

CLARIFICATION/ADDENDUM

MPAKVN Bhopal NIT No. 18/2018-19

CLARIFICATION/ADDENDUM ON THE QUERIES RAISED BY THE BIDDERS REGARDING TENDER DOCUMENT Subject :- Supply, installation & commissioning of hydraulic control valves with controller and Scada system for sector- A, B, C & D at I/A Mandideep, Distt-Raisen (M.P) & M.P. AKVN, (BHOPAL) (M.P.)

Response to Pre-Bid Meeting date 12/10/2018 at 03:00 Pm

(This document shall be part of Tender Document)

S. No.	Tender document section no, Clause no. , Head, Sub head & Page no.	In tender document	Queries	Response by AKVN Bhopal
1	Point 17 : Form of Earnest money deposit, Page no. 16	Forms of Earnest money deposit i. FDR. ii. Demand draft of scheduled commercial bank.	We request you to accept EMD in form of BG	As per original Bid
2	4(a) Eligibility for bidders, Page no. 06	At the time of submission of the Bid the bidder should have valid registration with the Government of Madhya Pradesh, PWD in appropriate class	Please let us know the process registration & also tell us in which class & category we have to do registration.	Contact with MP PWD department for registration in appropriate class as per required.

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3	Page no. 17	There is an ambiguity in physically Bid submission date i.e. 18/10/2018 or 25/10/2018	Please clarify	Amended Key Schedule Dates. Released of Tender - 04-10-2018, 17:30 Purchase of tender Start & End Date - 04-10-2018, 17:30 & 16-11-2018, 17:30 Bid submission End Date (Online) - 17-11-2018, 17:30 Bid submission End Date (Physically) i.e. EMD & other documents - 20-11-2018, 17:30 Open EMD & Technical/PQ Bid - 24-11-2018, 10:30 Open Financial Bid - 04-12-2018, 10:30
4	Bid Capacity, Page no. 29	Applicants who meet the minimum qualifying criteria in the evaluation as stated above are to be evaluated further for Bid capacity as under. Bid capacity = $(1.5 A \times B) - C$. Where A = Maximum value of civil engineering works Executed.	Proposed work is of SCADA systems so we request you to change civil engineering work, define in A, to SCADA & Automation work.	Line -"Civil Engineering work" replaced by SCADA & Automation work.

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5	Annexure - I, Page no. 30	Format I- 3	Please clarify minimum requirement.	One Engineer Two Helper For 36 Months.
6	Annexure - I, Page no. 31	Format I- 4	Same is not relevant to proposed work, so please remove the same.	Relevant Machinery is required for Execution of work. Please submitted Equipment & Machinery details
7	BOQ item no. 5, Page no. 87	Supply of flow meter with 4-20 mA signal to the electronic controller for flow management	Our suggested) make of flow meter is : Krohne/ABB/Adept/E&H/DOROT	Accepted
8	BOQ item no. 6, Page no. 87	Supply of level transmitter with 4-20 mA signal to the electronic controller for flow management	Our suggested make of level transmitter is electronet / Pune Techtrol /Siemens/ABB	Accepted
9	BOQ item no. 6, Page no. 87	Supply of level transmitter with 4-20 mA signal to the electronic controller for flow management	Please provide the range of level transmitter	0-5 meters.
10	Section 2 – ITB, Clause reference No 1, Page no. 15	There is an ambiguity against qualification criteria : on page 15 you ask experience of Supply, installation & commissioning of hydraulic control valves & on page no 28 of financial & Experience details: you ask for experience in Electronically operated valve with flow meter and Scada system.	As per our understanding, proposed work is for Electronically operated valve with flow meter and Scada system. so we request you to please consider the same against Qualification criteria.	This work is concerned with Electronically operated valve with flow meter and SCADA system.
11	Annexure-O, Page no. 60	Details of Milestones.....	We Request you to consider payments terms as 90% supply within 15 days of the receipt of material and 10% after commissioning.	As per original Bid
12	BOQ item No 10, Page no. 88	Providing Training to AKVN team for 6 months & O & M with 1 Engineer & 2 helpers	Please let us know the duration of O&M period, amount mentioned for O&M is very less.	36 Months.

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13			Please provide the system configuration /Schematic how BOQ instruments will be installed & where.	As per the site condition and requirement, the system configuration/Schematic dates will be finalized for instrumentation as per Engineer incharge.
14	Maintenance, Page no. 84	The bidder should propose a recommended five year set of spare parts per a batch of 5 valves of the same diameter and quote their price.	Please clarify	As per original Bid
15	Maintenance, Page no. 84	There is an ambiguity against defect liability: The bidder should provide 7 years warranty period but at page no. 56 of contract data there are 3 (Three) years defect liability period after physical completion of work	Please clarify the defect liability period	Defect Liability - 3 Years
16	energy requirement of the controller and communication System, Page no. 84	The control valve operation/regulation thru the controller should be independent of any solar energy or grid power supply. The controller battery must be powered by an independent power source of low friction turbine mounted on a main valve by-pass	Please clarify whether we have proposed solar or there is availability of power	As per original Bid
17	The SCADA software must be based in WEB architecture. Page no. 86	a. Web architecture: The system must be a cloud based system allowing access from any web browser. No need to install any software for the users.	Please define the requirement of cloud based system.	As per original Bid

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18	BOQ, Page no. 87	Detailed Estimate for Supply, installation & commissioning of hydraulic control valves with controller.....	Please define the controller location.	The controller is integrated system of the flow control valve assembly and should be installed at the valve location. The size of the controller must be as per required, as per site with approval by EIC.
19	7) SCADA System (At AMC Zone office), Page no. 88	SCADA System at Zonal Control Room for Overall Monitoring of Flow & other process data at AMC Zone Office or other.....	Please define the other process data	The other data refers to flow, level, and other instruments.
20	7) SCADA System (At AMC Zone office), Page no. 88	SCADA System at Zonal Control Room for Overall Monitoring of Flow & other process data at AMC Zone Office or other.....	Our suggested Make of controller & SCADA is: ABB/Schneider/GE/Rockwell/Wago/Phoenix	The controller compatibility and installation experience should be met as per tender document.

S. No.	Tender document section no, Clause no. , Head, Sub head & Page no.	In tender document	Queries	Proposed Amendment	Response by AKVN Bhopal
21	Main Valve at Page no. 77 & BOQ (Item no.1-4) at Page no. 81	Direct sealing Diaphragm valve	When Diaphragm of Flow Control valve (FCV) is used as direct acting (sealing) then it needs to be Replaced, when the valve starts leaking. In case of In-direct diaphragm sealing , only O-ring or Flat disc needs to be replaced when valve is found to be leaking, which cost much less than Diaphragm. Therefore, we request you to give both option i.e Direct / In- direct diaphragm sealing valve to increase more participation of manufactures.	Provide both option i.e. Direct / In- direct acting (sealing) diaphragm for Flow Control valve	Both the type of valves are accepted if meeting the technical/application requirement as per Bid.

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22	Main Valve, Page no. 77	2 Control Chamber (Double Chamber)& 4 Chambers	<p>In the tender technical specification, Double Control Chamber is mentioned for valve size 300 mm & 400mm and 4 Chamber are mentioned for valve size 500 mm & 600 mm, without any established advantages of such design. This specific condition (double chamber) supports to only single foreign manufacturer.</p> <p>In the BOQ, Maximum size of FCV is mentioned as 300 mm. Therefore, 4 Chamber valve is not required in this tender.</p> <p>We have studied literature of approved make mentioned in the tender & not found any 4 chamber Flow control valve. Kindly let us know, under what condition 4 Chamber valve is used?</p> <p>Indore Municipal Corporation, PHED Rajasthan, MCGM (Municipal Corporation of Greater Mumbai), Mumbai & corporations of Chhattisgarh, are using only Single Chamber Flow control valve of size upto 600 mm in their Water supply schemes.</p>	<p>Kindly provide both options i.e. Single/Double chamber for all required sizes of FCV to avoid monopoly of single foreign manufacturer and also to Increase the healthy competition.</p> <p>Also request to remove 4 chamber valves from the specification, not required as per BOQ.</p>	<p>The two or more chamber control valves advantage is that at any given condition the weight of the cover and trim assembly doesn't exceed the permissible weight of the single person. Thus makes the operation and maintenance of the valve easier.</p> <p>The valve with single or more chamber design should all be actuated simultaneously by a common control circuit- as determined by the required control function. The 4 chamber valve clause if deleted.</p> <p>As per original Bid</p>
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23	Main Valve, Page no. 77	Pilot Control Systems	You have requirement to SCADA Compatible Flow Control valves whereas, Pilot Control System is required for Manual type Flow control valve. Therefore, we request you to kindly remove Pilot Control System from the Tender specification	kindly remove Pilot Control System from the Tender specification	Accepted
24	Material of Construction, Page no. 77	Control tubes	Control tubes MOC is mentioned as Nylon, which will be not suitable especially in remote areas. Therefore, we request you to provide Control tubes MOC as SS 304	We request you to provide SS 304 MOC of Control tubes instead of Nylon	Nylon/SS304 both are acceptable material.
25	Valve Approved Make, Page no. 78	Valve Approved make OCV/CLA VAL/Dorot	OCV/CLA VAL/Dorot are mentioned under Valve approved make for Flow control valve. In line with Honorable Prime Minister's 'Make in India' initiative, we are an Indian manufacturer of Flow Control Valves (FCV) since last over 2 decades & we have supplied these valves to leading turnkey contractors like M/s. L&T, IHP, NCC, IL&FS, Vibrant cost., Devendra const. etc for various water supply projects all over India. We are approved vendor in Indore Municipal corporation, PHED Rajasthan, Ahmadabad Municipal corporation & Corporations of Chhattisgarh & Madhya Pradesh. Copy enclosed	Incorporate our Make (Darling Muesco) for Flow control valve in the Vendor list.	Accepted.

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26	OHAS 18001, WRAS and ISO 14001 at Page no. 78	Be certified to OHAS 18001 and ISO 14001	ISO 14001 is an Environmental Management system for reduction of pollution, is requirement of buying Govt. organization, however used as marketing tool by foreign manufacturer to enter expanding Indian Market to isolate local competition. Generally, these type or certificate required in Process and Chemicals Industries where pollution is high. Therefore, we request to stipulate ISO 9001:2008(ensure Quality products management system) instead of ISO 14001. Similarly, In case of OHAS 18001, which is an Occupational Health and Safety Certifications). Instead, Gol & NABL acknowledged testing and certification from bodies like FCRI (Fluid Control Research Institute) should be prescribed in place of irrelevant foreign standards.	Kindly provide ISO 9001:2008 instead of ISO 14001 & OHAS 18001 to avoid Monopoly & to increase competition.	OHSAS 18001 is made optional. ISO9001, ISO 14001 and WRAS Product approval is required. WRAS approves material and products. The requested certificate is for the WRAS approved valve supplied by the any manufacturer. The application may vary but the proposed valve type/series should be WRAS approved.
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27	WRAS at Page 77 under Material of Construction	Be certified to WRAS	<p>WRAS (Water Regulations Advisory Scheme) approval is for only non-metallic materials (including Coating/Painting etc) which come in direct contact with portable water to avoid contamination of water.</p> <p>In your specification, it is mentioned that valve body should be WRAS approved. Please note that body paint/coating will come in direct contact with water, not unpainted body. Therefore, Epoxy coating of valve body & non- metallic material of Valve should be WRAS approved, not Valve. Instead of such fancy international approvals (which ultimately depreciates the Indian Manufacturing potential), Govt. of India's in-house agencies like INDIAN INSTITUTE OF TOXICOLOGY RESEARCH (CSIR), Lucknow should be preferred for Potable water applications</p>	<p>Kindly stipulate WRAS approval for non-metallic materials (including Coating) only & remove WRAS approval for Valve from the specification. Also request you to provide both option WRAS /CSIR approval to avoid Monopoly & to increase Competition.</p>	As per serial no. 26
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28	Amendments in BOQ as given under :-					
7)	<p>SCADA SYSTEM (AT AMC ZONE OFFICE)</p> <p>SCADA System at Zonal Control Room for Overall Monitoring of Flow & other process data at AMC Zone Office or other suitable Location as decided by competent authority comprising of:</p> <p>a. 1 Nos. Desktop PC based HMI with min. 19" TFT LCD/LED Display & 1 no. All in One Desktop PC along with min. 40" TFT LCD / LED Display with required Licensed OS (Operating Consoles), Web based SCADA Software (Licensed Version) for Control and Monitoring along with required switches, communication ports, receiving modem, facility for GSM and GPRS / broad band connectivity, and hardware for data acquisition and storage for the data.</p> <p>b. 4TB Data Storage Device (NAS System) – 1 No.</p> <p>c. A4 Laser Printer – 1 no.</p> <p>d. 2KVA (Min.) UPS with 1 Hour Back up – 1 No.</p> <p>e. 1 No. Laptop Along with programming software</p>	Each	01	2250000.00	2250000.00	

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8)	Survey, drawing, designing, flow rate including all technical data	01 Job		Lumsum	2,25,000.00
9)	Cement Chamber including Pole with panel	Each	20 Nos.	25000	5,00,000.00
10)	Providing Training to AKVN team for 36 months & O & M with 1 Engineer & 2 helpers.	01 Job		Lumsum	9,50,000.00
29	Drawing attached.				
30	Penalty Rs. 1000 per day for not repairing the system within 48 Hours.				
31	Access to all the data are to Cloud system of M.D, MP TRIFAC & MP AKVN, Bhopal.				
32	After 3 years guarantee to supply, spare parts & technical assistance further on payment basis for next five years. Out of total 5% S.D Deposit, 3% will be released after successful completion of 3 years & 2% remaining S.D shall be released after successful completion of additional five years.				

(Approved by Chief Engineer)

**Executive Engineer
MPAKVN Bhopal**