



# Amitabh Sharan

☎ 9818873500

✉ [amitabhsharan@ege-consultant.com](mailto:amitabhsharan@ege-consultant.com) & [amitabhsharan.geo@gmail.com](mailto:amitabhsharan.geo@gmail.com)

## 1. Concise

Ex. NHPC (National Hydroelectric Power Corporation), with more than 24 years of experience in Engineering Geology & Geotechnical assessment for Infrastructure & Power sector projects. As a Geotechnical professional I also worked in various designing work i.e., foundation design, tunnel support design, portal stabilization, slope protection work, highways roads & bridges, and various other infrastructure project. The detailed work / field experience is mentioned in reference no. 17 in this document.

## 2. Forte

Expertise in geotechnical/geological assessment in underground works including construction of Tunnels, Shafts and Caverns. Expertise gained in usage of modern equipment and implementation of New Austrian Tunneling Method (NATM) while working with expatriates in various infrastructure hydroelectric projects. Expertise in various aspects of contract as well as project management also.

**3. Name of firm: Excelling Geo & Engineering Consultant Private Limited**

**4. Family name: SHARAN**

**5. First name(s): AMITABH**

**6. Date of birth: December 17<sup>th</sup>, 1972**

**7. Nationality: Indian**

**8. Profession: Geotechnical Consultant**

## 9. Education:

<b>Institution</b>	Geology, Vinoba Bhave University, Jharkhand, India,
<b>Date</b>	1996
<b>Grade or Diploma</b>	<b>Master's in science (Gold Medalist- First Class, Rank First)</b>

<b>Institution</b>	Vinoba Bhave University, Jharkhand, India,
<b>Date</b>	1994
<b>Grade or Diploma</b>	<b>Bachelor's in science in Geology (Hons.- First Class, Rank Second)</b>

## 10. Language skills:

Language	Reading	Speaking	Writing
Hindi	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent

## 11. Software skills

- Geo-Technical Software
  - AUTO CAD, Bentley's Micro Station,
  - Dips, Slide, Unwedge, Swedge, Examine, Roc Support
  - Roc Plane, Rockwork
- Planning Software
  - Microsoft Project and Primavera
- Presentation Software
  - Microsoft Office, Adobe Photoshop, Corel Draw.



## 12. Present position: Chief Executive Officer and Director

## 13. Years within the firm: 6 (Six) Years

## 14. Key qualifications:

- Worked as an Expert Consultant in Various Hydropower Project including the Mega Hydro Project like Upper Siang (3750 MW) Hydro Power Project, Etalin (2700MW) Hydroelectric Project, etc.
- Experts in Geotechnical field studies, assessment and support measures for underground structures & slope stabilization.
- Established business professional, founder director and CEO of EGE Consultant Pvt. Ltd for the last 6 years
- Enhanced the technical and monetary worth of the company from scratch to greater than 4 Cr. turnover.

## 15. Membership of Professional Associations:

- Member of Indian Geological Congress (IGC).
- Life Member of Indian Society of Engineering Geology (ISEG).
- Member of International Association for Engineering Geology (IAEG).
- Life Member of Indian Society for Rock Mechanics and Tunneling Technology (ISRMTT).
- Life Member of Society of Geo Scientists of Jharkhand (SGSJ)

## 16. Publication:

- "Shear Zone Treatment, a case study of Indra Sagar Project on Narmada River, Madhya Pradesh, India". By – D. C. Tripathi, Chief (Geology) and Amitabh Sharan, Geologist. Published in Special issue on Indra Sagar Project of Water & Energy (page 88-94), Oct - Dec 2005, Vol.-62, No.-4 a Journal of Central Board of Irrigation & Power, India.

## 17. Field Experience:

<b>Project Name</b>	<b>Design And Construction of Sungal Tunnel (Total Length Of The Tunnel 2.79km) Including Approaches From Existing Chainage Km 49+150 To Km 64+535 (Design Chainage Km 46+450 To Km 55.800) To 2 Lane With Paved Shoulder (Package – II) Under 13 TF On Akhnoor – Poonch Road (Nh-144A) In UT Of Jammu &amp; Kashmir Under Project Sampark, Border Roads Organization (BRO) On EPC Mode</b>
Period	February 2021- till now
Location	Akhnoor – Poonch Road (Nh-144A) In UT Of Jammu & Kashmir
Employer	Border Road Organization (BRO) / MoRTH
Client	C S Construction Company Pvt. Ltd.
Project description	The project contains the tunnel of length 2.79 km and 2 minor bridges Including Approaches from Existing Chainage Km 49+150 To Km 64+535 (Design Chainage Km 46+450 To Km 55.800), 2 Lane with Paved Shoulder
Position	Project Coordinator & Engineering Geology / Geotechnical Expert
Services	Detail Design Engineering Consultancy

<b>Project Name</b>	<b>Consultancy Services for design of Tunnel at Kandaghat, Himachal Pradesh</b>
Period	March 2021- Dec 2021
Location	Solan, Himachal Pradesh
Employer	National Highway Authority of India (NHAI)
Client	Airef Engineer Pvt. Ltd.
Project description	Review of existing design & drawings, design of section for retrofitting and stability analysis and remedial recommendation for tunnel. Benching analysis, and detail design of secondary lining for complete tunnel, detail design of invert closing for complete tunnel.
Position	Project Coordinator & Engineering Geology / Geotechnical Expert



Services | Portal Design & Tunnel stability analysis, support recommendation for 60m and retrofiting. Tunnel benching Analysis and its support recommendation for entire tunnel (460m). Detail analysis of secondary lining of tunnel as per IS or relevant code.

**Project Name** | **Additional Work for Construction of Landslide Protection Gallery, Slope Protection Works Including Cattle Fence, Restoration of Irrigation Channel and River Protection Work at Bareti, Uttarkashi from Km 100.300 to Km 101.060 of Nh-34 on EPC Basis in the State of Uttarakhand.**

Period | October 2020- December 2020  
 Location | Barethi, Uttarkashi, Uttarakhand  
 Employer | National Highways and Infrastructure Development Corporation (NHIDCL)  
 Client | SAI GR IMPEX PVT. LTD.  
 Project description | Slope protections work with the provision of the Landslide protection Gallery  
 Position | Project Coordinator & Engineering Geology / Geotechnical Expert  
 Services | Review of Geotechnical Interpretation Report, preparation of Design Basis Report

**Project Name** | **Protection works of slide zone in KM. 124, 125 (near Lakhwad village), KM 148 (near Kempty fall bridge), and KM 139 to 156 for sinking zone on NH-707A under annual plan 2019-20.**

Period | January 2020 – March 2020  
 Location | Dehradun, Uttarakhand, India  
 Employer | N.H.P.W.D Doiwala, Uttarakhand  
 Client | N.H.P.W.D Doiwala, Uttarakhand  
 Project description | Landslide Rehabilitation Analysis and its Protection Measures  
 Position | Engineering Geology/Geotechnical Expert  
 Services | Assessment and review of all the geological, geotechnical of landslide and design aspects

**Project Name** | **Consultancy services for Detailed Engineering for road twin tunnel of contract package no. 09 of Nagpur-Mumbai Expressway, MSRDC in the state of Maharashtra.**

Period | June 2019 – December 2019  
 Location | Aurangabad, Maharashtra, India  
 Employer | Maharashtra State Road Development Corporation (MSRDC)  
 Client | Megha Engineering & Infrastructures Limited  
 Project description | Detailed Engineering for Road Twin Tunnel (Height-9.7 meter approx., Width-17.70 meter approx., and Length-300 meter approx.) of Contract Package No. 09 Of Nagpur-Mumbai Expressway, MSRDC In the State of Maharashtra.  
 Position | Engineering Geology/Geotechnical Expert  
 Services | Assessment and review of all the geological, geotechnical and design aspects.

**Project Name** | **Feasibility of Tunnel Portion for Improvement of Existing Road Karu- Tangtse to NHDL Specification from Km 20.00 To 81.60 Under Project Himank In Leh-Ladakh Region.**

Period | April 2019 – March 2020  
 Location | Tangtse, Ladakh  
 Employer | Border Road Organization (BRO)  
 Client | Highway Engineering Consultant (HEC)  
 Project description | Feasibility of 8 Km long tunnel  
 Position | Engineering Geology/Geotechnical Expert  
 Services | Assessment and review of all the geological, geotechnical, design and feasibility report.



<b>Project Name</b>	<b>Consultancy Services for the studies proposed to rejuvenate the lake at Uttarey, West Sikkim</b>
Period	April 2018 – October 2018
Location	Uttarey, West Sikkim
Employer	Government of Sikkim Department of Mines, Minerals & Geology
Client	Government of Sikkim Department of Mines, Minerals & Geology
Project description	The project involves geophysical investigation by 2D & 3D electrical resistivity, survey/tomography. Hydrological mapping, and collection of soil samples determination of engineering parameters for stability analysis of the bank. Identification of location for construction of spill structure along with detail design.
Position	Engineering Geology/Geotechnical Expert
Services	Planning geological exploration and review of geotechnical design.
<b>Project Name</b>	<b>Consultancy services for detail design &amp; related field investigation of 2-lane bi-directional Silkyara Bend – Barkot Tunnel with escape passage including approaches on Dharashu – Yamunotri section Between Ch. 25.400 km and Ch. 51.00 km falling along NH-134 (old NH- 94), in the state of Uttarakhand, India.</b>
Period	Aug 2018 – March 2020
Location	Sikyara, Uttarakhand
Employer	National Highways and Infrastructure Development Corporation (NHIDCL)
Client	Bernard Ingenieure ZT GmbH
Project description	Geotechnical studies and detail design and of 4.5Km long highway tunnel
Position	Engineering Geology/Geotechnical Expert
Services	Planning and assessment of exploration for the tunnel and portal.
<b>Project Name</b>	<b>Detail design and engineering services for the proposed dedicated freight corridor project from Dadri to Rewari package 14 for Dedicated Freight Corridor Western Corridor (DFCC)</b>
Period	December 2017 to June 2019
Location	Sohna, Haryana, India
Employer	Dedicated Freight Corridor Corporation of India Limited (DFCC)
Client	Snowy Mountain Engineering Corporation (SMEC)
Project description	Detail Design of (Tunnel, Civil and Structures) of CTP14 Package of Western Dedicated Freight Corridor project from Rewari to Dadri
Position	Engineering Geology/Geotechnical Expert
Services	Geotechnical Analysis and design report review of Railway Tunnel of equivalent diameter of 13 m and Length of 1000 m.
<b>Project Name</b>	<b>Preparation of Detail Project Report for studies and remedial measures for Mangan landslide and its approval from NDMA</b>
Period	June 2017 to December 2017
Location	Mangan, Sikkim
Employer	Department of Land Revenue and Diester Management, Govt. of Sikkim
Client	Department of Land Revenue and Diester Management, Govt. of Sikkim
Project description	DPR preparation for multiple failure zones located at Mangan town of Sikkim
Position	Engineering Geology/Geotechnical Expert
Services	Site apparition, planning, and assessment of exploration for the land slide. Review of all the geological and geotechnical investigation reports and DPR.
<b>Project Name</b>	<b>Polavaram Multipurpose Project</b>
Period	April 2015 to June 2016
Location	Andhra Pradesh



Employer	Polavaram Multipurpose Project Authority
Client	Megha Engineering & Infrastructures Limited
Project description	<b>This project is under construction - Hydroelectric, Irrigation &amp; Water supply project with Dam length of 2194 m and height 39.28m, installed capacity 960 MW</b>
Position	Project Coordinator & Engineering Geology/Geotechnical Expert
Services	Detailed Design of cut slope of spillway, Intake and Powerhouse

<b>Project Name</b>	<b>Tamu, Yamar – II and Yamar - III small Hydro Projects</b>
Period	April 2015 to February 2016
Location	Myanmar
Employer	Sharp Hydroengineering Pvt. Ltd.
Client	Myanmar Government
Project description	Geological & Geotechnical work for DPR of the projects
Position	Engineering Geology/Geotechnical Expert
Services	Consultant Services

<b>Project Name</b>	<b>Upper Siang (3750 MW) Hydro Power Project</b>
Period	April 2013 to March 2015
Location	Upper Siang District, Arunachal Pradesh
Employer	North Eastern Electric Power Corporation Limited (NEEPCO)
Client	Rushydro Engineering
Project description	The Siang Upper Hydro Power Project, Stage-II on river Siang in Arunachal Pradesh is being developed and located in Upper Siang District of Arunachal Pradesh in the North-Eastern region. A concrete gravity dam of 135m high from the deepest foundation level to provide a gross storage of 1850 M. cum at FRL (EL 335 m). 2 nos. Underground Powerhouse caverns. Each cavern shall house 6 nos. of Vertical Francis Turbines of 250 MW each.
Position	Engineering Geology/Geotechnical Expert
Services	Geology, Geophysical and Geotechnical.

<b>Project Name</b>	<b>Kiru &amp; Kwar Hydroelectric Power</b>
Period	August 2011 to March 2013
Location	New Delhi, India
Employer	National Hydroelectric Power Corporation (NHPC)
Client	ATES, a consultancy division of Aimil Ltd. India
Project description	Kiru HEP is proposed with a proposed capacity of 624 MW (4 X 156). Concrete gravity dam, 135 m high from deepest foundation level. Powerhouse – underground Kwar HEP is proposed with a proposed capacity of 540 MW (4 X 135). Concrete gravity dam, 109 m high from deepest foundation level.
Position	Deputy General Manager (Technical)
Services	Geology & Geotechnical field investigation, Detail Project Report on Geology and provide technical support to client in approvals from authorities

<b>Project Name</b>	<b>Ratle (440MW) Hydroelectric Project</b>
Period	August 2011 to March 2013
Location	New Delhi, India
Employer	GVK Group
Client	ATES, a consultancy division of Aimil Ltd. India
Project description	The Ratle Hydroelectric Plant is a run-of-the-river hydroelectric power station
Position	Deputy General Manager (Technical)
Services	Reservoir Rim Stability analysis work which includes detail surface geological mapping, field testing, lab testing, desk analysis, risk assessment analysis and support design works.



<b>Project Name</b>	<b>Etalin (3097MW) Hydroelectric Project</b>
Period	October 2009 to August 2011
Location	Arunachal Pradesh, India
Employer	Jindal Power Limited
Client	SNC-Lavalin Engineering India Pvt. Ltd.
Project description	The installed capacity of the project is 3097 MW as per the detailed project report. Etalin HEP is envisaged as a run of the river scheme on rivers Dri and Tangon in the Dibang Valley District of Arunachal Pradesh. It is the largest of the hydroelectric projects being currently developed in India.
Position	Assistant General Manager (Technical)
Services	Involved in Preparation of Detailed Project Report; Responsible for all types of Geotechnical activities like surface geological mapping, Preparation of Drill Hole Logs, 3D Logs of Drifts, Planning for geotechnical exploration, Collection, and interpretation of field data useful for design and Preparation of Geotechnical Report etc.

<b>Project Name</b>	<b>Attunli (500MW) Hydroelectric Project</b>
Period	October 2009 to August 2011
Location	Arunachal Pradesh, India
Employer	Jindal Power Limited
Client	SNC-Lavalin Engineering India.
Project description	The project is in DPR stage. The proposed dam is a 85m high concrete gravity
Position	Associate Lead Geologist
Services	Involved in Preparation of Detailed Project Report; Responsible for all types of Geotechnical activities like surface geological mapping, Preparation of Drill Hole Logs, 3D Logs of Drifts, Planning for geotechnical exploration, Collection, and interpretation of field data useful for design and Preparation of Geotechnical Report etc.

<b>Project Name</b>	<b>Chitrangi (6000MW) Thermal Project</b>
Period	May 2010 to July 2010
Location	Singrauli, Chattisgrah, India
Employer	Reliance Power Limited
Client	SNC-Lavalin Engineering India
Project description	Thermal power project under Detailed Project Report stage
Position	Associate Lead Geologist
Services	Involved in preparation of Detail Project Report for water supply scheme for thermal power plant. The suitability of the civil structure including weir, intake well, pipeline alignment, storage reservoir etc. on the foundation rock/ overburden has been studied and give geotechnical assessment.

<b>Project Name</b>	<b>Dagachhu (114MW) Hydro Electric Project</b>
Period	September 2009 to April 2010
Location	Dagana, Bhutan
Employer	Government of Bhutan & Hindustan Construction Company (HCC)
Client	SNC-Lavalin Engineering India.
Project description	The Dagachhu Hydropower Project is a run-of-the-river hydropower project with a net head of 282 m, which will be sufficient to provide an installed capacity of 114 MW with approximate annual energy production of 500 GWh. A concrete gravity diversion dam of 20.5 m height above the riverbed with a crest length of 18.2 m will be built on Dagachhu. The powerhouse will be equipped with two turbines with installed capacity of 57 MW each
Position	Associate Lead Geologist
Services	Involved in Preparation of Detailed Project Report; Responsible for all types of Involved in detailed geological mapping and geotechnical assessment of different project components; provide geological and geotechnical inputs to design engineers for detailed design of Civil.



<b>Project Name</b>	<b>Bajoli Holi (180MW) Hydroelectric Project</b>
Period	November 2008 – August 2009
Location	Distt. Chamba, Himachal Pradesh, India
Employer	GMR Energy Limited
Client	SNC-Lavalin Engineering India
Project description	The Run-Off-River (ROR) project envisages the construction of a 66m-high concrete gravity dam near Bajoli village, approximately 950 m downstream of the confluence of Channi nallah and the river Ravi. The diverted water shall be carried through a water conductor system planned on the left bank of Ravi to a surface powerhouse. The surface powerhouse complex consists of three units of 60MW, each, is proposed on a terrace available on the left bank of the river.
Position	Associate Lead Geologist
Services	Involved in Preparation of Detailed Project Report, Responsible for all types of Geotechnical activities like surface mapping, Preparation of Drill Hole Logs, 3D Logs of Drifts, Planning for geotechnical exploration, Collection, and interpretation of field data useful for design and Preparation of Geotechnical Report etc. Assessment of geotechnical investigations conducted, Preparation of specifications and BOQ for the additional investigation required, aiding the Owner in selection of Contractor for the additional geological and geotechnical investigations to be carried out, Supervision of the additional geotechnical investigations required.

<b>Project Name</b>	<b>Kutehr (240MW) Hydro Electric Project</b>
Period	November 2008 – June 2009
Location	Chamba, Himachal Pradesh, India
Employer	Jindal Steel Works Limited (JSW)
Client	SNC-Lavalin Engineering India.
Project description	The project was under Detailed Project Report preparation.
Position	Associate Lead Geologist
Services	Involved in Preparation of Detailed Project Report, Responsible for all types of Geotechnical activities like surface mapping, Preparation of Drill Hole Logs, 3D Logs of Drifts, Planning for geotechnical exploration, Collection, and interpretation of field data useful for design and Preparation of Geotechnical Report etc. Assessment of geotechnical investigations conducted, Preparation of specifications and BOQ for the additional investigation required, aiding the Owner in selection of Contractor for the additional geological and geotechnical investigations to be carried out, Supervision of the additional geotechnical investigations required.

<b>Project Name</b>	<b>Tato-II (700MW) Hydro Electric Project</b>
Period	December 2006 – October 2008
Location	West Siang District, Arunachal Pradesh, India
Employer	Reliance Energy Limited
Client	Reliance Energy Limited
Project description	The project is under DPR stage. The project involves the construction of a 700MW hydroelectric power plant with 100m concrete dam.
Position	Senior Manager (Technical)
Services	Associated in Planning & Execution of Geotechnical activities, Rock/Soil mechanics testing for foundation of Civil Structure, Geotechnical Survey, Preparation of Detail Project Report, In a Project Execution Group, responsible for all types of Geotechnical activities, overall scheduling, planning for the construction of project, Infrastructure planning and development like construction of Roads, Bridges etc.

<b>Project Name</b>	<b>Siyom (1000MW) Hydro Electric Project</b>
Period	June 2007 – December 2008
Location	West Siang District, Arunachal Pradesh, India



Employer	Reliance Energy Limited
Client	Reliance Energy Limited
Project description	The project is under DPR stage. The project involves the construction of a 1,000MW hydroelectric power plant comprising six units of 166.7MW each. It will include the construction of a powerhouse, substations, access roads, a 155m concrete dam etc.
Position	Senior Manager (Technical)
Services	Associated in Planning & Execution of Geotechnical activities, Geotechnical Survey, Modelling for stress analysis, In a Project Execution Group, responsible for all types of Geotechnical activities, overall scheduling, planning for the construction of project, Infrastructure planning and development.

<b>Project Name</b>	<b>URI II (240MW) Hydro Electric Project</b>
Period	July 2006 – November 2006
Location	Uri, Jammu & Kashmir, India
Employer	National Hydroelectric Power Corporation (NHPC)
Client	National Hydroelectric Power Corporation (NHPC)
Project description	Uri-II power station is run-of-the-river scheme with an installed capacity of 240 MW (4 X 60 MW) to harnesses the Hydropower potential of river Jhelum (a tributary of Indus River). The power station comprises of a 52 m high concrete gravity dam, 8.4-meter dia & 4.28-kilometer-long horseshoe shaped HRT., restricted orifice type surge shaft with two 5 m dia steel lined pressure shaft. The underground powerhouse has installed capacity of 240 MW houses 4 units of 60 MW.
Position	Geologist
Services	Responsible for Geo-technical work of Uri-II Project, such as 3D Logging, Face

<b>Project Name</b>	<b>Handia (51 MW), Hoshangabad (61 MW) &amp; Boras (55 MW) Hydroelectric Project</b>
Period	August 2005 – June 2006.
Location	Madhya Pradesh, India
Employer	Narmada Hydroelectric Development Corporation (NHDC)
Client	Narmada Hydroelectric Development Corporation (NHDC)
Project description	Geological Work for multiple Hydro power projects
Position	Engineering Geologist
Services	Preparation Detail Project Report, Responsible for all Geo-technical activities including survey & Investigation's activities, Layout Finalization, PAF studies, Planning & Execution of Exploratory drilling, Soil Mechanics Testing, provide all inputs to Design for civil structures such as Dam & Powerhouse and related structures, Assessment of geotechnical parameters & failure mechanism studies for civil structures.

<b>Project Name</b>	<b>Indira Sagar (1000MW) &amp; Omkareshwar (520 MW) Hydroelectric Project</b>
Period	December 2004 – June 2006
Location	Madhya Pradesh, India
Employer	Narmada Hydroelectric Development Corporation (NHDC)
Client	Narmada Hydroelectric Development Corporation (NHDC)
Project description	Omkareshwar HEP has 949m long Concrete Gravity Dam, 53m high from the deepest foundation level. 171.5m long H.R.C. and 145m long T.R.C. A surface Powerhouse to accommodate 8 units of 65 MW each.
Position	Engineering Geologist
Services	Associated with geotechnical studies and stability analysis. Involved in foundation studies and its treatment like jet grouting for Omkareshwar Project.

<b>Project Name</b>	<b>Kotli Bhel IA, IB &amp; II (850MW) Hydro Electric Project.</b>
Period	April 2004 – June 2004
Location	Uttarakhand, India





Employer	National Hydroelectric Power Corporation (NHPC)
Client	National Hydroelectric Power Corporation (NHPC)
Project description	Kotli Bhel Hydroelectric Project Stage-IA is a run of river scheme proposed on river Bhagirathi a tributary of river Ganga in Tehri & Garhwal district of Uttarakhand. The project's DPR is complete and is awaiting clearance
Position	Engineering Geologist
Services	Worked in Conceptual & Feasibility studies including Drift logging, Surface mapping, joint data collection and all geological inputs to feasibility report.

<b>Project Name</b>	<b>Dhauliganga (280MW) Hydro Electric Project</b>
Period	June 2001- December 2004
Location	Uttarakhand, India
Employer	National Hydroelectric Power Corporation (NHPC)
Client	National Hydroelectric Power Corporation (NHPC)
Project description	Dhauliganga Power Station (4x70 MW) is a run of the river scheme with small
Position	Engineering Geologist
Services	Geo-technical works from construction till completion of all major civil activities, worked in 3D logging, face logging & documentation of all geological features, which affects the stabilities of civil structures. Geological mapping activities along about 6 km Tavaghat-Chirkilla Road (approach to Dam site), which including 64m long Road Tunnel.

## 18. CERTIFICATION

I, the undersigned, certify that to the best of knowledge and belief, this bio data correctly describe qualifications, my experience and me.

Date: Thursday, December 02, 2021

Amitabh Sharan

Mobile: **+91-9818873500 / +91-8700582839**

Email: [amitabhsharan.geo@gmail.com](mailto:amitabhsharan.geo@gmail.com)

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