एसजेवीएन अरूण-3 पॉवर डवलपमेंट कंपनी प्रा. लि. SJVN Arun-3 Power Development Company Pvt. Ltd.

(एसजेवीएन की पूर्ण स्वामित्व वाली अधीनस्थ कंपनी)

(A wholly owned subsidiary of SJVN) 900 मेगावाट अरूण-3 जलविद्युत परियोजना

900 MW Arun-3 Hydro Power Project

Regd. No.: 111808/69/070



Clarifications No. I

Subject: PCD-272/2025 "Supply, Installation, Monitoring, Data Analysis and Routine Maintenance of Geotechnical Instruments for Dam site of Arun-3 HEP (900 MW)".

Sr. No.	Provision in Bid document	Summary of Clarifications Requested	Response/ Comments
1.	NIT 1.11 Place of submission/opening of bids Chief Engineer (P&C), Arun-3 HEP, SAPDC,	We understand bid may be submitted at	Bids may be submitted by
	Satluj Bhawan, Arun Sadan, Tumlingtar, Distt. Sankhuwasabha, Nepal Ph. +977-29- 575154, OR	your Kathmandu or Tumlingtar office. Please confirm.	bidders in the aforementioned offices at Tumlingtar or Kathmandu in accordance with clause 1.11 of Section-I, Notice Inviting Tender
	Co-ordination & Liaison Office House No. 3, Ward No. 1, Swagat Marg, 3rd Floor, CIT Building, New Baneshwor Ward No. 31, Kathmandu, Nepal Tel: (+977-1) 5912960, 5912961		

2.	DETAILED SCOPE OF WORK		Maximum depth would be
	1.Scope of Work, b. Installation	Please confirm the maximum depth of borehole to be done by coring and non-coring method.	30m, however clause 6.9 of SCC shall prevail.
	These instruments are required to be installed in holes of various size and depth in both surface and sub-surface components of project. For installation of Piezometers and Inclinometers, 100 mm dia. of cored hole and for MR-MPBX, 76mm of non-cored holes at variable depth is required to be drilled.	7 to per diamingo provided in terider di	Existing Provisions shall prevail. Refer Section-VII Tender Drawings and specifications.
	Bi-reflex targets & Prism targets will be installed by the agency and monitoring will be done by survey team with equipment of main contractor.	provided by Main contractor. Please	Existing Provisions shall prevail.
3.	1. Scope of Work, c. Monitoring, Data Analysis & Routine maintenance Monitoring shall be done by agency after installation of first instrument at any location of project suggested by SAPDC along with already installed instruments at Dam Complex.	Please provide No, and Type of already installed instrument at Dam site. We understand that Readout unit for already installed instruments will be provided by SAPDC, Please confirm.	Quantity of already installed instruments at Dam site is as below: 1. Piezometers (VW): 9 nos. 2. Joint Meter (VW): 1 no. 3. MPBX(Electromechanical): 1 no. 4. Electromechanical Load cell (Rock Bolt): 6 5. Strain Bar (Electromechanical): 2 nos. 6. Inclinometer: 04 nos. Existing/Supplied Read out shall also be used for monitoring.
4	SCHEDULE -A (Bill of Quantity) Item No 1 & 2 (Load Cell)	Please confirm the dia. of the anchor on which load cell to be installed.	Existing Provisions shall prevail.
	T/2	We understand all arrangement of torque to rock bolt after installation of load cell will be arranged by the agency Edit with WPS Office	Confirmed.
	VV	Luit With WF3 Office	

		who is doing rock bolting. Please confirm.	
5	SCHEDULE -A (Bill of Quantity)		
	Item No 3		
	Magnetic Ring Multi Point Borehole Extensometer (MR- MPBX) (Facility to take reading by V-W readout device and by data logger).	We understand that Magnetic Ring Extensometer is mechanical instrument and it cannot be monitored by VW Readout and data logger hence (Facility to take reading by V-W readout device	Refer Amendment No. II.
	Magnetic ring bore hole extensometer suitable for installation in Horizontal/ downward hole.	and by data logger) should be deleted from specification.	
	Tor installation in Honzontal, downward hole.	Is it required to install the MRBE in Horizontal holes as well. If yes than how many holes and depth of installation.	Maximum depth would be 30m, however clause 6.9 of SCC shall prevail.
6	SCHEDULE -A (Bill of Quantity)	Please provide the specification of Water	Existing Provisions shall
	Radar Type Water Level Indicator/Sensor	level sensor Depth of measurement etc.	prevail.
7	SCHEDULE -A (Bill of Quantity) Part C		
	Monitoring, Data Analysis and Routine Maintenance (Including monitoring and analysis of already installed Geotechnical Instruments like, MPBX, Rib & Rock bolt load cells, Piezometers etc. at Dam site) Monitoring and maintenance of Geotechnical	Please provided detail of type and No. of instruments already installed at Dam Site. We understand that safe accesses would be there to monitor the instruments while contract period of monitoring. Please confirm.	Refer sr. no.3 of Clarification no. l.
	Instruments installed at Dam site and Data Analysis/Interpretation by expert including submission of monthly report.	Please elaborate the deliverables in Analysis/ Interpretation by expert.	Existing Provisions shall prevail.
	Special Conditions of Contract 2.1 The Contractor shall supply, transport, store, install, calibrate, test, survey and maintain and commission instrumentation		Existing Provisions shall prevail.

	including drilling works in open works, underground works, Dam foundation or elsewhere as specified in the drawings or as directed by the Employer.	structures to be construct with location of construction and specification.	Existing Provisions shall prevail.
	The Contractor shall also supply and install all ancillary measuring equipment such as cabling, auxiliaries, and readout units. The Contractor shall construct terminal structures, protective surrounds for instruments, excavate pit and trenches, drill holes, install pipes and fittings, and cast concrete where required. The Contractor shall furnish and install cabling conduits, cabinets, and panel boards.	Cabling to be done only for the proposed instrumentation in BOQ, no cable extension works to be done for already installed instruments, please confirm.	Existing Provisions shall prevail.
8	Special Conditions of Contract 9.6 The monthly report of monitoring along with data analysis/interpretation and remedial measures/corrective action if any, should be submitted by the contractor in hard copy (spiral bind) and in soft copy contains graphs, interpretations etc. to the Employer.	Please elaborate more about deliverables pertains to data interpretation. Suggestion of remedial measures are part of design review of slope and cannot be provided only based on instrumentation data. Instrumentation data may provide only the movement happening in structure, Site specific Geotech/ Geophysical, hydrology, Topography and other parameter are required for slope stability analysis. Extensive inputs are required by slope design experts hence it should be a separate item or to be deleted from scope of work.	Existing Provisions shall prevail.
9	Special Conditions of Contract 16.4 The balance 20% payment against supply part of clause 16.1 above shall be made after successful installation, commissioning and successful operation up to 90 days of the individual instrument and within 30 days of issuance of operational certificate by the Employer.	We understand that payment of individual instrument will made after 90 days of successful operation and issuance of operational certificate. SAPDC will hold only the balance payment of uninstalled instruments.	Existing Provisions shall prevail.

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