



## NAYA RAIPUR DEVELOPMENT AUTHORITY

Utility block, Capitol Complex, Sector- 19, Naya Raipur- 492 002, Chhattisgarh  
Tel No: + 91 771 2511500; Fax No.: +91 771 2511400., Website: [www.navaraipur.com](http://www.navaraipur.com)

### Corrigendum -1

Date: 13/10/2016

**Name of the Work:** “Supply, Installation, Testing , Commissioning & Three year’s Comprehensive maintenance of HVAC system and other allied accessories for Retail Complex building at sector-21 of Naya Raipur”

With reference to NIT No.105 /HVAC/RB/ELECT/CE(E)/NRDA/2016-17, Naya Raipur  
Dated: 21.09.2016; The following Corrigendum-1 is made.

Sr. No.	Description	In place of	Read As
01	Last Date and time of submission of Tender	18-10-2016 15.00Hrs	& 26-10-2016 & 15.00Hrs
02	Date and time of opening of Tender	18-10-2016 16.00Hrs	& 26-10-2016 & 16.00Hrs

**Clarifications based on Pre bid queries received is provided in Annexure A .The same shall form part of agreement .All other terms and condition shall remain same.**

नया रायपुर – मेरा रायपुर

Chief Executive Officer

**ANNEXURE A**

**Reply to Pre Bid Queries**

**Supply, Installation, Testing , Commissioning & Three year's Comprehensive maintenance of HVAC system and other allied accessories for Retail Complex building at sector-21 of Naya Raipur**

**NIT No. 105 /HVAC/RB/ELECT/CE(E)/NRDA/2016-17, Naya Raipur**

**Dated: 21.09.2016**

Sl.	No. Title/Item No.	Description	Bidders Queries	Clarification/New Items
1	<b>Performance Guarantee:</b>	The contractor shall submit an irrevocable Performance Guarantee of 5% (Five percent) of the tendered amount in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement. This guarantee shall be in the form of Cash (in case guarantee amount is less than Rs. 10,000/-) or Demand Draft of any scheduled bank/Pay Order of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or of any Scheduled /Nationalized Bank in accordance with the form annexed hereto	Kindly clarify Bank Guarantee is acceptable for value beyond Rs. 1,00,000/-	Bank Guarantee can be considered ,provided in the format supplied By NRDA and Operatable at Raipur
2	<b>Recovery of Security Deposit</b>	The person/persons whose tender(s) may be accepted (hereinafter called the contractor) shall permit NRDA at the time of making any payment to him for work done under the contract to deduct a sum at the rate of 5% of the gross amount of each running bill till the sum along with the sum already deposited as earnest money, will amount to security deposit of 5% of the tendered value of the work. The security deposit shall be collected from the running bills of the contractor at the rates mentioned above and the Earnest money deposited at the time of tenders will be treated as part of the Security Deposit. The security deposit as deducted above can be released against bank guarantee issued by a scheduled bank, on its accumulations to a minimum of Rs. 5 lac subject to the condition that amount of such bank guarantee, except last one, shall not be less than Rs. 5 lac	Please clarify as to EMD amount is 11 Lacs which more than 5% of CV (Sum of both security deposit @ 5% on each running bill + EMD money).	No change
3	<b>Compensation for Delay:</b>	Compensation for Delay: @ 1.5 % per month of delay to be computed on per day basis. Provided always that the total amount of compensation for delay to be paid under this Condition shall not exceed 10% of the Tendered Value of work or of the Tendered Value of the item or group of items of work for which a separate period of completion is originally given	We request you to keep 5% as the maximum outer limit	No change
4	<b>Defects Liability</b>	Twenty four months (Twelve months in the case of work costing Rs. Ten lacs and below except road work) after a certificate final or otherwise of its completion shall have been given by the Engineer-in-Charge -	Request you to accept the standard clause of DLP, which is either 15 months from the date of Supply or 12 months from the date of Handing over	No change

Sl.	No. Title/Item No.	Description	Bidders Queries	Clarification/New Items
5	<b>Indemnity Bond</b>	The Contractor shall require to execute an Indemnity Bond for satisfactory performance of the entire project on stamp paper of Rs.100/- (Rupees Hundred only) in the format approved by the NRDA. This Indemnity Bond shall remain in force for the Defect Liability period after completion of the project	We request you to give us waiver for indemnity Bond	No change
6	<b>Penalties for failure to achieve the functional guarantees during Defect liability Period</b>	In case of failure to deliver the required quality of work, liquidated damages shall be imposed for such failure to meet the performance criteria, as described below. The Employer will be entitled to recover any such damages from Maintenance bill, the security deposits of the contractor or any other sum due to him. However, the contractor shall be allowed to take up routine/ periodical maintenance as per IS guidelines and mentioned in technical specification.  Non redressal of any complaint or instruction given in writing by NRD/NRDA authorized representative within 4 hours: Penalty @ Rs. 5000.00 for each such complaint –	We request you to give us waiver as the penalties are covered under compensation of delay	No change
7	<b>PAYMENT TERMS</b>	a. As advance against receipt of bank guarantee (as per approved proforma) for equivalent amount - 5% b. On approval of Shop drawings- 5% c. After delivery of items at site- 65% d. After Installation, testing and commissioning at site -10% e. For 1st year Maintenance period @ 0.75% for each quarter -3% f. For 2nd year Maintenance period @ 1.25% for each quarter -5% g. For 3rd year Maintenance period @ 1.75% for each quarter -7%	As an industrial practice across the country, the payment terms shall be of 100% covering upto Commissioning of the system, and Maintenance is kept separate and shall not form part of the main contract. We request you to bifurcate the contract into two entities viz., Supply, Installation, Testing and Commissioning of HVAC system with 100% payment terms and yearly Maintenance as per agreed annual rates	<b>Read as</b> a. As advance against receipt of bank guarantee (as per approved proforma) for equivalent amount - 5% b. On approval of Shop drawings -5% c. After delivery of items at site -65% d. After Installation, testing and commissioning at site -10% e. For 1st year Maintenance period @ 0.75% for each quarter- 3% f. For 2nd year Maintenance period @ 1.25% for each quarter -5% g. For 3rd year Maintenance period @ 1.75% for each quarter- 7%  <b>Note-</b> A- Total amount quoted for SITC and O& M shall be consider for evaluation of the lowest bidder . B- In case of the O& M quote is less than 15 % of the total bid value .The payment of SITC shall be restricted to 85 % of the total amount of contract as per the detail payment break up in tender. C- The separate agreement made with the bidder one for SITC and other for O & M, for the purpose of taxation clarity D- The PG /SD/ other clause such as penalty shall be operated on the total contract value.
8	<b>DETAILED NIT</b>	Page no 6 of 7 clause no- 27. All royalties be paid by the contractor as also all tolls, duties, local and other levies including sales tax, insurances & workman compensation act etc.	We request you to confirm, whether we need to include service tax (@ 15 %) in the unit rate or not	
9	<b>Bill of quantity</b>			
a	BILL OF QUANTITY Sr No 1.1	Chiller cost include with Temperature Gauge, Pressure Gauge, Strainers, etc. on supply and return line (excludes sensors & control system).	Strainers are given in the BOQ Saperately in sr no 7.1.7. Kindly confirm the Strainers that are part of individual chillers are billable as a separate line item or it should part of Chiller pricing?	Strainers for chillers at inlet pipe connections are included in Chillers, apart from this any additional requirement will measured separately as per BOQ.
b	BILL OF QUANTITY Sr No 1.1.1.2 B, 1.1.1.3 B	Vibration Isolators for Seismic IV zone	As per norms, Raipur is not in Seismic IV zone. Kindly confirm the requirement of same.	Quote as per BOQ.
c	BILL OF QUANTITY Sr No 1.1.1.2 D, 1.1.1.3 D	Chiller System Manager	Kindly provide the I/O summary to understand the exact requirement of Chiller plant Manager	Chillers system manager as per technical specification 1.6
d	BILL OF QUANTITY Sr No 2.1	Pump cost include with Temperature Gauge, Pressure Gauge, Strainers, etc. on supply and return line (excludes sensors & control system). For both primary and secondary pump	Strainers are given in the BOQ Saperately in sr no 7.1.7. Kindly confirm theStrainer that are part of Pumps are billable as a separate line item or it should part of Pump pricing?	Strainers for Pumps at inlet pipe connections are included in Chillers, apart from this any additional requirement will measured separately as per BOQ.

Sl.	No. Title/Item No.	Description	Bidders Queries	Clarification/New Items
e	BILL OF QUANTITY Sr No 2.1.3.2 & 2.1.4.2	Pump logic controller capable of controlling 3 pumps in parallel specially designed for VSPS pumps in parallel & expandable to control upto 6 pumps in parallel.	As we have 3 nos of secondary chilled water pump for each building, do we need to consider Pump logic controller for 3 nos of pump or 6 nos of pumps?	Pump logic controller capable of controlling 3 pumps in parallel specially designed for VSPS pumps in parallel & panel shall be expandable to control up to 6 pumps in parallel for future requirement.
f	BILL OF QUANTITY 3.1.1.1	Rectangular structural beam or channel concrete form for floating foundations, concrete reinforcement bars, rust resistance spring isolators on 1/4" neoprene acoustical pads etc. - Qty : 6 Nos	Qty mentioned is only of 6 Nos. Kindly confirm as to consider foundation blocks for all pumps.	Please consider fondation block for all pumps, qty revised as 12 nos.
g	BILL OF QUANTITY 4.1.1	AHU cost include with Complete chilled water piping station in AHU Room to include pipes , Main Butterfly valve,Pressure Independent Dynamic balancing cum 2 way motorised actuator temperature control valves, Bypass valves / Isolator valves, Temperature Gauge, Pressure Gauge, Strainers, etc.(excludes sensors & control system).including Thermostat to control temperature.	Butterfly valve, & balancing valves are given in the BOQ Saperately in sr no 7.1.2, 7.1.3. Kindly confirm the valves that are part of individual AHUs are billable as a separate line item or it should part of AHU pricing?	The valves described in BOQ are for other areas, valve station for AHUs to be considered in AHUs as described in BOQ.
h	BILL OF QUANTITY 4.1.1	Chilled water & drain pipes to be insulated with 25 mm (19 + 6 mm) Armaflex class 'O' nitrile rubber & finished with glass cloth, FOSTER 30-36 coat & final finished with 24G Al. cladding within AHU Room.	Chilled water Pipes with insulation are given in the BOQ Saperately in sr no 7.1.1. Do we need to estimate above materials with AHU too?	Chilled water and drain pippes with insulation in AHU room are to be considered with AHUs as described in the BOQ.
i	BILL OF QUANTITY 4.1.1	<b>As per BOQ:</b> Double skin cabinet type AHU with backward curved centrifugal direct driven plug type fan, <b>As per Specification page no 26 of 114:</b> 4.4 The fan shall be backward curved, double inlet, double width type.	Request to confirm, which type of fan to be considered?	Backward curved, DIDW, Direct driven plug type fan.
j	BILL OF QUANTITY 4.1.1	Total No of AHUs given in the BOQ are 14 nos. However in schematic layout, no of AHUs are more. Chiller capacity is not matching with the capacity of AHUs.	Request to re check the tenderer scope of work for AHUs.	Please quote as per BOQ.
k	BILL OF QUANTITY 8.1	SHEET METAL DUCTING SMACNA STANDARDS ROLASTAR Ducting System with ROLAMATE System Components	As per BOQ, Only Rolastar is in approved make. However as per approved make list, Alphaducts / Nutech / Rolastar / Zeco are available. Which one to be considered?	Please consider all the make as per list of makes.
l	BILL OF QUANTITY 7.7	Chilled Water Dosing System for two chilled water system for 200 tr & 170 tr chiller system	In BOQ, make (Chemguard) and model no are mentioned. However in approved make list <b>Aqua Bird / Water Treatment Co./ ION Exchange</b> are available. Which one to be considered?	Please consider all the make as per list of makes.
m	BILL OF QUANTITY 7.2 & 7.3	To install BMS equipment given by BMS vendor including Valves, fitting, flanges, insulation etc.for 170 Tr and 200 TR Chiller System	Kindly confirm the scope of BMS system, along with detailed IO summary list.	Contractor scope of work to install BMS accessories provide by BMS vendor e.g. sensors, flow switch etc,
n	BILL OF QUANTITY 10	Electrical panel	Approve make list is not available. We are considering panel manufacturer <b>Rupa Electric / Gen Power / C&amp;S / Paradigm/EAP/AdhuniK switchgear/</b> as they are our regular supplier.	Please consider following list of makes - <b>ABB-Artuk / L&amp; T - Tie Panel / Siemens - Sivacon / Schneider - Blockset</b>
o	BILL OF QUANTITY 10	Electrical panel	Please indicate the location of panel to consider low side accessories.	The panel will be located on the Terrace in vicinity of Chiller plant.
p	BILL OF QUANTITY 10.1 & 10.2	Floor mounted (IP 54) cubicle type compartmentalised dust & vermin proof Electrical Main Airconditioning central pane for System 1 duly painted by 7 Tank painting process in 14/16G with draw-out type ACB and MCCB, required to cater to Chillers, Pumps, <b>Fans</b> , etc in the Plant Room	In MCC Panel, feeder for which fans need to be considered?	The panel is designed for Chiller and Pumps.
Q	BILL OF QUANTITY 4.1.1.3	Ceiling Suspended Additional insulated drip tray to extended 150 mm beyond AHU & valve station	Ceiling suspended – Kindly arrange to inform the static pressure and the Type of Filters to be considered	Please refer item no.7 & 8 of page 98 of 114 technical specification table - IV ( AIR HANDING UNIT)
10	Technical specification			

Sl.	No. Title/Item No.	Description	Bidders Queries	Clarification/New Items
a	Page no 96 of 114 from Tender HVAC specs	For Primary pump, starter type has been mentioned as VFD Type	Please clarify the requirement as Primary pumps are constant flow pumps which does not require VFDs to control the speed.	Primary pumps are constant flow.
b	Type of insulation of duct	Duct insulation	Kindly arrange to provide the type of insulation to be provided for Thermal Insulation of duct	Please refer technical specification item no. 7.2.2 page no 41 of 114
11	<b>Make list</b>		Only one or two makes of the Ventilation and exhaust fans are indigenous makes, due to which it is taking time for taking final quotes from them.	only consider approved make list in tender document
12	<b>General</b>		Kindly arrange to provide the BOQ of the Electrical Panel for working of the same.	Please refer BOQ item no .10 for the electrical panel for chiller and pumps. For the fans the panels part of fan BOQ respectively
			Please arrange to provide the AC Plant details for the Theatre. Also kindly arrange to provide the details of the Allied Low side equipment for the Theatre area.	Air conditioning of theater is not under present tender ,please quote as per BOQ
			Kindly arrange to provide the angle of Deflection of the linear Grills.	shall be finalized at the time of approval of shop drawing
13	Note :- Condition			The minimum quoted rate will be considered for same description of items