

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

Dated: 19.11.2014

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/2014; Dated: 16.10.2014

Reply to Pre Bid Queries raised by bidders during pre -bid meeting held on 29.10.2014 at HSCC, Head Office, Noida

Sl. No.	Page No	Reference	Title / Cl. No.	Description as per Tender Document	Queries	Reply
1		General	General	NIL	Site Plan is not found part of the drawings provided through Volume 6. Kindly provide the same for Clarity on locating the buildings and to understand the site planning aspects with respect to setbacks and plinth areas.	Site plan attached at ANNEXURE-I
2		General	NIL	NIL	Landscape Plan is not found part of the drawings provided through Volume 6. Kindly provide the same for clarity on external layouts.	The work is to be caaried out as per respective BOQ item, Technical specifications.
3		General	NIL	NIL	Scope of works on external areas with respect to surface parking, security cabins if any, roads, compound walls to be briefed for clarity.	The work is to be caaried out as per respective BOQ item, Technical specifications
4		General	NIL	NIL	Site Survey plan indicating the natural ground levels to be provided for clarity on formed ground levels and finished floor levels	Bidders are advised to visit & examine site and its surroundings and obtain information as necessary for preparing the bid at their own cost. Floor levels will be as per drawings & requirements.
6		General	NIL	NIL	Please provide the high flood level for the site to fix the formed ground level and the finished floor level of the buildings.	Bidders are advised to visit & examine site and its surroundings and obtain information as necessary for preparing the bid at their own cost. Floor levels will be as per drawings & requirements.

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7		General	NIL	NIL	Please confirm whether any future expansions to be considered for any of the building blocks	Work as per scope of work is to be carried out.
8		Vol05BOQ	Bill of Quantities	Item no.8.05 - Under deck insulation, Item no.8.12 - Heat Resistant Tiles	Underdeck insulation quantities are provided. We also see Heat resistant tiles quantities in the BOQ which is a part of over deck insulation. Please confirm the type of terrace insulation to be considered	As per tender conditions
9		Volume-05	Bill of Quantities	NIL	We understand from the BOQ's provided through Vol-5, that HVAC works and Lifts are not in scope of works. Kindly confirm whether the detailed drawings for HVAC and lifts will be provided to us during detailed engineering stage for coordination.	Relevant drawings required for construction will be made available to the contractor as per terms of Tender.
9		General	NIL	NIL	We assume that all medical equipment data / requirements will be provided as part of RFC during detailed engineering stage for MEP services coordination. Also we understand from the BOQ provided that all medical equipment supply is not part of scope of works for the contractor.	Medical equipment supply is not part of scope of this tender.
10		General	NIL	NIL	Please confirm whether the Detailed architectural drawings provided to the contractor after the award of the contract will include, reflected false ceiling drawings, furniture and fitout drawings indicating the layouts for various specialized areas to preparing detailed design and drawings for execution.	Drawings will be provided as per terms of Tender conditions. Contractor will also require to prepare the shop drawings and other coordinated details.
11		Plan	Tender Drawing - Fourth Floor Plan - OPD Block	NIL	Please confirm the function of the corner four rooms in fourth floor which are circular in shape to plan for services	Not required for quoting of rates.
12		Vol-6	NIL	NIL	We assume that the OPD Block is G+4 only. Please provide elevation and section drawings for clarity.	Refer Architectural Drawings.
13		Plan	Tender Drawing - Second Floor - OPD Block	NIL	Please confirm whether "Future surgical day care" in second floor to be completely finished including provision of MEP services or left with warm shell finishes.	The extent of finishes have been reflected in BOQ.
14		Plan	Tender Drawing - P.C.Teaching Block - Ground Floor to Fifth Floor	NIL	In basic science research center, please confirm the Lecture hall capacity to be considered in each of the floors.	Work to be executed as per relevant BOQ item, Technical specification & drawings.

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15		Plan	Tender Drawing - P.C.Teaching Block - Ground Floor to Fifth Floor	NIL	Lift lobby width shown between grids E-F and 4-5, C-D and 7-8 is lesser than the requirements of NBC 2005. The width of the lobby should be 3.6m. Please confirm the same.	Work is to be executed as per released for Construction drawings.
16		Plan	Tender Drawing - P.C.Teaching Block - Ground Floor, First Floor	NIL	Please provide elevation & section drawings for the PC teaching block to understand the auditorium details like racking.	Attached at Annexure-II.
17		Plan	Tender Drawing - P.C.Teaching Block - Ground Floor, First Floor	NIL	Please confirm whether the Stage for the auditorium is in built or to be done as an interior outfit.	Stage of auditorium to be built.
18		Plan	Tender Drawing - P.C.Teaching Block - Ground Floor, First Floor	NIL	Please confirm the nature of Circular structure indicated between grids 5-9 and D-H. Please provide section / elevation drawings.	Open air Theatre
19		Plan	Tender Drawing - P.C.Teaching Block - Terrace Floor	NIL	Please confirm the landing requirement shown in the terrace floor for all the lifts	No Requirement
20		Plan	Tender Drawing - Hospital Block - Basement 2, Basement 1	NIL	We assume that HVAC ventilation related service rooms will be furnished for coordination to the contractor for coordination during detailed engineering stage	Contractor has to Coordinate with HVAC contractor & other agencies working at site.
21		Plan	Tender Drawing - Hospital Block - Basement 1	NIL	We assume that the 3 nos. of future medical accelerators are not in scope of works shown in future expansion area of basement 1. Kindly confirm.	3 linacs are shown in basement as future, adjacent to currently proposed.
22		Plan	Tender Drawing - Hospital Block - Fourth Floor Plan	NIL	We assume that the number of beds between grids 10-15 adjacent to the OT complex will be provided along with the toilet requirements to the contractor during the detailed engineering stage.	Beds inside OT complex are Pre & Post O.P. beds (no toilet required). Rest all beds on the floor already have toilet facilities.
23		Vol-6	NIL	NIL	Please provide elevations and sections for the Hospital block	Attached at Annexure-III.
24		Plan	Tender Drawing - Admin Block - Ground Floor Plan to Fifth Floor	NIL	Please confirm whether detail MEP requirements along with equipment layouts and data for the tissue banks and labs related to MEP services be provided to take up detailed engineering works after award of the contract	Essential data as required will be made available.

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25		Plans	Clinical Research, Tender Drawing - Microbiol & Bioch- Ground Floor Plan	NIL	We assume that the clinical research building is G+5 as per the drawings provided to us. But the hospital block plan indicates connection to the clinical research building all levels including 6, 7 & 8th floors. Please confirm.	Clinical Research building is G+5 structure only.
26		Plans	Clinical Research, Tender Drawing - Microbiol & Bioch- Ground Floor Plan	NIL	We assume that the 2 nos. of lifts adjacent to Peripheral unit of Integrated Electronic lab, indicated in the ground floor plan is continuous (missing in first & second floor).	Lift is continuous till terrance.
27		Plans	Clinical Research, Tender Drawing - Microbiol & Bioch- Ground Floor Plan to Fifth Floor	NIL	Please confirm the whether the floor cuts indicated with dimensions 2800x2470 (4 nos.) adjacent to the staircase and women toilet is Lift or Service shafts.	Service shaft
28		Vol-6	Clinical Research, Tender Drawing - Microbiol & Bioch- Ground Floor Plan	NIL	Please provide elevations and sections for the Clinical Research Block	Attached with annexure-III
29		Plans	Tender drawing - Service Block - Basement, Ground & First Floor Plan - Electrical Layout	NIL	Please provide sections and elevations for the service building to understand the floor to floor heights	Attached with annexure-IV
30		Plans	Tender drawing - Service Block - Basement, Ground & First Floor Plan - Electrical Layout	NIL	Please confirm location of Transformer Yards, DG set, Metering room in service building.	Area has been designated for such equipment. Contractor executing this work will prepare layout of equipment and submit for approval which will require to be coordinated.
31		Plans	Tender drawing - Service Block - Basement, Ground & First Floor Plan - Electrical Layout	NIL	We assume that the detailed layout drawings for CSSD, Laundry, Kitchen layout be provided to the contractor after the award of the contract for detailed workings of structure and MEP	Area has been designated for such equipment. Contractor executing this work will prepare layout of equipment and submit for approval which will require to be coordinated.
32		Plans	Tender drawing - Service Block - Basement, Ground & First Floor Plan - Electrical Layout	NIL	Please confirm the location of sumps and pump rooms inside the service building for MEP coordination and detailing	Sump pump will be provided in the sump and pumps will be provided in the pump room.

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33		Electrical specification Volume 4 Page no -E1	1.00 GENERAL SCOPE OF WORK	The scope of work shall cover internal and external electrical works for Construction of hospital OPD & and other associated services and there maintenance during defect liability period liability period for national cancer institute at Badsha,Jhajjar,Haryana	The following items are not covered in the scope of work . 1. HT related electrical works 2. Transformers and Busducts 3. DG sets & Auto synchronising panels 4. Main LT panel & APFC panels 5. UPS,INVERTERS & battery system 6. External lighting We assume that above mentioned items shall be under client scope. Kindly clarify.	It is for Internal Electrical works only as per BOQ
		Volume -5 BOQ page no: BOQ-E 1_R02	General -Substation equipments	-	Substation related equipments as mentioned above are not captured in the BOQ.	It is for Internal Electrical works only as per BOQ
34		Electrical specification Volume 4 Page no -E1	1.00 GENERAL SCOPE OF WORK	The scope of work shall cover internal and external electrical works for Construction of hospital OPD & and other associated services and there maintenance during defect liability period liability period for national cancer institute at Badsha,Jhajjar,Haryana	From the scope of work ,it is understood that design is not in the scope.Hence the design and submission of design documents not considered in the scope .Please confirm.	Design is an integral part of the Contract.
35		Electrical specification Volume 4 Page no -E1	1.00 GENERAL SCOPE OF WORK Point no.iii	Internal electrification through concealed MS conduits and provide light points,fan points, socket outlets etc.	Kindly confirm the feasibility of proposing concealed MS conduits at non false ceiling areas and surface wiring with MS conduits at false ceiling areas.	As per BOQ
36		Electrical specification.5.4.6 Page no -E18	RECESS CONDUIT	In case of PVC conduit it will be ISI marked HMS duty type, the PVC conduits and accessories will as per IS:9537 PART-3-1983,and IS -3419-1988 amended up to date.	Kindly confirm the usage of ISI marked HMS duty type PVC conduits and accessories (as per IS:9537 PART-3-1983,and IS -3419-1988 amended up to date.)for concealed wiring.	As per BOQ
37		Electrical specification Volume 4 Page no -E1 & Electrical specification.5.4.6 Page no -E18			Since the points in the serial no 3 and 4 pertain to conduits system is contradicting kindly confirm the conduiting system.	As per BOQ

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38		Electrical specification.5.4.4,5.4.5 Page no -E18	PROTECTION OF CONDUIT AGAINST RUST ,PAINTING OF CONDUIT AND ACCESSORIES	The outer surface of the conduits including all bends ,unions,tees,junction boxes etc.forming parts of conduit system shall be adequately protected against rust when such system is being exposed to weather by being painted with two coats of oxide paint applied before they are fixed.	Kindly confirm the usage of GI conduits instead of providing two coats of oxide paint at the surface of metallic conduits.	As per BOQ
39		Electrical specification Volume 4 Page no -E1	GENERAL SCOPE OF WORK Point no.xii	12) Enhancement/Sanctioning electrical load from State electricity Board.	Provide the tentative contract demand and voltage level of HT voltage class available in the campus	This is for internal works only as per BOQ
40		Electrical specification Volume 4 Page no -E1	GENERAL SCOPE OF WORK Point no.xiv	14) Obtaining approvals from Chief electrical inspectorate ,Local electricity supply authority,Telecom department ,and any other statutory authorities for the complete scope.	Since the substation related works are not mentioned in the scope we assume that liasoning part shall be excluded. Kindly confirm.	This is for internal works only as per BOQ
41		Volume -5 BOQ page no: BOQ-E 1_R02	1.00 Rising mains	Supply, installation, testing and commissioning of plug in type , indoor sandwich type with high conductivity Aluminium Conductor , 415 V,3 phase, 4 wire, vertical Aluminium Rising main Class B or better	Fault level of rising mains are not indicated in the BOQ. Kindly confirm.	50 KA
42		Electrical specification 3- MV & FLOOR PANELS.Page no -E 7	3.4 -BUS BARS	The busbars shall be suitably braced with non hygroscopic supports to provide a through fault with stand capacity of 25Ka RMS symmetrical for one second.	Kindly confirm the capacity of transformers for analysing the fault current rating of panel.As per specification 25ka recommended is seems to be inadequate for all panels.Please confirm.	As per BOQ
43		Volume -5 BOQ page no: BOQ-E 3_R02	2.00 SUB HEAD 2 :MV PANELS A. HOSPITAL BLOCK	Incomer: 125 Amps,415 volts, 35 KA FP MCCB Outgoing:6 no.63 Amps,415 volts,9KA,4P MCB and 6 no.40 Amps,415 volts,9KA,4P MCB	kindly note for distribution panels, the fault level of Incomer, busbar and outgoing breakers shall be of same fault current rating. Hence the MCB's considered in the Hospital block panel needs to be replaced with MCCB of 35KA/sec fault capacity.Kindly confirm.	As per BOQ
44		Electrical specification 3- MV & FLOOR PANELS.Page no -E 7 and Volume -5 BOQ page no: BOQ-E 3_R02			The fault current rating of busbars in the technical specification not matching with BOQ specification.Kindly confirm.	As per BOQ

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45		Volume -5 BOQ page no: BOQ-E 70_R02	SI no: 13 SUB HEAD LT CABLES	General	Control cables are not captured in the BOQ	As per BOQ
46		Volume -5 BOQ page no: FF- 20 of 23	SI no: 151 FIRE - FIGHTING PUMP PANEL	General	FPS related power and control cables, trays, Earth strips are not captured in the BOQ	As per BOQ
47		Volume -5 BOQ page no: PHE 75	SI no: 14 WATER SUPPLY PUMP PANEL in pump room	General	PHE related power , control cables ,trays and eath strips are not captured in the BOQ	As per BOQ
48		Volume -5 BOQ	General - HVAC related electrical items	General	We assume that HVAC related Electrical items like Distribution panels, LCP's, power and control cables,trays, Earth strips are not included in our scope of works. Kindly confirm	As per BOQ
49		Availability of master single line diagram.		General	For getting a better understanding on electrical distribution MSLD required .Kindly confirm the availability of electrical master single line diagram .	Will be provided to sucessful bidder.
50		Staircase wiring		General	For staircase wiring MCB control required or two way swich control .Kindly confirm.	As per BOQ
51		Medical equipments - UPS		General	UPS system for Medical equipments not found in the BOQ.Kindly confirm.	As per BOQ
52		Electrical specification.8 Page no -E34	CABLE TRAY 8.1 Ladder type cable tray.	Ladder type cable tray shall be fabricated out of double bended channel section longitudinal members with single bended chanel sections rungs of members weleded to the base of the longitudinal members at a center to center spacing of 250mm.The channel section shall be supplied in convenient lengths and assembled at site to the desired lengths.These may be galvanised or painted to the desired lengths.	Kindly confirm the type of cable tray among the following.1) GI Cable tray 2)Powder coated cable trays 3)Enamel painted cable trays.	As per BOQ
53		Cable trays		General	Cable tray quantities not captured in the BOQ.	As per BOQ
54		Tender electrical drawings			Number of light fixtures and ceiling fans shall be provided as per the tender drawings .Kindly confirm.	As per actual requirements
55		SPEC page E-42 R0, 12.00	Telephone System	The point shall commence from the main telephone tag block/ sub tag block and would terminate at the outlet box of point.	We assume from the tender document provided that the scope of work is limited to point cabling from the tag blocks at field side and the interbuilding tag block connectivity. Supply, installation of MDF, EPABX, and Service provider Connectivity (including cable and containment) is not in scope of work. Please confirm.	As per BOQ

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56		BOQ-E 68_R02, 11.04	Access controlled System - Proximity reader		We understand from the BOQ provided that there are 3 nos of proximity card readers. Can we assume that there are only three access controlled doors for the entire project. Please confirm.	Quantity may vary as per actual site requirement.
57		SPEC Page E-73 R0, BOQ-E 68_R0	Access controlled System	the manufacturer of the system shall provide in the software the following unique application : Guard tour.	We assume that the locations for the 3 nos. of proximity card readers. As per BOQ there are only 3 nos of proximity card readers. Are these locations to be used as guard tour points? Please confirm	OT & ICU area has been considered, however quantity may vary as per actual site requirements.
58		BOQ-E 68_R02, 11.06	Access controlled System	SITC of Single leaf Electromagnetic lock	As per BOQ there is a single EM lock without corresponding reader/egress switch. Please confirm the scope of the additional reader/egress switch required to complete the operational requirement.	Quantity may vary as per actual site requirement.
59		SPEC Page E-77 R0	Access controlled System	Biometric reader with Enrollment Kit & Enrollment Software (to be used for Entry purpose)	Biometric reader is mentioned in the specification for entry purpose whereas it is not there in the BOQ. Is this excluded from scope?	As per BOQ
60			General		The following Systems are generally considered in hospital but have not been mentioned in the specification and is excluded from the current scope of work: 1. Hospital management System 2. Picture Archiving and Communications System 3. Queing management System 4. Networking LAN and Wifi System (including servers) 5. Miscellaneous items(printers, telephone sets, television sets, computers) 6. Visitor Management System 7. Building Management System 8. Splitter boxes, antennas and tap off boxes for CCTV	As per BOQ
61		Vol-05	BOQ	BOQ	We understand from BOQ provided that Sluice valve of diameter 250mm, 200mm,80mm, 65mm are need for isolating pump in pump room are missing. Kindly confirm.	In case of any other requirement, shall be dealt as per tender conditions.
62		General	NIL	NIL	We assume that the scheme drawings for the entire FPS and FAS would be made available to the contractor during detailed engineering along with the preliminary fire NOC drawings. Kindly confirm.	Scheme Drawing shall be submitted by executing agency in terms of contract condition.

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63				Drawings	In case of false ceiling voids which are greater than 800mm double layer of sprinkler and detection are to be provided as per NBC 2005 Part-IV/IS15105:2002& IS 2189:2008. Also the line item in the BOQ for sprinklers mentions upright/pendant.The Provided fire protection scheme drawings indicate only single layer of sprinklers. Please confirm whether the quantities mentioned in the BOQ is inclusive of double layer sprinkler/detection.	System as per requirement of Fire Services will require to be executed. Items variation in quantity, if any shall be dealt as per tender condition..
64		Technical Spec page E 27	Addressable Fire detection and Alarm system		As per the technical Specification each Loop shall have the capacity of 128 detector/devices whilst the BOQ description states minimum of 200 detectors/devices. Kindly Confirm the loop capacity	As per BOQ
65		Volume -IV, Page 25	Hydropneumatic system	Hydropneumatic system for domestic water & flushing system	We understand from the BOQ provided that no hydropneumatic system is considered. As per Volume IV page 23, OHT filling Monobloc pumps for all water supply systems and Gravity supply are to be provided. Please confirm.	As per BOQ
66		Volume I, 1.25, Page 16	Specialised services	STP/WTP	Please provide the location of STP in the master plan for coordination during detailed engineering stages.	Location duly marked in site plan
67		Volume V, 4.00 , PHE30,	Scope of work	Brick masonry Open surface drain with perforated cover slab- 25cm x 30cm & 45cm x 60cm	We assume that the quantities provided for this are for the storm water drainage pipes, drains and chambers. Please confirm.	Size of mainholes given. Contractor would require to prepare detailed shop drawing.
68			Scheme drawings		We assume that all relevant PHE related scheme drawings would be provided during the detailed engineering stage of the project for coordination with other services. Kindly confirm.	
69		Vol-6	Future Expansion	NIL	We understand from the BOQ & drawings that there is no scope for future expansion in any of the building blocks. Kindly confirm the same.	BOQ and drawings are self explanatory.
70		Vol-6	Shoring System	NIL	We understand from the BOQ provided that there is no scope for soil shoring system .Kindly confirm the excavation scheme for basement structures.	As per CPWD Specifications.
71		Vol-6	Expansion Joint	NIL	We understand from the BOQ provided that Expansion joint for Floor to Floor, Floor to wall , Column to column quantity is not considered in scope of work .Kindly confirm expansion joint system.	Expansion joint, if any shall be dealt in terms of tender conditions.
72		Vol-6	Linac & Cyclotron	NIL	We understand from BOQ provided that there is no special concreting for LINAC and Cyclotron wall where the mass concreting is used. Kindly confirm the use of insulated formwork,thermo couplers,crushed ice cube concrete etc. for mass concreting to prevent thermal cracks .	Linac and Cyclotron wall shall be as per AERB guidelines.

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73	112	Schedule F / Vol02GCC	Table for Mile stone	Amount shall be withheld in case on non achievement of milestone	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.	Tender condition shall prevail.
74		Clause 2	Compensation for Delay	At 1.5% per month of delay and max. not exceeding 10% of Tender Value	We request to amend the clause as 1% per month of delay and max. not exceeding 5% of the Tender Value	Tender condition shall prevail
75			Makes of Material	Civil Work Approved makes	Kindly confirm whether we can propose alternative makes other than makes mentioned in the Approved list.	No.
76	113	Clause 10B / Schedule F	Mobilisation Advance	No	We request to provide the applicability of mobilisation advance clause in Schedule F to "Yes".	Not admissible. Mobilization advance is not payable.
77	35	Clause 10B	Mobilisation Advance	Mobilisation advance shall carry simple interest at the rate of 10% per annum.	We request to issue interst free mobilisation advance.	Not admissible. Mobilization advance is not payable.
78	113	Clause 10CA	Price variation	Cluase 10CA is applicable only for Cement and Steel reinforcement bars and not for any other materials	We presume that 10CA is applicable for Cement, Reinforcement steel and Structural steel. Kindly confirm it.	Yes
79	114	Clause 10CC	Price variation	Materials Xm = 40% + Labour Y = 25% + POL Z = 0%	We request to modify the % of component as follows since, Cement and steel covers 15% to 20% of component for price variation. Materials Xm = 50% + Labour Y = 25% + POL Z = 5%	Tender condition shall prevail.
80	5	iv / Vol03SCC	Approval required	The contractor shall obtain all necessary approvals from Muncipl and Local bodies including Muncipl bodies, forest, Electric supply and inspecerate, Fire dept., Civil Aviation department, AERB, etc concerned...	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.	As per tender documents.
81	35	31.e / Vol03SCC	Retention	The contractor shall furnish a BG for an amount of 2.5%. Further 5% shall be deducted in each RAB subject to maximum of 2.5% of the contract price.	We presume that there is no cash retenion as per GCC. Hence, 2.5% of BG only to be provided within 30 days from LOI. Kindly confirm it.	Please refer specific Conditions of contract for retention money.
82	48	42.2.4 / Vol03SCC	Water supply & power supply	The contractor shall make his own arrangement for water supply and power supply at site for construction, testing and commissioning	Request you to provide electricity and water at one point on chargeable basis. Further tapping in Contractors Scope.	As per tender documents.
83	48	42.2.5/ Vol03SCC	Site office and Infrastructure	A reasonably furnished site office accommodation having a sample room A.C. meeting room, A.C. staff rooms with file storage facility...	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.	Not less than 100 Sq.m.

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84	48	42.2.6/ Vol03SCC	Temporary Fencing	The Contractor shall at his own expense, erect and maintain in good condition temporary fences all around the working premises...	Request to provide the length of temporary fencing and type of material to be considered.	Standard fencing of height upto 9feet will require to be provided
85			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.	For tempoary infrastructure space shall be provided after due consent of AIIMS.
86	16	VOL01NITandPQ	1.25. The work includes number of specailised Electrical/ Mechanical/Electronic/ Medical Engg services to be executed as integral parts of the project...	Some of the specialised services are:- HVAC, Lifts, CCTV and security system, solar panel, Modular Ots, Medical gases, Boiler, Mortuary, Central Hot water supply, EPABX, IT, TV cabling, STP/WTP, water supply and Horticulture	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.	other listed system like HVAC, Lifts, transformer etc. are in separate contract.
87		General	Bid Submission	On line bid submission 18.11.2014 upto 14:30 hrs.	Considering the volume of work and lot of specialised items in the job, we request to extend the online bid submission time till 02/12/14 upto 14.30 PM, in order to submit the competative offer.	Already Extended vide Amendment No.-I
88		VOL01NITandPQ	SECTION-II INSTRUCTIONS TO BIDDERS (ITB)	The scope of work shall also includes Electrical works, plumbing, sanitary, sewerage, storm water drainage & fire fighting works etc. and their operation & maintenance during defect liability period	Request you to kindly confirm whether both Operation and Maintenance required during defect liability period of 12 months	Yes.
89		General	Soil Investigation Report		Request you to provide the Soil Investigation Report with Borelog details.	Bidders advised to visit site to acquaint himself with the site conditions, soil conditions, water quality & conditions and surroundings and collect all information that will be necessary for preparing the bid and entering into contract.
90		General	Area statement		Request to provide building wise total area statement	Tender Drawings have already been provided.
91		General	Excel BOQ		Request to provide the unprotected excel BOQ for working purpose.	BOQ already provided as Tender Document.
92		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.	Only 43 grade OPC
93		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 will be carried out as per relevant BOQ item and CPWD specifications.

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94		Schedule of Quantities (Civil works)	Flooring		Kindly provide the flooring and cladding pattern drawings for working purpose.	Work will be carried out as per relevant BOQ item and CPWD specifications.
95	2	1.08 / Vol04Technicalspec	General	In respect of the work of the sub-agencies deployed for doing work of electrification, air-conditioning, external services...the contractor shall afford necessary coordination and facilities for the same.	We presume co-ordination and facilities 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.	Coordination as required for successful completion of work would require to be done as part of tender.
96	Page No.FF9	Vol 5 BOQ - Plumbing work, item no 1.01		Providing & fixing wall hung water closet	Please provide us the model no for concealed cistern	As per boq/ specefication
97		Vol 5 BOQ - Plumbing work, item no 1.02		Providing & fixing pedestal type water closet	Please provide us the make & model no	As per boq/ specefication
98		Vol 5 BOQ - Plumbing work, item no 1.03		Providing & fixing extended water closet	Please provide us the make & model no	As per boq/ specefication
99		Vol 5 BOQ - Plumbing work, item no 1.05a,b		Providing & fixing wash basin	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/ specefication
100		Vol 5 BOQ - Plumbing work, item no 1.06a		Providing & fixing wash basin	Please provide us the make & model no	As per boq/ specefication
101		Vol 5 BOQ - Plumbing work, item no 3		Water supply	Please provide us the pressure class of the pipe (i.e. SDR 11 or SDR 13.5)	As per boq/ specefication
102		Vol 5 BOQ - Plumbing work, item no 8.15		Submersible pumps	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
103		Vol 5 BOQ - Plumbing work		ETP	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 measered in civil Item
104	Page No.79	Vol 5 BOQ - Plumbing work		STP	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 measered in civil Item
105		S.No.14 of clause- 14 of list of Approved makes -Fire Fighting Works of Page No.78	Fire Pumps	Horizontal centrifugal/Fire pumps Mather& Platt(WILO),GRUNDFOS,	Kindly approve Kirloskar make also.	As per approved vender list

Sl. No.	Page No	Reference	Title / Cl. No.	Description as per Tender Document	Queries	Reply
106		S.No.1.27-a of BOQ of Fire Fighting Works of Page of Page No.FF9 of 23	Sprinkler	Pendent / Upright type, 68 C, Chrome plated with CP cover-10850 Nos.	Kindly provide us the number of pendant and Upright sprinklers out of total quantity 10850 nos.	Shall be submitted by executing agency with shope drawings for approval
107		S.No.1.40 of BOQ of Fire Fighting Works of Page of Page No.FF13 of 23	Fire Trace System - LT Panel	Providing and fixing complete CO2 flooding system of approved make and model for main LT panel including two nos. 22 kg seamless cylinder required quantity of MS seamless pipe, manifold, NRV, high pressure flexible hose, weighing arrangement, pneumatic valve, CO2 nozzles including painting and MS support.The size of main LT panel will be as per Electrical scope of work. The shop drawing/datasheet of CO2 flooding system shall be provided by Agency for approval of HSCC before start of the work. The CO2 flooding panel shall also meet out the local Fire Officers latest requirement and anything extra or any modification required by Fire Officer shall be carried out by Agency without any extra cost.	Kindly provide us the LT Panel Dimension (Length x Width x Height) .	Approximatly 6 ft X 5 ft X 1.5 ft
108		S.No.1.41 of BOQ of Fire Fighting Works of Page of Page No.FF13 of 23	Fire Trace System - HT Panel	Providing and fixing complete CO2 flooding system of approved make and model for main HT panel including two nos. 45 kg seamless cylinder required quantity of MS seamless pipe, manifold, NRV, high pressure flexible hose, weighing arrangement, pneumatic valve, CO2 nozzles including painting and MS support.The size of main HT panel will be as per Electrical scope of work. The shop drawing/datasheet of CO2 flooding system shall be provided by Agency for approval of HSCC before start of the work. The CO2 flooding panel shall also meet out the local Fire Officers latest requirement and anything extra or any modification required by Fire Officer shall be carried out by Agency without any extra cost.	Kindly provide us the HT Panel Dimension (Length x Width x Height) .	Approxiomety 5 ft X 5 ft X 1.5ft

Sl. No.	Page No	Reference	Title / Cl. No.	Description as per Tender Document	Queries	Reply
109		S.No.53 of List of approved makes for Electrical System of Spec-Page E-83 R0	Fire detection system	Fire Detection System - Honeywell-Notifier / Edward / Cooper fire alarm system	Kindly include Bosch and Schrack make in the approved list of makes.	As per list of approved makes
110		S.No.2 of List of approved makes of Spec-Page E-65 R0	CCTV System-IP	CCTV Cameras - American Dynamics / GE / Honeywell / Pelco	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?	As per list of approved makes
111		S.No.1 of List of approved makes of Spec-Page E-65 R0	CCTV System-IP	Video Management Server (VMS), Network Video Recorder (NVR) & Accessories - American Dynamics / GE / Honeywell / Pelco	Kindly include Bosch and Sony make in the approved list of makes.	As per list of approved makes
112		S.No.5 of List of approved makes of Spec-Page E-65 R0	CCTV System-IP	Lenses - American Dynamics / GE / Honeywell / Vicon	Kindly include Bosch and Sony make in the approved list of makes.	As per list of approved makes
113		S.No.6 of List of approved makes of Spec-Page E-65 R0	CCTV System-IP	Weatherproof Housing - American Dynamics / GE / Honeywell / Vicon	Kindly include Bosch and Sony make in the approved list of makes.	As per list of approved makes
114		S.No.65 of List of approved makes for Electrical System of Spec-Page E-84 R0	Access Control System	Access Control System - Honeywell-Pro 3000/Schneider/ Lenel / Cardex	Kindly include Bosch make in the approved list of makes.	As per list of approved makes
115		Vol04Technicalspecs	TECHNICAL SPECIFICATIONS 1.00 GENERAL SCOPE OF WORK SPEC Page E-1 R0	xiii) Enhancement/Sanctioning Electrical Load from State Electricity Board.	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 which forms only a portion of a complete electrical requirement for this project and Also design is not part of contractor scope of work. Hence we presume that Enhancement/Sanctioning Electrical Load from State Electricity Board are not part of contractor scope of work	1. Design is an integral part of the Contract. 2.This is for internal electrical works only as per BOQ.

Sl. No.	Page No	Reference	Title / Cl. No.	Description as per Tender Document	Queries	Reply
116		Vol04Technicalspecs	TECHNICAL SPECIFICATIONS 1.00 GENERAL SCOPE OF WORK SPEC Page E-1 R0	xiv) Obtaining approvals from Chief Electrical Inspectors, Local Electricity Supply Authority, Telecom Department, and any other statutory authorities for the complete scope.	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 which forms only a portion of a complete electrical requirement for this project and Also design is not part of contractor scope of work. 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	1. Design is an integral part of the Contract. 2.This is for internal electrical works only as per BOQ.
117		Vol04Technicalspecs	TECHNICAL SPECIFICATIONS 3.0 MV & FLOOR PANELS SPEC Page E-6 R0	Apparatus forming part of the Main/Sub Panels shall have the following minimum clearances. i. Between phases - 32 mm ii. Between phases and neutral - 26 mm iii. Between phases and earth - 26 mm iv. Between neutral and earth - 26 mm	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	As per latest IS specifications.
118		Vol04Technicalspecs	TECHNICAL SPECIFICATIONS 5.0 INTERNAL ELECTRIFICATION OF BUILDING SPEC Page E-17 R0	Electrical work in general shall be carried out as per following CPWD Specifications with up to date amendment. - Specifications for Electrical Works Part-I (Internal) by CPWD – 2013 or latest revision 5.4 METALLIC CONDUIT WIRING SYSTEM. No steel conduit less than 25 mm in diameter shall be used.	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
119		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.
120		Vol06tenderdrawingpart14of18	ELECTRICAL FLOOR LAYOUTS		Legend is not available in electrical floor layouts Request you to kindly furnish the same	Items have been mentioned in the BOQ

Sl. No.	Page No	Reference	Title / Cl. No.	Description as per Tender Document	Queries	Reply
121		Vol05BOQ	SUBHEAD 1: RISING MAINS Page BOQ-E 1_R02 SI No 1.01	Supply, installation, testing and commissioning of plug in type , indoor sandwich type with high conductivity Aluminium Conductor , 415 V,3 phase, 4 wire, vertical Aluminium Rising main Class B or better in following sizes including bends, flexible, provision of the tap off's as per requirement , Adaptor boxes for cable connection if required are inclusive , 2 nos of aluminium earthing strips 50 X 6mm through out the length of the rising mains, end cover, including all types of support and necessary hardware for installation of the rising main etc. complete as per specifications and as required. (Exact lengths to be measured at site). i 630 A , 415 volts	Request you to kindly specify the number of bends flexible joints to be considered for this line item.	No of bend, flexible joints etc will be as per actual site condition.
122		Vol05BOQ	SUBHEAD 1: RISING MAINS Page BOQ-E 1_R02 SI No 1.01	Supply, installation, testing and commissioning of plug in type , indoor sandwich type with high conductivity Aluminium Conductor , 415 V,3 phase, 4 wire, vertical Aluminium Rising main Class B or better in following sizes including bends, flexible, provision of the tap off's as per requirement , Adaptor boxes for cable connection if required are inclusive , 2 nos of aluminium earthing strips 50 X 6mm through out the length of the rising mains, end cover, including all types of support and necessary hardware for installation of the rising main etc. complete as per specifications and as required. (Exact lengths to be measured at site). i 630 A , 415 volts	Request you to kindly specify the number of bends flexible joints to be considered for this line item.	No of bend, flexible joints etc will be as per actual site condition.

Sl. No.	Page No	Reference	Title / Cl. No.	Description as per Tender Document	Queries	Reply
123		Vol05BOQ	SUBHEAD 1: RISING MAINS Page BOQ-E 1_R02 SI No 1.01	Supply, installation, testing and commissioning of plug in type , indoor sandwich type with high conductivity Aluminium Conductor , 415 V,3 phase, 4 wire, vertical Aluminium Rising main Class B or better in following sizes including bends, flexible, provision of the tap off's as per requirement , Adaptor boxes for cable connection if required are inclusive , 2 nos of aluminium earthing strips 50 X 6mm through out the length of the rising mains, end cover, including all types of support and necessary hardware for installation of the rising main etc. complete as per specifications and as required. (Exact lengths to be measured at site). ii 800 A , 415 volts	Request you to kindly specify the number of bends flexible joints to be considered for this line item.	No of bend, flexible joints etc will be as per actual site condition.
124		Vol05BOQ	SUBHEAD 1: RISING MAINS Page BOQ-E 1_R02 SI No 1.01	Supply, installation, testing and commissioning of plug in type , indoor sandwich type with high conductivity Aluminium Conductor , 415 V,3 phase, 4 wire, vertical Aluminium Rising main Class B or better in following sizes including bends, flexible, provision of the tap off's as per requirement , Adaptor boxes for cable connection if required are inclusive , 2 nos of aluminium earthing strips 50 X 6mm through out the length of the rising mains, end cover, including all types of support and necessary hardware for installation of the rising main etc. complete as per specifications and as required. (Exact lengths to be measured at site). iii 1000 A , 415 volts	Request you to kindly specify the number of bends flexible joints to be considered for this line item.	No of bend, flexible joints etc will be as per actual site condition.

Sl. No.	Page No	Reference	Title / Cl. No.	Description as per Tender Document	Queries	Reply
125		Vol05BOQ	SUBHEAD 1: RISING MAINS Page BOQ-E 1_R02 SI No 1.01	Supply, installation, testing and commissioning of plug in type , indoor sandwich type with high conductivity Aluminium Conductor , 415 V,3 phase, 4 wire, vertical Aluminium Rising main Class B or better in following sizes including bends, flexible, provision of the tap off's as per requirement , Adaptor boxes for cable connection if required are inclusive , 2 nos of aluminium earthing strips 50 X 6mm through out the length of the rising mains, end cover, including all types of support and necessary hardware for installation of the rising main etc. complete as per specifications and as required. (Exact lengths to be measured at site). iv 1250 A , 415 volts	Request you to kindly specify the number of bends flexible joints to be considered for this line item.	No of bend, flexible joints etc will be as per actual site condition.
126		Vol05BOQ	SUBHEAD 1: RISING MAINS Page BOQ-E 1_R02 SI No 1.01	Supply, installation, testing and commissioning of plug in type , indoor sandwich type with high conductivity Aluminium Conductor , 415 V,3 phase, 4 wire, vertical Aluminium Rising main Class B or better in following sizes including bends, flexible, provision of the tap off's as per requirement , Adaptor boxes for cable connection if required are inclusive , 2 nos of aluminium earthing strips 50 X 6mm through out the length of the rising mains, end cover, including all types of support and necessary hardware for installation of the rising main etc. complete as per specifications and as required. (Exact lengths to be measured at site). v 1600 A , 415 volts	Request you to kindly specify the number of bends flexible joints to be considered for this line item.	No of bend, flexible joints etc will be as per actual site condition.

Sl. No.	Page No	Reference	Title / Cl. No.	Description as per Tender Document	Queries	Reply
127		Vol05BOQ	SUBHEAD 1: RISING MAINS Page BOQ-E 1_R02 SI No 1.01	Supply, installation, testing and commissioning of plug in type , indoor sandwich type with high conductivity Aluminium Conductor , 415 V,3 phase, 4 wire, vertical Aluminium Rising main Class B or better in following sizes including bends, flexible, provision of the tap off's as per requirement , Adaptor boxes for cable connection if required are inclusive , 2 nos of aluminium earthing strips 50 X 6mm through out the length of the rising mains, end cover, including all types of support and necessary hardware for installation of the rising main etc. complete as per specifications and as required. (Exact lengths to be measured at site). vi 2000 A , 415 volts	Request you to kindly specify the number of bends flexible joints to be considered for this line item.	No of bend, flexible joints etc will be as per actual site condition.
128		Vol05BOQ	SUBHEAD 1: RISING MAINS Page BOQ-E 1_R02 SI No 1.01	Supply, installation, testing and commissioning of plug in type , indoor sandwich type with high conductivity Aluminium Conductor , 415 V,3 phase, 4 wire, vertical Aluminium Rising main Class B or better in following sizes including bends, flexible, provision of the tap off's as per requirement , Adaptor boxes for cable connection if required are inclusive , 2 nos of aluminium earthing strips 50 X 6mm through out the length of the rising mains, end cover, including all types of support and necessary hardware for installation of the rising main etc. complete as per specifications and as required. (Exact lengths to be measured at site). vii 2500 A , 415 volts	Request you to kindly specify the number of bends flexible joints to be considered for this line item.	No of bend, flexible joints etc will be as per actual site condition.
129		Vol05BOQ	SUB HEAD 4: WIRING Page BOQ-E 49_R02 SI No 4.01	Wiring for light point/fanpoint/ exhaust fan point/call bell point with 1.5 sq.mm. PVC insulated, fire retardant low smoke (FRLS) copper conductor cable, single core/ multi strand, in steel conduit (Including supplying & recess laying of MS conduit and accessories) including the following and complete as required.	Request you to kindly confirm the average length to be considered for this line item	As per Electrical Layout Drawings.

Sl. No.	Page No	Reference	Title / Cl. No.	Description as per Tender Document	Queries	Reply
130		Vol05BOQ	SUB HEAD 4: WIRING Page BOQ-E 49_R02 SI No 4.02	Wiring for twin control light points with 1.5 sq.mm. PVC insulated, FRLS copper conductor cable in MS conduit (including supplying and recess laying of MS conduit) including the following and complete as required.	Request you to kindly confirm the average length to be considered for this line item	As per Electrical Layout Drawings.
131		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 53_R02 SI No 5.01	i) 1X36 watt surface mounted type fluorescent light fixture with opal acrylic diffuser (Philips TCS019 1XTLD36W EBT or approved equivalent) (136AC1) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
132		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 53_R02 SI No 5.01	ii) 2X36 watt surface mounted type fluorescent light fixture with opal acrylic diffuser (Philips TCS019 2XTLD36W EBT or approved equivalent) (236AC1) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
133		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 53_R02 SI No 5.01	iii) 1XTL-5 28 watt box type fluorescent light fixture without reflector(Philips TMS 122M 1XTL5 28 W EBT or approved equivalent) (136b/136w) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
134		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 53_R02 SI No 5.01	iv) 1XTL-5 28 watt box type fluorescent light fixture with reflector(Philips TMS 122M 1XTL5 28 W EBT or approved equivalent) (136b/136w) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.

Sl. No.	Page No	Reference	Title / Cl. No.	Description as per Tender Document	Queries	Reply
135		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 53_R02 SI No 5.01	v) 2XTL-5 28 watt box type fluorescent light fixture without reflector(Philips TMS 122M 2XTL5 28 W EBT or approved equivalent) (236b) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ <u>and above light fixtures</u>	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
136		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	vi) 2XTL-5 28 watt box type fluorescent light fixture with reflector(Philips TMS 122M 2XTL5 28 W EBT or approved equivalent) (236b/) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ <u>and above light fixtures</u>	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
137		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	vii) 2X TL-5 54 watt Surface Mounted fluorescent light fixture (Philips TCS 150 2XTL-5-54 W MI EBT or approved equivalent). (254 SMO1) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ <u>and above light fixtures</u>	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
138		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	viii) 2X TL-5 28 watt Surface Mounted fluorescent light fixture (Philips TCS 150 2XTL-5-28 W MI EBT or approved equivalent). (236 SMO2) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ <u>and above light fixtures</u>	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.

Sl. No.	Page No	Reference	Title / Cl. No.	Description as per Tender Document	Queries	Reply
139		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	ix) 1X 36 watt Surface / Recess Mounted flourscent light fixture (Philips TCS 306 1XTL-36W EBE or approved equivalent). (136 RMO2) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
140		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	x) LED recessed flush mounted down light fixture (Philips RC380B LED-30-6500 PSE OD WH or approved equivalent) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
141		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	xi) 4 X TL-5 14 watt Recess Mounted flourscent light fixture (Philips TBS 570 4XTL5 -14 W HF ODF -H or approved equivalent). (236 RMSQ2) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
142		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	xii) 1X TL5-28 watt LineLUX Recess Mounted flourscent light fixture (Philips RC720B 1XTL5 -28 W EBT OD or approved equivalent). (136 ROM1) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.

Sl. No.	Page No	Reference	Title / Cl. No.	Description as per Tender Document	Queries	Reply
143		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	xiii) 2 X TL5-28 watt Recess Mounted flourscent light fixture (Philips TBS 088 2XTL5 -28 W EBP M2 or approved equivalent). (236 RMO4) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
144		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	xiv) 4 X TL-5 14 watt Recess Mounted flourscent light fixture (Philips TBS 088 4XTL5 -14 W EBP M2 or approved equivalent). (236 RMSQ1) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
145		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	xv) 4 X 14/2x28 watt Recess Mounted flourscent light fixture (Philips TBS 869 4XTL5 -14 W EBP D8 /TBS 869 2XTL5 -28 W EBP D8 or approved equivalent). (236 RMO1) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
146		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	xvi) 4 X 14 watt Recess Mounted flourscent light fixture (Philips TBS 669 4XTL5 -14 W EBP D8 or approved equivalent). (236 RM02) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.

Sl. No.	Page No	Reference	Title / Cl. No.	Description as per Tender Document	Queries	Reply
147		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	xvii) 2X 36 watt Recess mounted clean room flourscent light fixture with bottom opening and Clear acrylic version (Philips TBS670 2X36W TL-D FOP GT or approved equivalent).(2x36 CRF) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
148		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 54_R02 SI No 5.01	xviii) 4X 14 watt recess mounted clean room flourscent light fixture with bottom opening and and Clear acrylic version (Philips TBS651 4 XTL5 -14 W EB CR FOP GT or approved equivalent). Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
149		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	i) 1x9 watt Bulk Head light fixture (Philips FXC 101 1XPL-S/2P11 W AC GR or approved equivalent) BH Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
150		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	ii) 2 X 11 watt Recess mounted light Fixture (Philips FBS 518 2XPL-S/2P 11 W I 240 V or approved equivalent) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.

Sl. No.	Page No	Reference	Title / Cl. No.	Description as per Tender Document	Queries	Reply
151		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	iii) LED recessed flush mounted down light fixture (Philips DN194B LED 15S - 4000PSU WH or approved equivalent) dl4 Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
152		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	iv) 2X18 watt Mirror top with frosted glass (Decon 05CA or approved equivalent) (w toilet) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
153		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	vi) 2 X 11 watt surface mounted mirror optics (Philips FCS 518 2XPLS/2P 11 W I 240 V or approved equivalent) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
154		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	vii) 2 X 18 watt surface mounted down light frosted glass (DECON:PL-2X18 W 03NBS 01 or approved equivalent) (DL0) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.

Sl. No.	Page No	Reference	Title / Cl. No.	Description as per Tender Document	Queries	Reply
155		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	viii) 1 X 11 watt Bed side light Fixture (DECON:PL-05GF01 or approved equivalent) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
156		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	ix) 2 x9 W recessed flush mounted light fixture (Anchor 92586 or approved equivalent) (NLWM) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
157		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	x) 1x13 W recessed flush mounted light fixture (Anchor 92472 or approved equivalent) (NLCM) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
158		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	xi) 2X18 W recessed mounted down light fixture with matt finish reflector & ZZG 145 M RG-C (Philips FBH145 M2XPL-C/4P 18 W HFM or approved equivalent) DL-2 Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.

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159		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	xii) 2x13 watt non louvered path light with frosted glass of green colour. (Decon 54 OP 08 or approved equivalent) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
160		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	xiii) 2X26 W recessed mounted down light fixture with matt finish reflector & ZZG 145 M RG-C (Philips FBH145 M2XPL-C/2P 26 W 240Vor approved equivalent) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
161		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 55_R02 SI No 5.02	xiv) Exit light of pendant mounted maintained type 'EXIT' LED light with inbuilt battery pack for one hour duration.(Crompton greaves EXL/S/1/SE/H/DD or aproved equivalent) Approved makes for Light fitting : Philips / GE/ Crompton Greaves Fancy lights : Kesalec Schreder/ Decon/ and above light fixtures	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.

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162		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 56_R02 SI No 5.03	Supply of following ceiling fans (Crompton Greaves High Breeze or approved equivalent) complete with double ball bearing, motor, blades, downrod, canopies, capacitor, modular type electronic fan regulator, suitable for operation on 230 volts, 50 Hz., 1 phase, AC supply complete as required. i 1200 mm sweep Approved makes for Ceiling fans are Crompton Greaves/ Orient/ Alastom/ Usha	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
163		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 56_R02 SI No 5.03	Supply of following ceiling fans (Crompton Greaves High Breeze or approved equivalent) complete with double ball bearing, motor, blades, downrod, canopies, capacitor, modular type electronic fan regulator, suitable for operation on 230 volts, 50 Hz., 1 phase, AC supply complete as required. ii 900 mm sweep Approved makes for Ceiling fans are Crompton Greaves/ Orient/ Alastom/ Usha	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
164		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 56_R02 SI No 5.04	Supply of 900 RPM, 300 mm (Crompton Greaves Trans Air or approved equivalent) exhaust fan suitable for single phase 230 volts, 50 Hz., AC supply complete with motor, louvers/shutters etc. complete as required. Approved makes for Ceiling fans are Crompton Greaves/ Orient/ Alastom/ Usha	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.

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165		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 56_R02 SI No 5.05	Supply of 400 mm sweep, Crompton greaves model high flow 16" wall mounted fan complete with double ball bearing, motor, blades, capacitor etc suitable for single phase 230 volts, 50 Hz., AC supply, complete as required. Approved makes for Ceiling fans are Crompton Greaves/ Orient/ Alastom/ Usha	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
166		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 57_R02 SI No 5.11	Supplying, installation, testing and commissioning of Passive Infrared(PIR) technology based occupancy sensor having high performance, non regulating programmable type, suitable for connected load upto 10Amp , for mounting height up to 2.8 mtr and for 5 m diameter coverage area along with necessary fixing arrangements i/c programming at site etc. complete as required. Approved Makes for Occupancy Sensor are Philips/ Honeywell/ Schneider/Lutron/Legrand	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
167		Vol05BOQ	SUB HEAD:5- LIGHT FIXTURE AND FANS Page BOQ-E 57_R02 SI No 5.12	Supply , installation, testing and Commissioning of LED Type Aviation light Philips XGP400 1xLEDK2/ RD240V or approved equivalent including its wiring	Request you to kindly provide the models numbers of all equivalent approved makes.	Model numbers of other approved makes meeting the technical specifications of mentioned make may be accepted.
168		Vol05BOQ	SUB HEAD 12: LT CABLES SI No 13.04	In BOQ, SUB HEAD 12: LT CABLES Laying of one number PVC insulated and PVC sheathed power cable 1.1kV grade on surface or on existing cable tray complete as required. Also in Vol04Technicalspecs SPEC Page E-82 R0 Approved Makes for Cable Trays specified as Steelways/ Maheshwari/BEC	This particular line item calls for laying the cables on surface or on existing cable trays. But, quantities for cable trays are not specified elsewhere in BOQ. Request you to kindly confirm the requirement of cable trays in this project.	As per BOQ

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169		Vol05BOQ	SUB HEAD 12: LT CABLES SI No 13.05	Supplying and making end termination with suitable size Copper lugs including double compression glands of following sizes of 1.1. kv grade multicore aluminium conductor PVC insulated and PVC sheathed	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
170		Vol05BOQ	SCOPE OF WORK - BILL OF QUANTITY		Bill of quantity of following electrical works are not available in the tender document 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 We presume that above mentioned works are not part of this contract. Please confirm	This is for internal electrical works only as per BOQ
			Sub Had-10 CCTV System			
171	BOQ-E 58 of 70		10.09(e)	Supply & laying of HDPE Pipe	We request you to furnish the size of HDPE pipe.	100 mm
				List of Approved Makes for Electrical System		
172	SPEC Page E-80 RO		3a	Bus duct/Rising Mains	We request you to give approval of M/s. C&S make for Bus Duct & Rising Mains.	As per approved list of makes
S.No.				Existing Provision	Proposed	Reply
173				(b) Should have satisfactorily completed the work as mentioned below during the last seven years ending last day of the month i.e. Sept' 2014 the works completed. The works completed upto previous day of last date of submission of tenders shall also be considered.	(b) Should have satisfactorily completed the work as mentioned below during the last seven years ending last day of the month i.e. Sept' 2014 the works completed. The works completed upto previous day of last date of submission of tenders shall also be considered.	No Change in Similar work.
				(ii) Three similar works each costing not less than Rs. 162.97 Cr. Or	(ii) Three similar works each costing not less than Rs. 162.97 Cr. Or	

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				Two similar work each costing not less than Rs. 244.46 Cr or one similar work costing not less than Rs. 325.94 Cr.	Two similar work each costing not less than Rs. 244.46 Cr or one similar work costing not less than Rs. 325.94 Cr.	No Change in Similar work.
				AND	AND	
				(II) One work of any nature (either part of 1(a)(i) above or a separate one) costing not less than Rs. 162.97 Cr with a Central/State Government department/ Central Autonomous Body/State Autonomous Body/ Central Public Sector Undertaking/State Public Sector Undertaking	(II) One work of any nature (either part of 1(a)(i) above or a separate one) costing not less than Rs. 162.97 Cr with a Central/State Government department/ Central Autonomous Body/State Autonomous Body/ Central Public Sector Undertaking/State Public Sector Undertaking	
					(iii) The agency should have completed one building project with minimum one basement (either part of 1(a)(i) above or a separate one)	
				"Similar Works" shall mean a project comprising construction of any multistoried RCC framed structure minimum five storeys above ground level with minimum one basement (Basement, machine room and mummy shall not be counted as a storey) including finishing and related internal plumbing & electrical works.	"Similar Works" shall mean a project comprising construction of any multistoried RCC framed structure minimum five storeys above ground level (basement, machine room and mummy shall not be counted as a storey) including finishing and related internal plumbing & electrical works.	
Civil BOQ Item No.					Item Description As per BOQ	Amended Item Description
5.20		Vol05BOQ			Providing and fixing 6mm thick fire rated clear toughened glass of a approved make, of 120 minutes fire rating to be fixed in vision panel including cost of fire ceramic tape and moulding/ beading etc. all complete.	Providing and fixing fire rated clear toughened sandwich glass (Total thickness 11.0 mm) of approved make, of 120 minutes fire rating to be fixed in vision panel including cost of fire ceramic tape and moulding/ beading etc. all complete.

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