

**CURRICULUM VITAE (CV)**

1.	<b>Name of Firm</b>	<b>Aquagreen Engineering Management (P) Ltd.</b>		
2.	<b>Name of Expert</b>	<b>SUBODH CHANDER SUD</b>		
3.	<b>Date of Birth</b>	20.07.1942	<b>Citizenship</b>	Indian
4.	<b>Education</b>	<ul style="list-style-type: none"> <li>➤ M. Tech (Water Resources), IIT Delhi (1986)</li> <li>➤ B.Sc. Engineering (Civil), Punjab Engineering College, Chandigarh (1964)</li> </ul>		
5.	<b>Membership in Professional Association</b>	<ul style="list-style-type: none"> <li>➤ Fellow, Institution of Engineers, India</li> <li>➤ Life Member of the Association of Hydrologist of India</li> <li>➤ Life Member, Central Water Engineering Services (Group A) Association</li> </ul>		
6.	<b>Other Trainings</b>	<ul style="list-style-type: none"> <li>➤ “Economical and Statistical Analysis of Water Resources Projects” from 20.01 1986 to 19.05.1986 at Colorado State University, USA</li> <li>➤ “Hydrology for Senior Engineers” from 20.01.1981 to 09.02.1981 at Central Water Commission, New Delhi</li> <li>➤ “Mobile Short Course on System Engineering for Water Resources Planning &amp; Management” from 01.07.1985 to 09.08.1985 by Central Water Commission &amp; Colorado State University, USA at Training Cell, CWC, New Delhi.</li> <li>➤ “Study Tour to USA for Development of Techniques for Real Time Operation of Reservoirs” from 31.01.1992 to 21.02.1992.</li> </ul>		
7.	<b>Countries of Work Experience</b>	India, Iraq, Uganda, Bhutan		
8.	<b>Languages</b>	<b>Speaking</b>	<b>Reading</b>	<b>Writing</b>
	• <b>English</b>	Good	Good	Good
	• <b>Hindi</b>	Good	Good	Good
9.	<b>Employment Record</b>	<p>Mr. S. C. Sud has a professional experience of more than 48 years in Hydrology, Hydrometry, Preparation of Hydrology Chapters &amp; other aspects of Water Resources Development &amp; Management in India and Iraq.</p> <p>The domain of his expertise are as follows :</p> <ul style="list-style-type: none"> <li>➤ Directed, Supervised and co-ordinate all field activities relating to Hydrology, Hydrometry, Sediment Analysis, snow studies, monitoring and appraisal of irrigation and HE Project, issue of flood warnings to Pakistan.</li> <li>➤ Implementation of Indus Waters Treaty, Flood Warnings and supply of Hydrological data to Pakistan, Inter-state issues of Indus Basin States.</li> <li>➤ For integrated operation of Reservoirs, Implemented USAID Project “Real Time Operation of Reservoirs for Bhakra Beas System.” Studies for integrated management of Water Resources of Damoder, Bhakra-Beas &amp; Veller basins were carried out, Prepared” BIS Guidelines for Operation of</li> </ul>		

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		<p>Reservoirs.” Prepared the Publication “Evaporation Control in Reservoirs.”</p> <ul style="list-style-type: none"> <li>➤ Investigation of Kirthai H.E Project, Chenab Responsible for collection analysis and publication of hydro-meteorological data of Chenab Basin, issue of flood warning to Pakistan.</li> <li>➤ Design Flood, Water Availability, Sedimentation and Evaporation Loss Studies, Preparation of Hydrology Chapters, Consultancy and guidance on Project Hydrology to States. Member of Various Committees/Working Groups. Appraisal of Hydrological Aspects of Irrigation &amp; H.E Projects.</li> <li>➤ Carrying out hydrological Studies, Technical Examination of hydrological aspects and preparation of Hydrology Chapter for various irrigation and H.E Projects.</li> <li>➤ Installation of gauge, discharge and rain gauge sites. Collection, compilation and analysis of hydrological data, flood forecasting, Operation &amp; Management of a major reservoir.</li> <li>➤ Hydrological studies and preparation of Basin Reports for estimation of design flood for Railway and Road Bridges.</li> </ul> <p>He has experience in a number of Projects such as:</p> <ol style="list-style-type: none"> <li>1. Kirthai H.E. Project, Chenab, Jammu (360 MW)</li> <li>2. Teesta – III Hydro Electric Project, Sikkim, India (1200 MW)</li> <li>3. Kholongchu HEP, Bhutan (600 MW)</li> <li>4. Kynshi Stage - I HEP, Meghalaya, India (370 MW)</li> <li>5. Ayago Hydro Power Project, Uganda (6 x 113.33 MW)</li> </ol>
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Period	Employer	Position Held
2013- till date	Aquagreen Engineering Management (P) Limited, India	Consultant (Hydrologist)
2007- 2013	Energy Infratech Pvt. Limited, India	Consultant (Hydrologist)
2002- 2007	WAPCOS (India) Ltd., New Delhi	Consultant (Top Level Expert)
1998- 2002	Central Water Commission, India	Chief Engineer, Indus Basin
1997- 1998	MOWR, New Delhi	Commissioner (Indus)
1990- 1997	Central Water Commission, India	Director (Reservoir Operation)
1988- 1990	Central Water Commission, India	Superintending Engineer, Northern Investigation Circle, CWC, Jammu
1986- 1988	Central Water Commission, India	Director, Hydrology (N), CWC, New Delhi
1979- 1986	Central Water Commission	Deputy Director, Hydrology (N), CWC, New Delhi
1974- 1979	Government of IRAQ	Hydrologist, Irrigation Directorate, Iraq

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Period	Employer	Position Held
1965- 1974	Central Water Commission	Assistant Director, Flood Estimation Directorate
1964- 1965	Punjab Engineering College, Chandigarh	Lecturer

10.	Work Undertaken the best Illustrates Capability to handle the Task Assigned	
(1)	<b>Name of assignment or Project</b>	<b>Kynshi Stage - I HEP, Meghalaya</b>
	<b>Client</b>	2009 - 2011
	<b>Year</b>	Kynshi River, Latitude 25° 26' 47"N, Longitude 91° 12' 45" E
	<b>Location</b>	Athena Power Limited
	<b>Main project features</b>	i. Installed Capacity : 300 MW ii) Concrete Gravity Dam 53 m High iii) Gross Storage 344.80 MCM iv) Storage at MDDL 194.80 MCM v) Live Storage 150.00 MCM vi) Diversion Tunnel 1 No. 6.0 m Diameter of 487 m length vii) Head Race Tunnel 5.0 m Diameter, 7.6 km Long, Horse Shoe Shape viii) Design discharge 57.5 Cumec ix) Net Head 587.2 m
	<b>Positions held</b>	Consultant, Hydrology, EIPL
	<b>Activities performed</b>	Water Availability, Design Flood, Diversion Flood & sediment Studies & preparation of Hydrology Chapter
(2)	<b>Name of assignment or Project</b>	<b>Khuitam HEP, Arunachal Pradesh</b>
	<b>Year</b>	2009-10
	<b>Location</b>	Gang River, Tributary of Bichom River, Arunachal Pradesh Latitude 27° 19' 13.5" N , Longitude 92° 23' 54.9" E
	<b>Client</b>	Aqua Green Private Limited
	<b>Main project features</b>	i. Installed Capacity : 66 MW ii. Barrage 19 m High iii. Gross Storage 31.5 Ha. m iv. Head Race Tunnel 6.3 m Diameter, 3 km Long, Horse Shoe Shape v. Design discharge 100.35 Cumec vi. Net Head 71.49 m
	<b>Positions held</b>	Consultant, Hydrology, EIPL
<b>Activities performed</b>	Water Availability, Design Flood, Diversion Flood Studies & preparation of Hydrology Chapter	

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<b>(3)</b>	<b>Name of assignment or Project</b>	<b>Anjaw HEP, Arunachal Pradesh</b>
	<b>Year</b>	1910 - 11
	<b>Location</b>	Lohit River Near Supliyang Village, Anjaw District Latitude 28° 02' 31" N Longitude 96° 35' 04" E
	<b>Client</b>	Lohit Urja Private Limited
	<b>Main project features</b>	26 m High Diversion Barrage No. of Barrage Gates 7 Nos., 13.00 m Wide X 24.00 m High Penstocks 7 nos., (Steel lined), 48.5 m length each Tailrace 163.6 m Wide and 165 m Long Rectangular Rated Net Head 27.04 m Installed Capacity 7 x 40 MW = 280 MW Turbines 7 Nos., 40 MW Each, Vertical Kaplan Turbines
	<b>Positions held</b>	Consultant, Hydrology, EIPL
	<b>Activities performed</b>	Water Availability, Design Flood & Diversion Flood Studies; Preparation of Hydrology Chapter