

**NOTICE INVITING REQUEST FOR PROPOSAL (RFP) FOR UPGRADATION OF HVAC CONTROLS AND COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT FOR INTEGRATED BUILDING MANAGEMENT SYSTEM IN BANK OF BARODA, BARODA CORPORATE CENTRE, C-26, G-BLOCK, BANDRA KURLA COMPLEX, BANDRA (EAST), MUMBAI**

(RFP Reference: BCC/SEC/111/S-41/692 Dated: 24/10/2019)

**ADDENDUM Dated: 08/11/2019**

We refer to the Pre-Bid Meeting held at our Baroda Corporate Center, BKC, Mumbai on 4<sup>th</sup> November 2019 at 1100 hrs wherein queries were raised by the prospective bidders communicated to us through email.

Accordingly, the addendum for the RFP reference BCC/SEC/111/S-41/692 dt: 4<sup>th</sup> November 2019 is as under:

S.No.	Vendor	Clause	Query	Bank's Clarification
1		-	Detail IO Summary for BMS DDC estimation	Bidder can prepare the I/O summary based on the site survey and installed HVAC
2	Johnson Controls (I) Limited	-	Field devices types are not mentioned in the tender document.	The HVAC Controls field devices will be constituting of 1. Actual Temperature Reading Sensor. 2. AHU Actuator valve % (Auto / Manual) 3. AHU On / Off Status & Command. 4. AHU trip status. 5. Duct Air Differential Pressure Sensor Status. 6. AHU Differential Pressure Sensor Status 7. Variable Frequency Drive (VFD) Status. 8. Set Temperature Control from Software. 9. Weekly Scheduling (AHU On/Off). 10. Operation Mode / Auto Mode program. 11. BMS On/Off Command. 12. Supply Air Temperature Status.
3		Annexure VIII	FAS Software integration to be added in the BOQ	It is been added in our updated Annexure VIII (Attached). Bidders are required to furnish their quote in the revised BOQ.
4		-	Consideration AHU VFD hardware & soft integration in BOQ	AHU VFD software integration needs to be considered and the

				additional field devices are listed above in the query 2.
5	Johnson Controls (I) Limited		Request to modify BMS specifications based on BACNet based open protocol system.	As of now Bank is not looking for any new modification.
6		Annexure VII	Johnson Controls name in not in approved make list.	Johnson Controls name is added in approved make list attached with is addendum.
7		Clause – 5 (f)	Installment after virtual completion - 50% Security deposit to be decreased to 20%	The clause – 5(f) remains same.
8		Clause – 8	Performance Bank Guarantee – Bank is flexible to accept DD for 10% PBG retention	PBG shall be issued by a scheduled Bank for 10% of the estimated contract value. Retention shall be deducted as per the rates prescribed in the RFP at different stages.
9			As per as PBG retention for CAMC is concern, it will be challenging for us to accept PBG for CAMC contract	The clause – 8 will remains the same.
10		Clause – 29	The following to be added in Indemnity - To the maximum extent permitted by law and notwithstanding any provision to the contrary in this Contract, Seller's aggregate liability hereunder for any loss, damage and expenses arising out of or in connection with its performance of this Contract shall be limited to the contract price paid by the Purchaser to Seller for the Goods/services hereunder. The Seller should not be liable to Purchaser for any indirect, special, consequential loss or damage whatsoever.	The Clause – 29 will remains same.
11		Clause - 21	This Clause need to remove from Tender as this clause is not applicable to BMS scope of work	Deleted.
12		Clause – 31	We would request to make this clause mutual	The Clause – 31 will remains same.
13		Clause – 5 (d)	We request you to kindly cap Liquidated Damages (Penalty) Clause for installation.	Liquidated Damages will be 1% per week and maximum upto 10% of the contract value.

Bidders are advised to take note of the above points while submitting the RFP. If required, the interested bidders may visit the site before submitting the bids.

The above shall be complementary in contents with the existing terms and conditions of the RFP except otherwise explicitly superseded. Other terms and conditions of the tender shall remain unchanged.

The addendum shall form part of the RFP. The same shall be sealed and signed as acceptance of those conditions without any modifications and submitted along with the Bid. Non-Acceptance of the Addendum by the Bidder or adding any other condition shall be treated as conditional RFP and will not be considered, hence rejected.

**BCC/SEC/111/S-41/719**  
**Dated: 08/11/2019**

**Sd./-**  
**Chief Security Officer**

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**FINANTIAL BID**

**(A)**

Sr no.	Item	Qty	Unit	Rate/Unit	Amount (Excluding GST)	GST / IGST (Percentage)	Remarks
	<b>HVAC Controls</b> A) Design, Supply, Installation, Testing, Commissioning & Handing over the Building Management System (BMS) and allied systems as per specifications as below.						
1	BMS System Software : Web Based Graphical Software meeting the requirements in the Given I/O Summary and technical specifications including configuration and facility to create /provide the graphic mapping for all I/O Summary points , animate the Graphics, Navigation between pages, display of logs, changing the time zones, popup alarms, configurable password protection for Building Management System as per Specifications. Software shall be able to communicate with Lonworks, Bacnet, Modbus devices simultaneously, with unlimited user capacity. Same software can be utilized as programming / commissioning software of DDC, NAC etc. (All required Software with original license competent with BMS software) Software should be capable to send alarms over email/mobile	1	No.				
	<b>FIGURE IN WORD (Excluding GST):-</b>						
2	Web Based Router / Network Area Controller interfacing the DDC controllers and Integrator for interfacing Modbus RTU Unit, Bacnet IP /MSTP , Open Protocol Software Integration. It has capacity to store trends & program backup. It should be BTL & UL Listed and shall be of the same make as DDCs	1	No.				
	<b>FIGURE IN WORD (Excluding GST):-</b>						
3	<b>UL and BTL Automation stations / DDC Controller for AHUs.</b> The controllers shall be 32 bit microprocessor based standalone with real time clock. The DDC's shall be capable of peer to peer communication with other DDCs and then to router Also with lockable MS mounting cabinets duly powder coated connector strip, internal wiring and space to house controller & relays, <b>connector strip current transformer, MCB, internal</b>	1	Lot.				



	wiring. (Contractor shall confirm his I/O provision w.r.t requirement on basis of data point). DDCs requiring more than 2 additional Plug in type IO Module cards or expansion modules to suffix the requirement of required inputs/outputs are not acceptable. Use of AI to DI multiplexer is also not acceptable. DDCs shall be compact factory fitted with IO Points.						
	<b>FIGURE IN WORD (Excluding GST):-</b>						
4	B) Sensors and field devices	0		0.00		0.00	Existing sensors to be utilized.
5	Supply and Installation of DDC Panel	1	No				
	<b>FIGURE IN WORD (Excluding GST):-</b>						
6	Supply and Laying of 2x1.5 sq mm armored cable	0	mtrs			0.00	To be provided by the bank.
	<b>FIGURE IN WORD (Excluding GST):-</b>						
7	Supply and Laying of 4x1.5 sq mm armored cable	0	mtrs			0.00	To be provided by the bank.
	<b>FIGURE IN WORD (Excluding GST):-</b>						
8	CAT6 cable supply and laying	0	mtrs			0.00	To be provided by the bank.
	<b>FIGURE IN WORD (Excluding GST):-</b>						
9	Supply and Laying of PVC pipe for CAT6 cable	300	mtrs			0.00	To be provided by the bank.
10	Computer with attached printer	1	No.			0.00	To be provided by the bank.
10	Dismantling of existing system	1	lot				
	<b>FIGURE IN WORD (Excluding GST):-</b>						
11	Testing and commissioning of the system along with the GUI implementation	1	Lot				
	<b>FIGURE IN WORD (Excluding GST):-</b>						
14	Conducting , Wiring and cabling	0	Mtrs.			0.00	To be provided by the bank.
	<b>FIGURE IN WORD (Excluding GST):-</b>						
15	FAS Integration with HVAC Controls	1	LS				
<b>A</b>	<b>Total of work: Upgradation of HVAC Controls (Excluding GST)</b>						
	<b>TOTAL FIGURE IN WORD (Excluding GST):-</b>						

*\*Note: - 1. The unit rate are including delivery charges, installation charges etc. and exclusive of all GST.*

## APPROVED MAKES FOR BMS

S.No.	Details of Materials / Equipment	Manufacturer's Name
1.	Standalone DDCs	WEBs / Alerton / Spyder / Siemens (PX SERIES) / Johnson Controls / Equivalent.
2	Web Based BMS Software with unlimited user license	SIEMENS (DESIGO INSIGHT) / WEBs / ALERTON) / Johnson Controls / Equivalent.
3	Web Based Router / Network Area Controller	WEBs / Alerton / Siemens / Johnson Controls / Equivalent.
4.	Immersion Temperature Sensor	Honeywell / Alerton / Siemens / Johnson Controls / Equivalent.
5.	Duct Temperature Sensor	Honeywell / Alerton / Siemens / Johnson Controls / Equivalent.
6.	Outside Air Temperature Sensor	Honeywell / Alerton / Siemens / Johnson Controls / Equivalent.
7.	Room Temperature Sensor	Honeywell / Alerton / Siemens / Johnson Controls / Equivalent.
8.	Duct Humidity Sensor	Honeywell / Alerton / Siemens / Johnson Controls / Equivalent.
9.	Room Humidity Sensor	Honeywell / Alerton / Siemens / Johnson Controls / Equivalent.
10.	Flow Meter	Schenitech / Honeywell / Kampstrup / Johnson Controls / Equivalent.
11.	Duct Static Pressure Sensor	Honeywell / Alerton / Siemens / Johnson Controls / Equivalent.
12.	Water Level Switch	Veksler / Filpro / Sontay / Johnson Controls / Equivalent.
13.	DP Switch – Water	Honeywell / Siemens / Johnson Controls / Equivalent.
14.	DP Switch – Air	Honeywell / Siemens / Johnson Controls / Equivalent.
15.	CO2 Sensor	Honeywell / Siemens / Johnson Controls / Equivalent.
16.	Water Flow Switch	Honeywell / Alerton / Siemens / Johnson Controls / Equivalent.
17.	Pressure Transmitter – Water	Honeywell / Alerton / Siemens / Johnson Controls / Equivalent.
18.	Current Relay	Veris / Seto / Mamac/Omron / ABB / Equivalent.
19.	Voltage / Current / Power Factor Transducer	SETO / ABB / L&T / Enercon / SETCO / Equivalent.
20.	Flame Proof Level Switch / Level Transmitter	Veksler / Filpro / Sontay / Techtrol / Equivalent.
21.	PH Sensor / TDS Sensor	Honeywell / Hach / Greisinger / Johnson Controls / Equivalent.
22.	Personal Computer	HP / DELL / LENOVO / TOSHIBA / Equivalent.
23.	Copper Conductor Control Cable	Finolex / Skytone / Delton / Fusion Polymers / Polycab / Excel / Equivalent.
24.	Communication Cables / Signal Cable	Finolex / Skytone / Delton / Fusion Polymers / Polycab / Excel / Equivalent.
25.	LAN cables for BMS Network	Belden / D-Link / Avaya / Equivalent.
26.	PVC Conduits	BEC / AKG / Equivalent.

**Note:** The final approval of items mentioned shall rest with architect, client and Bank from any of the list mentioned above.

**Note :** All materials should be purchased from Manufacturers/ authorized dealer and Bank may directly instruct the quality control team of the companies to visit the site to examine the genuineness of materials.

**WITNESS**

**(Seal & Signature of the Tenderer)**