program etc.
* Configuration of PLC and IO modules.
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|  | **Name of assignment or project:**Coal Handing, WTP Plant(4.3 Years)**Year:**Aug 1988 – Dec 1992**Location:**India**Client:**Devipowergas, Orissa Coal Maine**Positions held:**Project Engineer **Activities performed:*** Designing WTP 30 MLD for Bhosari Pune , Designing and water treatment plant with instrumentation drawing, Piping size designing and equipment installation, Bill of material, List of input to PLC, Ladder diagram, Control Panel designing, hookup diagram, Selection of Level, pressure, flow, water analysis sensor, Motor selection for Raw water and Pumping station. Mechanical drawing. Programming in PLC and Testing.
* Coal Mine Handling at Orissa :( 2 Years and 11 Months)
* Coal handling from 3 Km and transport to another location using Conveyer Belt control and Two station data transmission.
* Instrumentation and Mechanical diagram, Motor and conveyer belt selection, PLC documentation, Control panel designing, Electrical components selection, Electrical Control valves, Inspection, Testing and O/M

Design the Control & Safety System (PLC) activities in projects, systems of different manufacturers, suppliers like Foxboro, ABB, Rockwell Automation (Allen Bradley), documents like logic diagram, ladder diagram, sitevisit, inspection reports etc. |
|  | Do you currently or have you ever worked for the World Bank Group including any of the following types of appointments: Regular, term, ETC, ETT, STC, STT, JPA, or JPO? If yes, please provide details, including start/end dates of appointment. | No |
|  | Certification:I, the undersigned, certify that (1) to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience; (2) that I am available for the assignment for which I am proposed; and (3) that I am proposed only by one Offeror and under one proposal.I understand that any wilful misstatement or misrepresentation herein may lead to my disqualification or removal from the selected team undertaking the assignment. |
| Signature of staff member | Date: 16-June-2020 |