

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES,
ANSARI NAGAR, NEW DELHI**

Dated: 20.02.2015

AMENDMENT No. - II

Project Name: Construction of Hospital, OPD & Other Associated Services and their Maintenance during Defect Liability Period for National Cancer Institute at Badsha, Jhajjar, Haryana

Tender No.: HSCC/NCI-JHAJJAR/HOSPITAL/2015; Dated: 31.01.2015

Reply to Pre Bid Queries raised by bidders during pre -bid meeting held on 12.02.2015 at AIIMS Campus, New Delhi

S.No.	Page No	Clause, Section, Vol No., Specification/ BOQ Reference	Description	Pre-Bid Queries	Reply
		STP, WTPI & ETP			
1		Vol 4, SCC, 14.0	Reverse Osmosis (R.O.) Plant for process and drinking Water	RO Specification mentioned in Technical Specs, Please provide inlet parameters and flow	The final parameter of requirement and out come are mentioned in the respective BOQ item and specification. The treated effluent shall be meet the state pollution Control Board Norms.
2		Vol 5, BOQ, 12.0	Effluent treatment plant	Please provide inlet parameters	The final parameter of requirement and out come are mentioned in the respective BOQ item and specification. The treated effluent shall be meet the state pollution Control Board Norms.
3		STP, ETP and WTP	STP, ETP and WTP	Please provide drawings with available clear height, invert level of sewage & effluent, marked location of STP, ETP and WTP	These are to be constructed/planned under the institutional campus where this work is to be constructed.. Design of STP & ETP are in the scope of contractor.
		LV System			
4		Boom Barrier	Make List	Kindly provide the list of make required for Boom Barrier part.	Rib, FAAC, Aprimatic, Magenetic,
5		Cables	Make List	Kindly provide Varsha or Deepanjan make for the same,	As per make list

		HVAC			
6		Specs-AC-page-84	Tender specification 3.0 (e) Fan motor shall be selected in such a way that sound level is lowest (max. 75 db at 1m distance) while running.	This noise level cannot be achieved in these type of fans. To achieve require db level further acoustic treatment is required. Request you to amend the sound level 85 db(A) at 3 m distance.	No change in tender conditions
7		Specs-AC-page-80	Tender specification 2.2 (c): Noise level shall not exceed 75 db (A) at 1 mt. Distance from the equipment.	The require noise level can be achieved at 3 m distance.	No change in tender conditions
8		BOQ, SI.No. 9.5	As per BOQ Vane Axial Fans (Fie rated) is mentioned while description suggest for tube axial fans.	Kindly clarify vane axial or tube axial fans are required.	Vane axial fan.
9		Specs-AC-page-83	Tender specification : specify that casing shall be 2mm thick MS for impeller dia. Upto 600 mm & 2.5mm thick MS for impeller dia. Above 600mm	Request you to accepts the material thickness and construction of casing for fans shall be as approved manufacturer standard	Shall be as per approved manufacturer standard.
10		Specs-AC-page-84 & 86	Tender specify the speed of the fan shall not be exceed 960 RPM for fan with impeller dia. Above 450mm and 1440 RPM for fan with impeller dia 450 and less	Speed of the fans depends upon the fan manufacturer recommendations based on the applicatin mentioned in the BOQ. Restriction of the fan speed may lead to over sizing of the fan, which may not be optimum selection. Fan speed need to be allowed upto 1450 rpm for fan dia upto 1120mm	No change in tender conditions
11		Specs-AC-page-117	the chilled water and drain pipes shall be insulated with 'TF'quality expanded polystyrene. As per BOQ item no. 14 Chilled water pipe shall be insulated with resin bonded fiber glass pipe section	Request you to clarify the material of insulation for chilled water pipe.	Shall be as per BOQ.
12		BOQ-AC--34	Chilled water pipe insulation	Provide the thickness of insulatin for chilled/drain pipe.	Upto 150 mm: 50 mm 150 to 400 mm: 75 mm above 400 mm: 100 mm
13		Specs-AC-page-145	Fire Dampers	As per technical specification, the fire & smoke dampers shall be of at least 90 minutes fire rating certified by CBRI, Roorkee as per UL 555:1973, whereas in list of approve make all fire damper shall be UL listed. Clarify the same.	No change in tender conditions

14		Specs-AC-page-100	Duct Material	Request you to accept the type of joints of duct as TDC in place of Angle iron frame.	Factory fabricated duct with SMACNA standard and TDC flange.
15		Request you to Approve the following additional make :			
15.01		Specs-AC-Page-143	Centrifugal Chilling units with VFD (ARI Certified)	Danhum bush	No change in tender conditions.
15.02		Specs-AC-Page-143	Pumps coupled with VFD	Armstrong	No change in tender conditions.
15.03		Specs-AC-Page-143	VFD for AHU	Fuji	No change in tender conditions.
15.04		Specs-AC-Page-143	Fan Coil Units	Edgetech/Zeco	No change in tender conditions.
15.05		Specs-AC-Page-143	Air washer	Edgetech/Zeco	No change in tender conditions.
15.06		Specs-AC-Page-143	Centrifugal/Axial flow fans/tube axial	Greenheck/Airflow	No change in tender conditions.
15.07		Specs-AC-Page-144	VRV/VRF	Media	No change in tender conditions.
15.08		Specs-AC-Page-144	AHU/ventilation electrical panels	System power control	No change in tender conditions.
15.09		Specs-AC-Page-144	Control cables	Polycab/skytone	No change in tender conditions.
15.10		Specs-AC-Page-144	Cable tray	Slotco	
15.11		Specs-AC-Page-145	Factory fabricated duct	Voltas	No change in tender conditions.
15.12		Specs-AC-Page-145	Grilles/Diffusers/Volume Controller	Servex/Airflow	No change in tender conditions.
15.13		Specs-AC-Page-145	Butterfly Valves	Castle/Advance	No change in tender conditions.
16		General	Chiller	Please see the attached separate sheet for Carrier make clarification	Not found.
17		BOQ No. 1.4	Plant Room Manager	Please provide us IO Summary	Shall be as per tender, will be done by the chiller supplier.
18		BOQ No. 2.3 c.	Condenser water pumps	Insulation is not required in condenser water pump. Please confirm.	No insulation required.
19		BOQ No. 3.0	Cooling Tower	Specification of cooling tower does not ask for CTI certified cooling tower requirement whereas it is asked in BOQ, so please clarify that CTI certified Cooling Tower is required or not?	CTI certification required.
20		BOQ No. 5.1j. & k	AHU	Please provide sizes and quantity of 2 way valves. Also please provide the length of cables required for interconnection.	Shall be as per flow rate of AHUs.
21		BOQ No. 5.1, 5.1.45	AHU	In Units with HRW return air CFM is not given. Please specify. Also provide static pressure for return air CFM.	Shall be as per requirement.
22				Do we need to consider gap between two coils. If yes, how much.	Yes, 300 mm between each coil.
23		Specification, AHU 2.4	AHU	We request you to accept Pre-coated coated GI sheet of 0.8mm instead of CRC sheet.	No change in tender conditions.
24		BOQ No. 5.6 g	Vantilation Fam Section	Please provide the length of cables required for interconnection with AHU starter.	No change in tender conditions.

25		BOQ No. 8.0	Air Washer	Please provide the length of cables required for interconnection with starter.	No change in tender conditions.
26		BOQ No. 9.1	Inline Fans	Please provide the length of cables required.	No change in tender conditions.
27		BOQ No. 10.0	Expansion tank	Please provide the dia. Of Air separator.	No change in tender conditions.
28		BOQ No. 11.0	PHI Systems	Please provide the specification of Ozone Generator and PHI systems.	Shall be as per BOQ.
29		BOQ No. 17.1	GSS ducting	We request you to accept 120 GSM coating for 18 G duct. Please accept all factory fabricated duct as per SMACNA standard.	No change in tender conditions.
30		Specification	Centrifugal Fans/Axial Fans	Noise level of fans 85 dBA @ 3m instead of 75 dBA @ 1 m asked in tender.	No change in tender conditions.
31		Specification	Axial Flow Fans	Noise level of Fans 85 dBA @ 3m instead of 75 dBA @ 1 m asked in tender. Thickness of casing material shall be as per manufacturer standard.	No change in tender conditions.
32		BOQ SI.No. 9.5		Vane Axial Fans (Fire rated) is mentioned while description suggest for tube axial fans. Kindly clarify vane axial or tube axial fans are required.	Vane axial fan.
33		General	Electrical Panel	As per common specs of Bill of Quantity, all outgoing shall be provided with Stop/ Manual/Auto selector switch to facilitate operation through BAS with RS 485 communication ports. But in BOQ, there are some MCCBs with Thermal Magnetic based release. Port can only provide with microprocessor based MCCBs. Please clar, should we consider port for all outgoing?	No change in tender conditions.
34				Please mention the parameters of multifunction meters for incomers as well as all outgoings.	No change in tender conditions.
35				Should we also consider ammeter for starters?	No change in tender conditions.
36		BOQ No. 22.3	Jet Diffuser	Please note that the Jet diffuser comes in dia. Basis. So please confirm us the dia. And quantity in numbers.	No change in tender conditions.
37		BOQ No. 7.2	Ductable Hideway Indoor Unit	Please note that indoor unit for 1.65 TR are not avialable so we request you to accept 1.57 TR indoor unit.	Shall be as per tender or higher capacity.
38		Specs	Ducting	Ducting shall be with TDF flanges as per IS 655, 2006 edition.	Factory fabricated as per SMACNA standard with TDF flanges.

39	112	Schedule F / Vol02GCC	Table for Mile stone	We request you to amend the clause such that contractor shall complete the work based on the over all contract duration of 30 months. Hence, there shall not be any retention towards this.	No change in tender conditions
40		Clause 2	Compensation for Delay	We request to amend the clause as 1% per month of delay and max. not exceeding 5% of the Tender Value	No change in tender conditions
41			Makes of Material	Kindly confirm whether we can propose alternative makes other than makes mentioned in the Approved list.	Shall be dealt as per tender condition.
42	113	Clause 10B / Schedule F	Mobilisation Advance	We request to provide the applicability of mobilisation advance clause in Schedule F to "Yes".	Mobilisation advance is not applicable and will not be paid.
43	35	Clause 10B	Mobilisation Advance	We request to issue interest free mobilisation advance.	Mobilisation advance is not applicable and will not be paid.
44	35	Clause 10B	Mobilisation Advance	Request to amend the Recovery of Advance in Running Bill From 20% of CV Till 90% of CV	As mobilisation advance is not payable, this is not applicable
45	113	Clause 10CA	Price variation	We presume that 10CA is applicable for Cement, Reinforcement steel and Structural steel. Kindly confirm it.	Clause 10CA is applicable only for Cement and Steel reinforcement bars & Structural steel and not for any other materials. The Details for Amended conditions is attached at Annexure - A
46	114	Clause 10CC	Price variation	We request to modify the % of component as follows since, Cement and steel covers 15% to 20% of component for price variation. Materials X _m = 50% + Labour Y = 25% + POL Z = 5%	No change in tender conditions
47	5	iv / Vol03SCC	Approval required	Since, this being the item rate contract all the approvals / clearance like Construction permit, MOEF, Civil Aviation and Occupancy certificate are part of Client scope. The contractor shall responsible only for construction related approvals. Also, as we found that all the MEP works are not considered in this package, obtaining approvals except HVAC, Transformer, DG, Lifts and Medical system which are not in the present scope of work is critical. Kindly confirm it.	No change in tender conditions

48	35	31.e / Vol03SCC,	Retention	We presume that there is no cash retention as per GCC. Hence, 2.5% of BG only to be provided within 30 days from LOI. Kindly confirm it.	Please Refer pg-35 Clause 31(e) of SCC which states as under Within 30 days of award of work, The contractor shall furnish a bank Guarantee from any nationalised/Scheduled bank for an amount of 2.5% (Two & half) of the contract price in the form approved by the Engineer and having validity upto completion period with a claim period of three months as per format attached at Annexure-F and shall be released after taking over of the work by the Employer. Further retention money @ 5% (Five) shall be Deducted from each interim certificate from First RA bill subject to a maximum of 2.5 % (Two & half) of the contract price and shall be released after successful completion of defect liability period. Alternatively/or Retention money at the rate of 10% (ten percent) shall be deducted from each interim certificate subject to the maximum of 5%(Five percent) of the contract price after approval by engineer. (50% of retention money shall be released after taking over of work by the Employer and balance 50% shall be released after successful completion of defect liability period.
49	48	42.2.4 / Vol03SCC	Water supply & power supply	Request you to provide electricity and water at one point on chargeable basis. Further tapping in Contractors Scope.	No change in tender conditions
50	48	42.2.5/ Vol03SCC Page No.48	Site office and Infrastructure	We presume furnished site office to be provided to Client / Consultant. We request to provide required builtup area and no. of occupants to enable us to make consideration.	For office purpose built up area about 160 sqm would be required.
51	48	42.2.6/ Vol03SCC	Temporary Fencing	Request to provide the length of temporary fencing and type of material to be considered.	As per requirement of site.
52			Space for Temporary Infrastructure.	Request to provide the space for the temporary Infrastructure on free of cost within the site premises for the following, 1. Batching Plant 2. Labour Colony 3. Site Office 4. Stores, Workshop, Material yard & Precast yard & other Amenities required for execution.	labour camp is not allowed at site. Space for other construction activity infrastructure will be provided at site as per availability of space. However, contractor have no claim in case of non availability of the space.

53	16	VOL01NITandPO	1.25. The work includes number of specailised Electrical/ Mechanical/Electronic/ Medical Engg services to be executed as integral parts of the project...	As per NIB, all the specialised services are included in this bid, whereas as per Vol 5 BOQ the scope of work are for Civil, PHE, FPS and Internal electrical works only. Hence, request to provide the BOQ for all other listed system like HVAC,Lifts, Transformer, DG, Medical system etc.	The works required to be carried out are mentioned in BOQ. HVAC works are to be carried out have been mentioned BOQ.
54		VOL01NITandPO	SECTION-II INSTRUCTIONS TO BIDDERS (ITB)	Request you to kindly confirm whether both Operation and Maintenance required during defect liability period of 12 months	Please refer pg -50 clause 45.0 of Vol III, SCC, which is amended as: "The contractor shall carry operation & maintenance of the entire system for one (01) year after satisfactory completion of entire work.
		CIVIL			
54		General	Soil Investigation Report	Request you to provide the Soil Investigation Report with Borelog details.	Refer pg-15 of NIT Vol-I Clause 1.17 which states as under: "Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender."
55		General	Area statement	Request to provide building wise total area statement	Detail Drawings have been Provided along with Tender Documents
56		General	Drawing	Please provide Site layout and Structure drawings.	Site Layout already provided alongwith tender Document.
57		General	Excel BOQ	Request to provide the unprotected excel BOQ for working purpose.	
58		Schedule of Quantities (Civil works)	All concrete works	We understand that flyash is allowed to blend with OPC 43 grade during production of concrete.Kindly confirm.	As per BOQ Item
59		Schedule of Quantities (Civil works)	Flooring	Kindly provide the pattern and colour of tiles and stones as the price varies based on colour and pattern.	Work shall be carried out as per respective BOQ items and corresponding CPWD specifications.
60		Schedule of Quantities (Civil works)	Flooring	Kindly provide the flooring and cladding pattern drawings for working purpose.	Work shall be carried out as per respective BOQ items and corresponding CPWD specifications.
61	2	1.08 / Vol04Technicalspec	General	We presume co-ordination and facilitate to sub-agencies directly engaged by Client is not in our scope of work. If the same is required, kindly provide the separate item to price it for co-ordination and facilities.	No change in tender conditions

		PHE			
62	Page No.FF9	Vol 5 BOQ - Plumbing work, item no 1.01		Please provide us the model no for concealed cistern	As per boq/ specification
63		Vol 5 BOQ - Plumbing work, item no 1.02		Please provide us the make & model no	As per boq/ specification
64		Vol 5 BOQ - Plumbing work, item no 1.03		Please provide us the make & model no	As per boq/ specification
65		Vol 5 BOQ - Plumbing work, item no 1.05a,b		We presume that this item is wash basin only. Hence we quote for wash bain only excluding mixer or pillar tap. Mixer or pillar tap for this wash bains will be measured seperately elsewhere, but the same is not appeared anywhere in the BOQ.Please clarify.	As per boq/ specification
66		Vol 5 BOQ - Plumbing work, item no 1.06a		Please provide us the make & model no	As per boq/ specification
67		Vol 5 BOQ - Plumbing work, item no 3		Please provide us the pressure class of the pipe (i.e. SDR 11 or SDR 13.5)	As per boq/ specification
68		Vol 5 BOQ - Plumbing work, item no 8.15		We presume that the set means (1w+1s). Please confirm whether this item requires (4x2=8 No) of pumps or 4 pumps required.	Pumps 2 working 2 stand by
69		Vol 5 BOQ - Plumbing work		We presume that Civil works for ETP are measured and paid elsewhere. Hence, we are not considering civil works for ETP. Please confirm	civil work will be measured in civil item
70	Page No.79	Vol 5 BOQ - Plumbing work		We presume that Civil works for STP are measured and paid elsewhere. Hence, we are not considering civil works for STP. Please confirm	civil work will be measured in civil item
		FPS			
71		S.No.14 of clause- 14 of list of Approved makes -Fire Fighting Works of Page No.78	Fire Pumps	Kindly approve Kirloskar make also.	As per approved vendor list
72		S.No.1.27-a of BOQ of Fire Fighting Works of Page of Page No.FF9 of 23	Sprinkler	Kindly provide us the number of pendant and Upright sprinklers out of total quantity 10850 nos.	Shall be submitted by executing agency with shop drawings for approval
73		S.No.1.40 of BOQ of Fire Fighting Works of Page of Page No.FF13 of 23	Fire Trace System - LT Panel	Kindly provide us the LT Panel Dimension (Length x Width x Height) .	Approx 6ft x 5ft x 1.5ft
74		S.No.1.41 of BOQ of Fire Fighting Works of Page of Page No.FF13 of 23	Fire Trace System - HT Panel	Kindly provide us the HT Panel Dimension (Length x Width x Height) .	Approx 6ft x 5ft x 1.5ft

		ELV			
75		S.No.53 of List of approved makes for Electrical System of Spec-Page E-83 R0	Fire detection system	Kindly include Bosch and Schrack make in the approved list of makes.	Bosch may be included in the make list.
76		S.No.2 of List of approved makes of Spec-Page E-65 R0	CCTV System-IP	In the Approved List of makes of Electrical , Honeywell , Pelco ,Bosch and sony makes is mentioned for CCTV Cameras. Hence can we consider Bosch and sony make also in the approved list?	Bosch & Sony are already in the list of approved makes mentioned at the end of technical specifications-Electrical
77		S.No.1 of List of approved makes of Spec-Page E-65 R0	CCTV System-IP	Kindly include Bosch and Sony make in the approved list of makes.	- do -
78		S.No.5 of List of approved makes of Spec-Page E-65 R0	CCTV System-IP	Kindly include Bosch and Sony make in the approved list of makes.	- do -
79		S.No.6 of List of approved makes of Spec-Page E-65 R0	CCTV System-IP	Kindly include Bosch and Sony make in the approved list of makes.	- do -
80		S.No.65 of List of approved makes for Electrical System of Spec-Page E-84 R0	Access Control System	Kindly include Bosch make in the approved list of makes.	Bosch may be included in the make list.
		ELECTRICAL			
81		Vol04Technicalspecs	TECHNICAL SPECIFICATIONS 1.00 GENERAL SCOPE OF WORK SPEC Page E-1 R0	Our scope of works limited only to the following as per BOQ 1. Rising Mains 2. MV Panels 3. MCB Distribution Boards 4. Wiring 5. Light Fixtures 6. LT cabling 7. Earthing & Lightning Protection Hence we presume that Enhancement/Sanctioning Electrical Load from State Electricity Board are not part of contractor scope of work. Please Confirm	Scope covers internal electrical works as per BOQ.

82	Vol04Technicalspecs	TECHNICAL SPECIFICATIONS 1.00 GENERAL SCOPE OF WORK SPEC Page E-1 R0	Our scope of works limited only to the following as per BOQ 1. Rising Mains 2. MV Panels 3. MCB Distribution Boards 4. Wiring 5. Light Fixtures 6. LT cabling 7. Earthing & Lightning Protection Hence we presume that Obtaining approvals from Chief Electrical Inspectors, Local Electricity Supply Authority, Telecom Department, and any other statutory authorities are not part of contractor scope of work. Please Confirm	Scope covers internal electrical works as per BOQ.
83	Vol04Technicalspecs	TECHNICAL SPECIFICATIONS 3.0 MV & FLOOR PANELS SPEC Page E-6 R0	Minimum clearance between phase to phase will be 25mm and that between phase to neutral/ earth will be 19 mm as per type test arrangements and as per standard offerings of approved panel manufacturers. Request you to kindly confirm whether we can consider the same	Minimum distance as per IS may be accepted for vertical droppers. However for horizontal bus bar in bus chamber it will be as per specifications.
84	Vol04Technicalspecs	TECHNICAL SPECIFICATIONS 5.0 INTERNAL ELECTRIFICATION OF BUILDING SPEC Page E-17 R0	As per CPWD specification, minimum of 20mm dia steel conduit size shall be considered. whereas, specification for metallic conduit calls for steel conduit of minimum size 25mm dia to be considered. Request you to kindly confirm whether we can consider as per CPWD specification	As per CPWD specifications.
85	Vol06tenderdrawingpart14of18	Electrical SLD	Single Line Diagram (SLD) layout is not available in the tender documents. Request you to kindly provide the same.	SLD will be provided to successful bidder.
86	Vol06tenderdrawingpart14of18	ELECTRICAL FLOOR LAYOUTS	Legend is not available in electrical floor layouts Request you to kindly furnish the same	All items have been mentioned in the BOQ.
87	Vol05BOQ	BILL OF QUANTITY	Bill of Quantities available in "pdf" format only. Request you to kindly provide the Bill of quantities in "Excel" format for our working purpose	

88	Vol05BOQ	SUBHEAD 1: RISING MAINS Page BOQ-E 1_R02 SI No 1.01	Request you to kindly furnish the drawings to ascertain quantities of bends, terminations requirments and no. of runs. If drawings are not available, request you to kindly furnish the quantities of bends, tees, terminations and no. of runs to be considered.	Number of bends etc will be as per actual site conditions.
89	Vol05BOQ	SUBHEAD 1: RISING MAINS Page BOQ-E 1_R02 SI No 1.01	Request you to kindly furnish the drawings to ascertain quantities of bends, terminations requirments and no. of runs. If drawings are not available, request you to kindly furnish the quantities of bends, tees, terminations and no. of runs to be considered.	Number of bends etc will be as per actual site conditions.
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96		Vol05BOQ	SUB HEAD 4: WIRING Page BOQ-E 49_R02 SI No 4.01	Request you to kindly confirm the average length to be considered for this line item	As per electrical layout drawings.
97		Vol05BOQ	SUB HEAD 4: WIRING Page BOQ-E 49_R02 SI No 4.02	Request you to kindly confirm the average length to be considered for this line item	As per electrical layout drawings.
98		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 53_R02 SI No 5.01	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	Model number of other approved makes meeting all the technical specifications of metioned model may be accepted.
99		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 53_R02 SI No 5.01	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
100		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 53_R02 SI No 5.01	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
101		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 53_R02 SI No 5.01	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
102		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 53_R02 SI No 5.01	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
103		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
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106		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
107		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
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109		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
110		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
111		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
112		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
113		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
114		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
115		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
116		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -

117		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
118		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
119		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
120		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
121		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
122		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
123		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
124		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
125		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
126		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
127		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -

128		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
129		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 56_R02 SI No 5.03	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
130		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 56_R02 SI No 5.03	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
131		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 56_R02 SI No 5.04	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
132		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 56_R02 SI No 5.05	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
133		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 57_R02 SI No 5.11	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
134		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 57_R02 SI No 5.12	Since Aesthetic look may vary from make to make, request you to kindly furnish the model nos. of all equivalent approved makes to be considered.	- do -
135		Vol05BOQ	SUB HEAD 12: LT CABLES SI No 13.04	This particular line item calls for laying the cables on surface or on existing cable trays. But, quantities for cable trays are not specified else where in BOQ. Request you to kindly confirm the requirement of cable trays in this project.	Cable trays are the part of HVAC BOQ.
136		Vol05BOQ	SUB HEAD 12: LT CABLES SI No 13.05	Copper lugs are specified in BOQ. But, most of the cables and panel busbars are with aluminium conductor. So, we presume that aluminium lugs with brass double compression gland shall be used for end terminations Please confirm	As per BOQ

137		VoI05BOQ	SCOPE OF WORK - BILL OF QUANTITY	<p>Bill of quantity of following electrical works are not available in the tender document</p> <ol style="list-style-type: none"> 1. HT Panel and HT Cabling works 2. Transformers 3. Main LT Panels, APFC Panels and Substation Electrical Works 4. Cable Trays & Raceways 5. DG Sets, Synchronizing Panels and DG associated works 6. UPS and associated works 7. External Electrical Works 8. Lifts works 9. Solar system <p>We presume that above mentioned works are not part of this contract. Please confirm</p>	As per BOQ.
		VoI05BOQ	Bill of quantity for HVAC works	<p>Request you to kindly furnish the drawings to ascertain quantities of bends, terminations requirements and no. of runs. If drawings are not available, request you to kindly furnish the quantities of bends, tees, terminations and no. of runs to be considered.</p>	Shall be as per site requirement.
		HVAC			
138	Page-16	1.25	Specialized agencies	<p>We request you to accept L&T as the Specialized agency for in-house execution. Since, we have executed similar nature of Projects.</p>	The qualification of specialised agency to be engaged shall be as per eligibility given in form 'H' of vol-I. Name of specialised agencies as given stands deleted.
139	SCC-P-71	4	Supply of Equipment	<p>Since this is a competitive bid and List of approved makes has been provided as part of NIT documents, to ensure fair bidding the contractor shall have the liberty to choose from any of the approved makes listed subject to compliance to specifications . Please confirm.</p> <p>And thereby request you to delete the clause</p> <p>"However, final choice of make shall lie with the Engineer."</p>	No change in tender conditions.
140	SCC-P-55	11	Inspection and Testing	<p>Please confirm the list of equipment's to be tested at factory along with the testing procedures.</p>	No change in tender conditions.

141	SCC-P-74	11	Samples and Prototypes	Samples shall be submitted for the HVAC visible items inside the Conditioned Space like Grilles & Diffusers & Valves only. Please Confirm.	No change in tender conditions.
142	SCC-P-76	13.2	Final Performance and Capacity Test	Testing shall be carried out once prior to Commissioning. Please confirm.	No change in tender conditions.
143	SCC-P-66	2	Cooling Tower: (FRP Construction)	Cooling towers shall be CTI Certified or NON CTI Certified. Please Clarify.	CTI certified as per BOQ.
144	B.O.Q.-AC10	3	COOLING TOWER (CTI Certified)		
145	B.O.Q.-AC30	11.2	Ozone Injection System	Please confirm the detailed Specifications & Capacity of Ozone Injection System.	Shall be as per BOQ.
146	B.O.Q.-AC29	10	EXPANSION TANK	Please confirm the Expansion Tank Specifications to be followed as per the BOQ or the Technical Specifications.	Shall be as per BOQ.
147	Specs-AC-Page-71	3.9	EXPANSION TANK		Shall be as per BOQ.
148			BOQ - A. Equipment: 1. Water Chilling Units 1.2 (q) (425 TR Centrifugal Chillers)	The tender specifications calls for COP compliance as per ECBC Code. Since ECBC Code refers to ASHRAE Standard 90.1 for mandatory COP requirements, therefore, we request you to kindly also accept chillers complying to ASHRAE 90.1 Standard.	No change in tender conditions.
149			BOQ - A. Equipment: 1. Water Chilling Units 1.1.(a) & 1.2 (a)	Compressor motor specifications are not clear. As per CPWD HVAC Specifications 5.3.10, the drive motor shall be totally enclosed IP-42 protected fan cooled for open type compressors and refrigerant cooled for semi-hermetic type chiller units. We request you to accept both type of motors with IP- 42 protection.	No change in tender conditions.
150			BOQ - A. Equipment: 1. Water Chilling Units 1.3 (m) (150 TR Air cooled Chiller)	Air Cooled Chillers shall be equipped with Star Delta starter. The starting current shall be within 2 times of the full load current. Kindly accept the same.	Star delta starter with other parameter as per tender
151			BOQ - A. Equipment: 1. Water Chilling Units 1.3 (q) (150 TR Air cooled Chiller)	Kindly confirm the Air Ambient Temperature for designing the air cooled chiller	Ambient design condition 45 deg C.
152	B.O.Q.-AC20	6	(Precision cooling) split air conditioner	Please confirm the length of Refrigerant piping, power cabling & drain piping per unit.	No change in tender conditions.
153	Specs-AC-Page-60	2	Fan Coil Units	Please provide the Fan Coil Unit Construction details.	No change in tender conditions.

154	Specs-AC- Page-65		PAN TYPE HUMIDIFIER	Please confirm the Resin bonded fibreglass insulation thickness.	80 mm.
155			Centrifugal Chillers – Evaporator/ Condenser	It is noted that not all the approved Manufacturers are confirming to the supply of chillers manufactured & stamped in accordance with ASME Code. Request you to amend the clause suitably to be met by all the approved manufacturers.	No change in tender conditions.
156			Centrifugal Chillers (425 TR Centrifugal Chillers)	This condition is generally applicable for large size chillers. As per this condition, each individual chiller of 425 TR capacity is required to unload upto 85 TR (20%) at constant condenser entering water temperature, meaning the plant room shall operate at 4% of the its total installed capacity of 2125 TR (425 TR # 5). This is highly impractical condition as the building shall always have a base air-conditioning load of 15-20%. Therefore, we request you to kindly amend this condition to capacity control 100% - 50% for each individual chiller.	No change in tender conditions.
157	Specs-AC- Page-143 to 147		LIST OF APPROVED MAKES AND MANUFACTURERS		
158			Air Handling Units (High Static) with cooling coils	We additionally propose ETA. Please approve.	No change in tender conditions.
159			Fan Coil Units	We additionally propose Edgetech/ETA. Please approve.	No change in tender conditions.
160			VRV/VRF	We additionally propose Mitsubishi/LG. Please approve.	No change in tender conditions.
161			Factory fabricated duct	We additionally propose Camduct/Radiant Air Systems. Please approve.	No change in tender conditions.
162			Fire Dampers UL listed	We additionally propose Airmaster. Please approve.	No change in tender conditions.
163			Butterfly Valves	We additionally propose Intervalve/Advance/Castle. Please approve.	No change in tender conditions.
164			Non Return Valve	We additionally propose Intervalve/Zoloto/Castle. Please approve.	No change in tender conditions.

165			Pot & Y-Strainer	We additionally propose Procedyne Engineers. Please approve.	No change in tender conditions.
166			Pressure Gauge	We additionally propose Baumer [Waree]. Please approve.	No change in tender conditions.
167			Thermometer	We additionally propose Baumer [Waree]. Please approve.	No change in tender conditions.
168		Vol.- IV (Technical Specifications)	Civil works, Item no. 5.00 List of approved makes for SS Railing, Sr no:52 pg no-11, shall be read as under:		
		As Per Technical Specifications		As Amended	
	Sl.No.	Material	Manufacturers	Material	Manufacturers
	12.00	SS Railing	Ozone,D-Line,Jindal	SS Railing	SS 304 grade (as approved by the Engineer)

Please note that this Amendment no. – II, shall form part of the tender and all others terms & conditions of the tender shall remain unchanged.

Prospective bidders are advised to regularly scan through HSCC e-tender portal <http://www.tenderwizard.com/HSCC> as corrigendum/amendments etc., if any, will be notified on this portal only and separate advertisement will not be made for this.

(-Sd-)

Executive Director, HSCC (I) Ltd.
For & on Behalf of Director, AIIMS, New Delhi

National Cancer Institute, Jhajjar

Annexure-A

Project: Construction of Hospital, OPD, and other associated services and their maintenance during Defect Liability Period for National Cancer Institute at Badsha, Jhajjar, Haryana

Tender no: HSCC/NCI-Jhajjar/Hospital/2015

Vol 02 GCC Section 7, Proforma of Schedules, Schedule 'F' Clause 10 CA at pg No 113 is amended as below:

Clause No	As Per Vol02 GCC			As Amended		
10CA	Material covered under this clause	Base price per MT (in Rs.)	Base price of all the materials covered under Clause 10CA	Material covered under this clause	Base price per MT (in Rs.)	Base price of all the materials covered under Clause 10CA
	*1.Cement	Rs. 5540.00		*1.Cement	Rs. 5540.00	
	*2.Reinforcement steel	Rs. 48721.00		*2.Reinforcement steel	Rs. 48721.00	
	*3 Structural Steel	Rs. 45087.00		*3 Structural Steel	Rs. 45087.00	
	* includes Cement component used in RMC brought at site from outside approved RMC plants, if any. Clause 10CA is applicable only for Cement and Steel reinforcement bars and not for any other materials.			* includes Cement component used in RMC brought at site from outside approved RMC plants, if any. Clause 10CA is applicable only for Cement and Steel reinforcement bars & Structural steel and not for any other materials.		