

Madan Bhandari University of Science and Technology (MBUST)
Setopati, Lalitpur Metropolitan City Ward 18, Nepal
Date: July 25, 2023

Clarification No. 1

This is to notify all concerned that MBUST, Setopati, Lalitpur, Nepal has made following clarifications on the queries of the bidders regarding the bidding Document for the Supply, Delivery, Installment. Testing and Commissioning of Hydrogen Generator, Contract ID IFB No. MBUST/G/NCB-02/2079/80, published in the Kantipur national daily newspaper and www.bolpatra.gov.np/egp on July 2, 2023, Sunday (Asar 17, 2080).

No.	Reference of Biding Document	Client's Specification	Query from the Bidder	Response from the Purchaser
1	Technical Specification, (d): Hydrogen Gas Generator	"The proposed Gas Generator manufacturer should be an approved generator manufacturer by GC/MS manufacturing company, (Shimadzu or equivalent) a certificate in this regard should be produced with the offer. The generator must be fully compatible and functioning with GCMS-TQ8050NX.	Since the specification has asked that the Hydrogen generator is to be used with GCMS-TQ8050NX and that the generator must be fully compatible and functioning with GCMS-TQ8050NX, we have therefore understood that the proposed gas generator manufacturer must be only a Shimadzu approved manufacturer and a certificate or letter must be issued by Shimadzu only in this regard. Please advise if our understanding is correct	The offered hydrogen gas generator should be compatible with the Shimadzu GCMS-TQ8050NX. The bidder should submit a certification from Shimadzu that the offered hydrogen gas generator is compatible with GCMS-TQ8050NX.

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			<p>Please add below clause as well: Should have internal water tank of 3L or above- Please add this parameter as H2 needs water supply to generate H2 gas.</p> <p>Higher the capacity of tank like 3 Ltr, it will not need to fill in water frequently.</p>	You may supply water tank with a capacity of 3L or above. It is acceptable. Therefore, the specification will remain unchanged.
		Should have Automatic Water loading pump for minimum intervention of end user.	<p>Please delete word "Pump and add "feature" "If Pump is used, it is specific to a particular vendor PEAK Scientific, UK. This will restrict competition. Different vendor has different feature for same purpose.</p>	We need automatic water loading system. Therefore, the specification will remain unchanged.
			<p>Should have provision to connect the generator with the external alarm system. Please add this point. This is safety feature. In case of leak, generator will give internal alarm</p>	We need both internal leak detection and external leak detection system for higher safety reason as hydrogen is highly combustible gas. Therefore, the specification will remain unchanged.
	(f) Gas Selector	Supply gas setting must be recorded in GCMS software to ensure data integrity	<p>Please delete this point as this is specific to Peak Scientific. Nothing to do this feature for H2 Gas supply.</p>	The gas selector must be compatible and controlled by Shimadzu GCMS software for automatic switching and easy Operation and the gas setting must also be recorded in

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				Shimadzu GCMS software to eliminate incorrect operation of carrier gas selection. Therefore, the specification will remain unchanged.
		(k), Demonstration operation/commissioning/IQ/OQ, the specification has asked "Demonstration, commissioning should be done by the highly skilled technicians certified by manufacturers. The supplier must have at least two certified local engineers trained on for providing after sales support".	Please let us know if demonstration commissioning is only for Gas generator or we have to connect gas generator with Shimadzu GCMS-TQ8050NX and demonstrate the entire system including gas generator and Shimadzu GCMS. Regarding the availability of two certified local engineer, please let us know if this requirement is for Shimadzu GCMS.	The supplier must connect Gas generator with Shimadzu GCMS-TQ8050NX and provide demonstration for the entire system including GCMS. We have therefore asked for two certified local engineers trained on Shimadzu GCMS who can monitor and guarantee the performance of GCMS once the gas generator is connected with Shimadzu GCMS.
		(k), Documentation, the specification has asked for "Manufacturer's Authorization: Letter of Authorization from manufacturer addressing MBUST with reference to the contract number of the bid for the specified product".	There are five items mentioned in "List of goods and related service" namely: o Precision Hydrogen Trace 250cc (110v/230v) for carrier gas; o Hydrogen Sensor o Gas Selector o Pipings and filter;	Manufacturer's Authorization letters are required for Hydrogen Generator, Hydrogen Sensor and Gas Selector.

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			o Gas Purification panel for Helium, Nitrogen, Please let us know if we need to provide Manufacturer's Authorization letter for all above items.	
		(r), Location of after sale service agent, the specification has asked for "serviceability- vendor must have direct service support for Nepal, either from Nepal/or from India, engineer in the region to ensure the direct service support within 96 hours of service issues".	Please advise if this requirement is for gas generator.	After sales service is required for gas generator as well as its use and functioning with Shimadzu GCMS-TQ8050NX.
	Name of the Hydrogen Gas Generator	Precision Hydrogen Trace 250cc (110v/230v) for carrier gas in the page no. 49 (Price Schedule for Goods), page no. 55 (List of Goods and Related Services) and page no. 56 (Delivery and Completion Schedule)	We have noted the name mentioned PRECISION HYDROGEN TRACE 250CC name mentioned in bid document such as price schedule Pg no 49, delivery and complete schedule pg no 55, 56 ETC is specific to a Vendor PEAK SCIENTIFIC and their model Precision Hydrogen Trace 250 GC Carrier Gas.	Name has been amended as "Hydrogen Generator 250 CC" in Technical Specification, page no.49, 55 and 56, Please refer to Addendum Notice No. 1

Prof. Rajendra Dhoj Joshi
President
Date: July 25, 2023