Sardar Vallabhbhai National Institute of Technology, Surat
Department of Civil Engineering

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No. DoCE/PVT/SRF/Advertisement/ 5010 /2024-25 Date: 29/01/2025

Department of Civil Engineering is carrying out an externally funded research project, titled "***Impact of Climate Change on Water Resources and River Morpho-dynamics of Narmada Basin***" sponsored by the Department of Water Resources, River Development and Ganga Rejuvenation (DoWR, RD & GR), Ministry of Jal Shakti, Govt. of India. As per the requirement of this project, it is proposed to employ three **Senior Research Fellow (SRF)** on purely temporary contract basis for a period of ***One Year'*** *which may be extendable up to* ***'Completion of the Project'*** *based on the performance of the candidate.* The qualification of the candidate should be as per the following requirement.

Sr. No	Designation	No. of Post	Qualification	Research Fellowship to candidates per Month
1.	Senior Research Fellow (SRF)	03	M. E. / M. Tech (Hydraulics or Water resources engineering or water resources management or equivalent) with two years research experience having good knowledge of soft computing techniques along with MATLAB coding skills. The GATE qualified candidates will be given the preference. In case the candidate with above qualification and skills are available and do not possess relevant experience, he/she would be paid as per JRF for first two years. After that, selected candidate would be paid as per the SRF.	**Pay Scale for SRF:** Rs.42000/- per month plus HRA as per Institute norms. **Pay Scale for JRF:** Rs.37000/- per month plus HRA as per Institute norms.

Interested candidates are requested to remain present at their own cost with application on plain paper (with two Passport size photographs), Curriculum Vitae, original certificates of educational qualifications and experience, certificate for proof of birth date, Identity Proof and one set of photocopies (self-attested) of the documents on 19-02-2025 between 10:00 AM to 11:00 AM in the Seminar Room of Department of Civil Engineering (Wing-A) at SVNIT Campus, Gujarat, India.

29/1/25

(Dr. P. V. Timbadiya)
Associate Professor &Principal Investigator

29/1/25

Head of the Department, DoCE

Research Project Details:

1. Collection of base line data of Narmada basin which would include rainfall data, stream gauge data, topographical data, soil, land use /land cover, groundwater levels, reservoir and its utilities, cropping pattern of various major command areas, past floods, vegetation, land management practices, sediment etc.

2. The extraction of downscaled climatic data in useful formats for the Narmada basin.

3. Selection of Hydrological (SWAT) and hydraulic models (MIKE FLOOD), and their calibration from past observed data.

4. Parametric and non-parametric tests for trend detection for meteorological and hydrological variables in the basin for historical and baseline scenarios.

5. Performance evaluation of major reservoirs under current and changing climatic conditions in the basin.

6. Prediction of decadal changes in planform and cross-sectional changes along Narmada River using the toposheet of SOI as base period.

7. Assessment of reservoir storage capacity considering morphodynamic changes along the river & Assessment of drought risk and impacts on the water demand.

29/1/2025