



**BANGLADESH-INDIA FRIENDSHIP POWER COMPANY (PVT.) LIMITED**  
 (A JOINT VENTURE OF BPDB & NTPC LTD.)  
 Registered Office: Borak Unique Heights (Level-17),  
 117, Kazi Nazrul Islam Avenue, Dhaka-1217, Bangladesh

**Tender: EPC Township Package for 2x660MW Maitree Super Thermal Power Project at Rampal, Bagerhat**

**Subject: Technical Clarification for Bid Queries**

**Document No.: BIFPCL/ MSTPP/ EPC TOWNSHIP- CLR.F.02 Dated 06.09.2018**

S. No.	Volume	Part	Section	Clause No.	Page No.	Specification Requirement	Bidder's Query	Employer's Clarification
1	2 of 4	B	B0	2.8 11.1	14 of 44 34 of 44	Data to be furnished by the bidder at the time of bid Documents to be submitted by the bidder along with the bid	What minimum/tentative drawing (Plan, Elevation, Section, etc.) need to be issue for Bid-Submission?	For complete data and document to be furnished by the bidder along with bid, Refer clause 2.8 & 11.1 of General Technical Specification, Part-B, Section B0, Vol. 2 of 4 Amendment to be issued seperately in this regard.
2		D					Please clarify that as per coordinate of Bore location mentioned on soil test report (PART-D-Section-D2-SOIL-REPORT, Page-2, Map-1: Location of Additional 13 Borehole) does not match with actual location (Ref-Google Map)	Bidder's Query is noted regarding mismatch of co-ordinate. Amendment in this shall be issued seperately.
3		B	B1				Building Design majorly depends on soil test report, but individual building's soil test report is not done. There after final agreement and soil test, initial consideration may change. How could we consider in our estimate.	Specification in this regard is clear. Kindly also refer clause number 2.2, part-B, section B1, page no. 5 of 45.
4							Should we use BNBC 2006 or 2012? Since BNBC 2012 is not government gazetted yet.	Kindly follow specification

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5		B	B3				You mentioned 1 main sub station with 6 nos. sub-station. In sub-station you mention building wise distribution. May we reorganise our distribution with considering easy work and cost estimate With considering short time need working zone auto cad drawing of this site	Specification in this regard is clear. Please refer clause 8.0.0 of Part B, section B3, page 13 of 164
6		B	B4					The information provided in the Tender document is sufficient and adequate.
7	Scope of work						We understand that following structures shall not be in bidder's scope (as shown in drawings, [Drg no. 1114129-C-002 & 111429-C-003]): a. Area for BIFPCL Field Hostel b. Area for Power Plant EPC onractor Field Hostel c. Auditorium d. Solid waste management Plant Please confirm.  Further, also please confirm whether developing and landscaping of the surrounding area of the above mentioned structures are in the scope of this bid or the same shall be under scope of Power Plant EPC contractor.	Bidder's understanding is correct. It may be noted that this is in the scope of Power plant EPC onractor and not in the Township epc contractor.  Developing and Landscaping of entire township area including the referred areas as mentioned in the query is in the scope of the bidder.  Necessary amendment in this regard would be issued seperately.
8	Code for Design						We understand that relevant IS (Indian Standard) codes can be followed for design. Please confirm.	Specification is clear in this regard. Please refer to clause 13, of Part B, Section B0, Page 41 & 42 of 44.

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9	Electricity CL. 3.1 Part B, Section B0 (Volume 2 of 4), Page 20 of 44					2 numbers 11 kV Power supply will be made available at 11 kV Unit-1 Switchgear and 11 kV Unit-2 Switchgear at Main power house building for the Township. Supply and laying of 11 kV power & control cables from Main power house building to Township is in the Bidder's scope only.	We understand electric power shall be available on free of cost basis for this project. Please confirm.	Bidder's understanding is not correct. Electric power shall be given on chargeable basis.  Amendment in this regard shall be issued separately.
10	Water CL. 3.3 Part B, Section B0 (Volume 2 of 4), Page 20 of 44					Potable water from Power Plant will be supplied at the common boundary of Township and Power Plant.	We understand Construction as well as drinking water shall be available on free of cost basis for this project. Please confirm.	Bidder's understanding is not correct. Bidder has to arrange construction as well as drinking water by themselves. Kindly refer Clause 4.6, Part B, Section B1, page 12 of 45 for drinking water and Clause 4, Part B, Section B0, page 22 of 44 for construction water
11	Land for infrastructure Facilities						We understand that required land for infrastructure facilities like site office, store, cement Godown, Fabrication yard, space for Batching plant & other equipment and labour hutment shall be available within/ nearby township Boundary	The specification is clear in this regard. Bidder has to locate all the enabling facilities in line with the specification requirement. Refer clause 4, Part B, Section B1, page 10 of 45, which is clear in this regard
12	List of Approved make/ vendor						We understand that NTPC's Approved vendor/ Make list shall be applicable for this project.	Vendor list shall be finalised during post bid discussions/ detailed engineering

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13	11.1 B0-GTS.doc					Documentation by the Bidder along with the bid a).Master Drawing / document submission schedule	Clarification on Master Drawing / document submission schedule are required. Soft Copy & AutoCAD Drawing of the Township Zone is required to prepare the Architectural general arrangement drawings (plans, elevations and perspective views) of all buildings and structures.	The information provided in the Tender document is sufficient and adequate.
14	B-1-1-General.doc page 4					4(d): Architect shall be of International repute	Is it mandatory or not.	Specification requirement is clear in this regard.
15	B1-2-SOW.doc page(5&6)					Post filling Soil Investigation (2014) A post filling Soil Investigation Survey was also carried out and the report is also annexed with this tender specification. Information from the soil investigation performed in the year 2014 at this site is provided to the Bidders for information.	Soil investigation report is not available with the TD. PART – D SECTION –D2 is not available with the TD.	The said information is available in the Part-D, Section - D2.
16	B1-3-06-Foundations.doc					Bore Hole Log	B H Log is not available	The said information is available in the volume 4 of 4,Part-D
17	B1-3-06-Foundations.doc					Temporary casing length shall be 16m below NGL	Please confirm	Refer B1-3-06-Foundations.doc, clause 3, part B, section B1, page 3 of 6. Specification is clear regarding length of temporary casing.
18	Part-B, Section- B3, Clause no. 2.4.8 of Page no. "9 of 164"					2nos. 11KV, 3-Ph, 50Hz, Incoming Supply at 11KV switchgear located at Power Plant at a distance of about 1Km from Township.	Is it under scope of execution of the Tenderer? If so then it has to be considered underground 11KV cable line or Overhead Line?	underground 11KV cable line or Overhead Line shall be decided during detailed engineering. underground 11KV cable line would be preferable.

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19	Part-B, Section- B3, Clause no. 2.4.8 of Page no. "10 of 164"					1no. 11KV, 3-Ph, 50Hz, Feeder at main plant EPC contractor's construction power sub-station for Township construction power supply.	In TOR, there are 2nos. 11KV Main Incoming Feeders (MRSS), 1no. 11KV Bus-coupler, 2nos. 11KV Bus-PT panel, 6nos. 11KV Outgoing Feeders, 1no. 11KV outgoing spare Feeder and 5nos. 11KV RMU (3nos. Isolators in SF6) & 1no. Tee-Off Unit with VCB for each distribution dry type Transformers (as per Section B-3.3: 11KV switchgears of clause no. 3.1.0 of page no.30 of 164). Is it mean the same or contradictory with mentioned clause?	Bidder's understanding is not correct. Specification reference mention is regarding construction power terminal point whereas bidder's query refers to the scope of electrical supply.
20	Part-B, Section- B3, "Annexure-B: Bill of Quantities" of Page no. "16 of 164" of Sl. No. 1 and Section-B3.5, Clause no. 8.0.0 of Page no. "48 of 164";					Technical Parameters of Dry Type Transformer of Sl. No. 6: Nominal System Voltage : 11KV/0.433KV	As per BNBC & IEC Standards, the Nominal System Voltage is 415VAC, 50Hz, 3-phase, 4-wire or 240VAC, 50Hz, Single phase for all authority in Bangladesh like BPDB, REB, DESCO, DPDC, Khulna PDC etc. under "Electricity Act of Bangladesh 1982". But the Secondary Nominal System Voltage of the mentioned dry type Transformer is 433VAC instead of 415VAC. Is it contradictory to the basic rules & regulation of Electricity Act of Bangladesh, BNBC & IEC Standards? Nominal System Voltage to be 11/0.415KV as per IEC standard & BNBC, Please confirm.	Bidder's understanding is correct. Nominal system Voltage to be 11/0.415KV. Amendment is this regard shall be issued seperately.
21	Part-B, Section- B3.8: Rising Main, Bus Trunking & Busbar system of Clause no 3.1.0; Clause no. 3.1.8 & clause no 3.2.0(e) of Pages no. "59, 60 & 61 of 164"					for Copper BBT system of Sandwich Principle construction with IP42 for Indoor use & IP54 for Outdoor application.	As per IEC Standard, the degree of protection IP65 or IP68 to be applicable for Outdoor use for BBT system. IP42 or IP54 are applicable for Indoor use only. Please confirm.	Bidder's understanding is correct. The degree of protection IP65 or IP68 to be applicable for Outdoor use for BBT system. IP42 or IP54 are applicable for Indoor use. Amendment is this regard shall be issued seperately.

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22	Part-B, Annexure-B: "Bill of Quantities" of Page no. "19 of 164"					for UPS system for Hospital complete with Battery & UPS DB.	How and what are the major parameters for determining the capacity, ratings, quantities of UPS, Battery Back-up-hours, limit of distortion of Sine waves, coverage of the medical equipments under UPS and others etc. Please give specific guide line in this regard.	UPS system for Hospital shall be deleted. Amendment in this regard shall be issued seperately.
23	Part-B, Section-B3.4: "Ring Main Units" of clause no. 3.1.0, clause no. 3.3.0 & clause no. 3.4.0 of Page no. "37 of 164"					for SF6 Insulated RMU to be provided for EPC Township Package. Variation between the Schematic diagram of (a) Main Single Line Diagram for Township, Single Line diagram for 11KV Switchgear etc attached with TOR and TOR for EPC Township Package.	Which one will be govern in the case of discrepancy in technical specifications of the Electrical materials and Schematic diagram or drawings.	There is no discrepancy in Specification or Drawing. If there is any discrepancy or mismatch in Specification and drawing for any item(s), It will be resolved seperately as per the requirement
24							When & what is the Target date of Feeding Power from "Main Plant Package"	Target date for radiness of feeding power from Main Plant HV unit switchgear is 13/06/2020, which may change
25							Whether the construction to be executed by temporary Diesel Gen. set or REB power source? Because the incremental cost involvement may be considered for simultaneous construction work for Township package.	Please refer to clause 4, part B, section B0, page 22 of 44 for construction power.construction power shall be given on chargable basis. Amendment in this regard shall be issued seperately. However for uninterrupted progress of work, back up DG should be arranged by the bidder at this own cost.
26							If delay in feeding 11KV to Township from "Main Plant Package" then REB feeder will be feeding to Township or NOT?	If delay in feeding 11KV to Township from "Main Plant Package", then supply from construction power feeder would be continued.

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27	Part-B, Section- B2, Clause no. 2.2.0 of Page no. "17 of 38"					Scope of work : Air Conditioning system mentioned Air cooled DX Type Air Conditioning units but in details mentioned Air cooled chiller units which is contradictory	Please confirm which system has to be followed	Bidder to consider Air cooled DX Type Air conditioning units. Amendment in this regard shall be issued seperately
28	Part-B, Section- B2, Clause no. 2.3.0 of Page no. "20 of 38"					Air conditioning system for hospital mentioned Air Cooled DX type Air Conditioning system. This DX type Air conditioning system can't customize the units which is difficult for Hospital specialy ICU, Ots. In ICU, OT has to be control particle, Temperature, Humidity, Air Flow (Laminar Flow) etc. DX units is regular units, Air cooled DX system can not meet the all parameter for ICU, OT. for Hospital HVAC design, there is no sufficient guideline/ data inside document.	For Hospital HVAC system is better for chilled water system. Please provide the guideline/ data for HVAC system design	Bidder to consider Air cooled DX Type Air conditioning units as per Tender specification.
29	Part-B, Section- B2, Clause no. 2.3.0 of Page no. "21 of 38"					Air Cooled DX Type Air Conditioning units preferably 2x100% (1 duty+ 1 standby) and the units have multiple compressors. If it is multiple compressor again need standby units?	Please confirm	Bidder to comply with specification requirement.

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30	Part-B, Section- B2, Clause no. 2.3.0 of Page no. "21 of 38"					Air Cooled DX Type Air Conditioning units mentioned provided for the DX units and AHU's. For DX units is outdoor type because it is aircooled, there is no scope to install inside room	Please confirm the outdoor locations	This is EPC contract. Bidder has to design as per specification and shall be finalized during detailed engineering
31						Staircase / Lift pressurization system for smoke control in case of fire, it is not mentioned in the Tender documents.	Is it required? Please onfirm	Bidder to comply with specification requirement.
32	Water supply					Area Water Supply	Water supply Network: Grid system or Dead end system	This is EPC contract. Bidder has to design as per specification and shall be finalized during detailed engineering
33	Water supply					Area Water Supply	What pressure to be maintained in water supply system	This is EPC contract. Bidder has to design as per specification and shall be finalized during detailed engineering
34	Water supply					Area Water Supply	Source of water supply: Ground water or Surface water	Specification requirement is clear in this regard. Refer clause 1, page 2 of 12, part B, Section B1, B1-3-10-Water Supply System.doc
35	Water supply					Area Water Supply	Water treatment will be needed or not	Water Treatment system is not required. Potable water shall be supplied from power plant
36	Building Water supply						Pressurized system or underground-Overhead tank system	Please comply with the specification.
37	Building Water supply						Hot water supply in all toilets and kitchen of every building or in specific building	Specification requirement is clear in this regard. Refer clause 2, page 2 of 12, part B, Section B1, B1-3-10-Water Supply System.doc

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38	Building Water supply						Non- circulating or circulating hot-water supply system	This is EPC contract. Bidder has to design as per specification and shall be finalized during detailed engineering
39	Sanitary Drainage					Area Drainage	Combined sewer or Sanitary and storm sewer system	Specification requirement is clear in this regard
40	Sanitary Drainage					Area Drainage	Sewage treatment plant or CETP would be the disposal point	Specification requirement is clear in this regard. Refer clause 1, page 2 of 11, part B, Section B1, B1-3-12-Sewage.doc
41	Sanitary Drainage					Area Drainage	Septic tank system for buildings shall have to be developed or not	Specification requirement is clear in this regard
42	Sanitary Drainage					Building Drainage	One pipe or two pipe system	This is EPC contract. Bidder has to design as per specification and shall be finalized during detailed engineering
43	Storm Drainage						Rainwater harvesting and groundwater recharging would be developed?	Rainwater harvesting and groundwater recharging is not envisaged in this package
44	General						Request to provide editable version of tender drawings	The information provided in the Tender document is sufficient and adequate.
45	General					Tender drawings Approved / Recommended vendor list of major items	Request to provide approved / recommended vendor list of major materials	Vendor list shall be finalized during post bid discussions/ detailed engineering
46	Functional Technical Spec		11.1		34		The required area and MEP drawings list is enormous and deserves more time for preparation. It appears that "Lowest Bid" is the only selection criteria and design drawing have no grade or value. Therefore, design drawings should better be omitted Please give the autocad file of layout plan	Please comply with the specification
47								The information provided in the Tender document is sufficient and adequate.

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48	Defects Liability Period	1.1(t), PCC				2 years from the date of handing over of each building/facility to the Employer	Request you to reduce the Defects Liability Period to 1 year from the date of handing over of each building/facility to the Employer.	Please comply with the specification
49	SITE INFRASTRUCTURE						We request you to provide us land within the site premises free of cost for setting up our site infrastructure.	Refer to Clarification at S.No. 11
50	FACILITIES TO BE PROVIDED TO CLIENT						We request you to provide details for the facilities to be provided to client.	Specification is clear in this regard
51	LABOUR CAMP & WELFARE					The Contractor, in particular, shall provide proper accommodation to his or her labourers and arrange proper water supply, conservancy and sanitation arrangements at the site for all necessary hygienic requirements and for the prevention of epidemics in accordance with relevant regulations, rules and orders of the government.	We request you to provide us land within the site premises free of cost for setting up our labour hutments.	Please comply with the specification
52	Construction Water	Part B, Section b0, General	Technical specification : 4			The Contractor shall arrange for Construction water	We request you to provide construction water at at least three points within the site premises free of cost. Necessary arrangement for distribution of the same shall be done by the Contractor.	Bidder has to arrange construction water by themselves. Kindly refer Clause 4, Part B, Section B0, page 22 of 44

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53	Construction Power	Part B, Section b0,	General	Technical specification : 4		One no. 11 kv 3 phase 50 Hz feeder will be made available at the main plant EPC contractors construction power sub station for delivering township construction power supply. Supply and laying of 11 kv power and control cables from main plant EPC contractors construction power sub station to the Township is in bidder scope only.	We request you to provide construction power at 415 Volts at least one point within the site premises free of cost. Necessary arrangement for distribution of the same shall be done by the Contractor.	Specification is clear in this regard. Kindly refer Clause 4, Part B, Section B0, page 22 of 44
54	Approval of drawings					time period for approval of drawings are not mentioned.	We request you to fix the time period for approval of drawings & consider the time lapse for extension of time due to delay for approval of drawings.	This shall be finalized during post award discussion/ detailed engineering
55	Environment Clearance /approval Status						Please specify if any environmental clearance required or taken for this project, if yes request you to kindly share the document.	EIA has been approved for the project. Copy of the same is available on BIFPCL website
56	Green Building Norms						Please specify is this project to be certified under any Green Building certifications. If yes please specify. Also confirm if any specific norms to be followed while designing & execution of the project. Please confirm.	Green Building certification is not envisaged for this Township. Specification is clear in this regard

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57	Tender Drawings-Part-B	Section-B4				Built up area Calculations	Referring to the unit block and floor plans provided, Total built up area will differ from the area specified in the statement of project description after developing the drawings and loading all areas with wall thickness. Kindly specify what will be mode of BUA calculations. Please confirm. If possible please provide autocad drawings for all structure along with area statement.	This is functional specification. Bidder has to comply with specification requirement. Built up area indicated in the tender drawings are approximate. Final area arrived during engineering by the Bidder shall not be less than what is indicated in the tender drawings. No extra compensation shall be applicable for any increase in final area in comparison to tender drawings.
58	Tender Drawings-Part-B	Section-B4				Area Statement	We observe that area statement provided along the drawings are approximate. kindly confirm should we strictly followed from the tender drawing document approximate area exceeds after the unit has been designed keeping required wall thickness & common area. Please confirm.	This is functional specification. Bidder has to comply with specification requirement. Built up area indicated in the tender drawings are approximate. Final area arrived during engineering by the Bidder shall not be less than what is indicated in the tender drawings. No extra compensation shall be applicable for any increase in final area in comparison to tender drawings.
59	Tender Drawings-Part-B	Section-B4				Design Changes	Please specify if we have any scope of improving building elevations as per our standard design practice for EPC or we should follow some of the elevations shared in the tender drawing document to all other remaining buildings. Please confirm.	This is an EPC contract. Elevations indicated in the tender drawings are for reference/ information. Architectural elevation and other details shall be finalized during detailed engineering in consultation with the Owner.
60	Tender Drawings-Part-B	Section-B4				Miscellaneous Building Details	Please share details design & drawings of police station, cyclone shelter which is in township facilities outside master plan.	Layout of Police station and Cyclone shelter shall be finalized during detailed engineering considering specification and local regulatory requirements in consultation with the Owner.

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61	Part-B-SECTION-B3- General-Technical-Specification-Detailed- Technical-Specification					Schedule of finish	We observe that in Schedule of finish for Group 2 for all building it is mentioned for mirror polished homogenous tile. Whereas for sports room, gym we don't recommend for such flooring. Kindly confirm do we have any flexibility to change such schedule of finishes or we have to adhere the same.	Amendment in this regard shall be issued separately
62						Community Centre	Kindly confirm whether any acoustic treatment to be considered for meeting & conference rooms. Also kindly provide the details of type of partitions/walls, seating types furniture, stage type for community & conference rooms.	Acoustic treatment is not envisaged in the conference rooms. Other details shall be finalized during detailed engineering.
63						Furniture Scope	Kindly confirm the scope for furniture & other brought out items required in public utilities rooms of hospitals, police station, community centre, school etc.	for Furniture scope, Refer Specification clause 3.9, Part B, Section B0, page 21 of 44
64						Kitchen Equipments	Kindly confirm the scope of kitchen equipments to be considered in contractor scope or only tapping provisions is to be provided.	Refer Specification clause 3.9, Part B, Section B0, page 21 of 44
65						Door Window Schedule	Kindly provide detail scope, specifications for doors & windows for individual structure.	Please follow specification. Details shall be finalized during detailed engineering
66						Master Plan	Please specify if we have any scope to modify or improve master plan given to us in tender documents	Yes. Part B, Section B1, Sub Section 1, General, Clause 2, page 3 of 4, paragraph 4 says "Township layout drawing provided in this tender is indicative only. Contractor shall improvise this layout during detailed engineering in consultation with Owner."

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67						Architectural Submittal	Please specify the architectural submission in the form of presentation drawings, perspective views, 3D-models & detailed drawings. What should be submitted with this BID.	Refer clause 2.8, Part B, section B0, page 14 of 44 and clause 11, Part B, section B0, page 34 of 44 for documents to be submitted along with bid. Amendment in this regard shall be issued seperately
68						Compound Wall	Kindly provide typical compound wall detail.	Compound wall details shall be finalized during detailed engineering in consultation with the Owner.
69	Illumination system		Part B, Section b0, General Technical specification : 2.4 aa			Illumination system (internal & external) for the complete facilities inside & outside the township boundary	Please share the layout/scope where the illumination are required to be provided other than the township boundary.	Please follow specification. Clause 2.4 (aa), Part B, Section B0, General Technical specification, page 12 of 44. Also amendment for this clause shall be issued seperately.
70			Part B, Section b0, General Technical specification : 3.10			UPS Supply for Hospital	We understand that supply of equipments for hospitals are not in bidders scope other than equipments any UPS required for hospital equipments are also excluded from the scope. Please confirm.	UPS scope to be deleted. Amendment shall be issued seperately in this regard.
71	UPS		Part B, Section b3, Detailed Technical specification : 3.1.0			UPS shall provide uninterrupted power supply to critical AC loads in the hospital	We understand for the complete project UPS is required for hospital building only & also it is for critical AC loads. Please confirm	UPS scope to be deleted. Amendment shall be issued seperately in this regard.
72	Architectua l concept		Part B, Section b1, Detailed Technical specification : 3 B1-1-General.doc, page 3 of 4			Buildings shall be suitable for installation of solar photovoltaic panels on roof tops for renewable energy purpose	We understand the roof tops structural design should be capable of taking the structural loads of solar panels. However supply & installation of solar panels for power supply is not in this scope of works. Please confirm	Bidder's understanding is correct
73	Terminal points		Part B, Section b3, Detailed Technical specification : 2.4.8			Two nos. 11 kv incoming supply at 11kv switchgear located at a distance of about 1km from township	Please confirm whether the 1 km. length of individual cable is from Power plant 11KV HT Panel feeder to the proposed Township MRSS 11KV HT Panel Incoming feeder . Please confirm.	Bidder's understanding is correct

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74	Fuel System	Part B, Section b3, Detailed Technical specification : 4.2.0			The capacity of the day tank shall be sufficient atleast 6hours operation.	Is there any limitation/restriction on the capacity of Fuel tank. Please confirm	Specification is clear in this regard
75	Lighting Mast	Part B, Section b3, Detailed Technical specification : 4.3.0			Lighting Mast : 30mtrs.	Please provide the location where the 30mtrs. Lighting mast are proposed	Bidder has to design location and number of lighting mast as per illumination standards. However minimum 6 Nos. of Lighting mast needs to be provided. Amendment shall be issued seperately in this regard.
76	External Lighting	Part B, Section b3, Detailed Technical specification : 4.2.0			Electrical wiring for Garden lighting	Garden light fittings are mentioned in the clause, please share the layout, if any.	Bidder to comply with specification requirement. Other details shall be finalized during detailed engineering
77	Metering kiosk	Part B, Section b3, Detailed Technical specification : 3.5.0				11KV HT Metering is mentioned in the specification scope however it is not seen in the electrical main single line diagram. Please confirm the scope of providing the same.	This clause pertains to construction power requirement
78	11KV Overhead line / cable & 11KV DP Structure	Part B, Section b3, Detailed Technical specification : 3.5.0			11KV Overhead line / cable & 11KV DP Structure	Please confirm whether to consider 11KV Overhead line or underground cable from Power plant to MRSS for permanent power supply or is only applicable for construction power.	From Power plant to MRSS for permanent power supply, underground 11KV cable line or Overhead Line shall be decided during detailed engineering. underground 11KV cable line would be preferable. However for construction power, specification requirement is clear
79	Main single line diagram					Please clarify the scope of supply of energy meters. We assume it will be supplied by power supply provider co.	Bidder's understanding is not correct. Please refer clause 4.6.0, section B3.3, 11kv Switchgear, page 33 of 164
80	Main single line diagram					Please confirm the material & type of Busduct / rising mains ie. Copper sandwich type or aluminum	The material & type of Busduct / rising mains shall be Copper sandwich type. Amendment in this regard shall be issued seperately.

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81	Main single line diagram						We understand from the electrical schematic/specs that all the cables /earthing is to be considered of copper material, whether other than copper we can use Aluminium or G.I., as applicable. Please confirm	Specification is clear in this regard. all the cables /earthing is to be considered of copper material
82	Lighting fixtures						Please confirm whether we have to consider the supply & installation of LED tube light fitting, ceiling fan, exhaust fan inside the flats other than common area.	Specification is clear in this regard
83	Electrical fixture Matrix						Please share the individual building electrical points quantity matrix of flats & other areas.	This is EPC contract. Bidder has to design and shall be finalized during detailed engineering
84	Oil Storage Tanks						We understand from the technical specification that there is no requirement of Bulk oil storage tank for DG operation. Only the requirement is day oil tank with 6hrs. operation for individual DG. Please confirm	Specification is clear in this regard
85	Part B, Section b3, Detailed Technical specification/Fire Detection & Alarm System					Fire Detection & Alarm System, Hot redundant processor	It is mentioned as Fire alarm Panel shall have hot-redundant processor, however this shall be biased as most of the FAS brands doesnot have this feature so instead CPU in degrade mode to be accepted. Kindly confirm	Not accepted. Bidder to comply specification requirement.
86	Part B, Section b3, Detailed Technical specification/Fire Detection & Alarm System					Fire Detection & Alarm System, Repeater Panel	Only One repeater Panel shall be considered at only one gate and security house (sr. no. 8 in drawing no. 1114129-C-002). Kindly confirm	Confirmed, As per Tender specification bidder to consider One repeater Panel at only one gate and security house.



S. No.	Volume	Part	Section	Clause No.	Page No.	Specification Requirement	Bidder's Query	Employer's Clarification
87	Part B, Section b3, Detailed Technical specification/System Description					Fire Detection & Alarm System	Conventional Fire Alarm System (FAS) with MCP & Hooters shall be considered for Type B,C,D, guest house, studio appt., field hostel staff, nursery & high school, shopping centre, post office, bank & estate office, hospital, indoor sports complex, main receiving substation, distribution substations, maintenance store, gas cylinder godown . Kindly confirm	Bidder to comply specification requirement.
88	Part B, Section b3, Detailed Technical specification/System Description					Fire Detection & Alarm System	Addressable FAS shall be considered with automatic detectors, MCP, Hooters for mosque, temple, community centre, executive club, non-executive club, portable water, service water & fire water pump house. Kindly confirm	Bidder to comply specification requirement.
89	Part B, Section b3, Detailed Technical specification/System Description					Fire Detection & Alarm System	Only One Addressable Fire Alarm Panel shall be considered at MRSS which shall cater Mosque, temple, community centre, executive club, non-executive club, portable water, service water & fire water pump house. Kindly confirm	Bidder to comply specification requirement.
90	Part B, Section b3, Detailed Technical specification/System Description					Fire Detection & Alarm System	We understand that Master Fire Alarm Panel (FAP) shall be provided by Client/ Owner at Fire Water Pump House and FAP at MRSS shall be interfaced to this Master FAP. Kindly confirm	Bidder's understanding is not correct.As per Tender Specification Master fire alarm panel, Local supervisory fire alarm panel, Repeater panel and All Fire pumps controllers and its interfaces shall be in Bidder's scope.
91	Part B, Section b3, Detailed Technical specification/System Description					Fire Detection & Alarm System	If above understanding is correct then kindly share the Make & Model no. of the FAP provided by the Client/ Owner.	The Query is not relevant. Refer Clarification above.

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S. No.	Volume	Part	Section	Clause No.	Page No.	Specification Requirement	Bidder's Query	Employer's Clarification
92	Part B, Section b3, Detailed Technical specification/System Description					Fire Detection & Alarm System	SMF Lead acid battery of sufficient capacity to cater the load of Fire Alarm System for 24hours during normal condition and 30 minutes during alarm condition shall be considered in Fire Alarm Panel. Kindly confirm	Confirmed. Amendment in this regard shall be issued seperately
93	Part B, Section b3, Detailed Technical specification/System Description					Fire Detection & Alarm System	2cx1.5sq.mm FRLS (outersheath) armoured cable shall be considered for Fire alarm system	Bidder to consider power & control as per specification refer below: 1100V Grade XLPE insulated Armoured cable for required size (Minimum 2Cx1.5sq.mm Maximum 2Cx2.5sq.mm)
94	Part B, Section b3, Detailed Technical specification/Telephone & television system					EPABX Sub system	It is understood that the fibre optic cable from the Main EPABX Exchange upto the EPABX sub system at MRSS shall be provided by Client/ Owner. Kindly confirm.	Confirmed
95	Part B, Section b3, Detailed Technical specification/Telephone & television system					EPABX Sub system	Kindly mention the no. of PRI lines, BRI lines, ISDN lines to be considered for EPABX sub system.	Details shall be finalized during detailed engineering in consultation with the Owner.
96	Part B, Section b3, Detailed Technical specification/Telephone & television system					EPABX Sub system	We shall consider 80 analogue extensions and 380 digital extensions for EPABX sub system. Kindly confirm	Specification is clear in this regard. Kindly refer to clause 3.2.0, Part B, section B3.18, page 121 of 164
97	Part B, Section b3, Detailed Technical specification/Telephone & television system					EPABX Sub system	We shall not consider any telephone instruments. Kindly confirm	Specification is clear in this regard. Kindly refer to clause 3.2.0, Part B, section B3.18, page 121 of 164
98	Part B, Section b3, Detailed Technical specification/7.8 Community Centre					Public address system	Public address system shall not be considered for any of the buildings/ areas, except in community centre where only cabling shall be considered and not speakers, amplifiers, controllers, etc. Kindly confirm	Confirmed
99	Part B, Section b3, Detailed Technical specification/7 General Requirement					Access Control System	Only Conduits shall be considered for the provision of access control system. Kindly confirm	Confirmed

S. No.	Volume	Part	Section	Clause No.	Page No.	Specification Requirement	Bidder's Query	Employer's Clarification
100	Part B, Section b3, Detailed specification/7			Technical Requirement		Access Control System	Kindly mention the no. of non- residential buildings and the doors/ area of the non- residential buildings where access control system provision shall be considered. TV distribution system shall be considered for residential buildings only. Kindly confirm.	Amendment in this regard shall be issued seperately  It shall be considered for all residential and non-residential buildings . Amendment in this regard shall be issued seperately
101	MATV					MATV		Details shall be finalized during detailed engineering in consultation with the Owner.
102	MATV					MATV	Kindly provide the point matrix for TV points.	Details shall be finalized during detailed engineering in consultation with the Owner.
103	MATV					MATV	TV distribution system shall be considered with Tap-off box/splitter, RG-11/RG6 cables and TV socket points. Kindly confirm	Details shall be finalized during detailed engineering in consultation with the Owner.
104	MATV					MATV	Head end equipments like Antenna, Distribution amplifier, etc. shall not be considered as the same shall be provided by Client's Service provider	Confirmed
105	MATV					MATV	TV monitors shall not be considered. Kindly confirm	Confirmed
106	Data - Internet					Data - Internet	Internet distribution shall be considered only for residential buildings. Kindly confirm.	It shall be considered for all residential and non-residential buildings . Amendment in this regard shall be issued seperately
107	Data - Internet					Data - Internet	Kindly provide the point matrix for Internet points.	Details shall be finalized during detailed engineering in consultation with the Owner.
108	Data - Internet					Data - Internet	Internet distribution shall be considered with horizontal cat6 cabling from shaft to each flat and RJ-45 socket outlet. Kindly confirm	Specification requirement is clear in this regard. Bidder to comply with specification requirement. Refer clause B 3.4.0, Part B, Section B3.18, page 123 of 164.

S. No.	Volume	Part	Section	Clause No.	Page No.	Specification Requirement	Bidder's Query	Employer's Clarification
109	Boom Barriers					Boom Barriers	We shall consider Manually operated (Push Button Type) boom barrier at Main Entry Gate Only. Kindly Confirm	Details shall be finalized during detailed engineering in consultation with the Owner.
110	CCTV					CCTV	We shall not considered CCTV system. Kindly confirm	Confirmed
111	AV System					AV System	We shall not considered Audio Visual system. Kindly confirm	Confirmed
112	BMS System						We shall not considered BMS system. Kindly confirm	Specification is clear in this regard, Please refer to clause 3.5.1, Section B3.2, page 27 of 164
113	Part-B-SECTION-B0-TO-SECTION-B3-General-Technical-Specification-3.0 Exclusion & limit of supply					Potable Water	Kindly share the potable water supply main supply points locations on survey/master layout.	Please follow specification. Location shall be finalized during detailed engineering
114	Part-B-SECTION-B0-TO-SECTION-B3-General-Technical-Specification-3.0 Exclusion & limit of supply					Sewage Treatment	Kindly share the sewage network connection points where the township sewage lines can be connected/terminated.	Please follow specification. Location shall be finalized during detailed engineering
115	Part-B-SECTION-B0-TO-SECTION-B3-General-Technical-Specification-B1 3.10 Water Supply system					UGWT	please confirm if underground tank is to be provided for low rise buildings, or their OHTs shall be filled with unerground distribution network itself.	Underground tank shall be provided for all buildings of more than two storeys. Amendment in this regard shall be issued seperately.
116						General	Since the water table may be very high in this area, can we propos Rainwaer Harvesting Tanks, instead of recharge Pits. Please confirm.	Bidder to comply with specification requirement.
117	Part-B-SECTION-B0-TO-SECTION-B3-General-Technical-Specification-B1 Fire Detection/System Description					part B section B2 Mechanical : No protection shall be required within the dwelling units of flats and Apartments of buildings having more than 20 meters height.	Please confirm whether same is applicable for buildings having height less then 20 meters or any additional norms to be followed. Please confirm.	Specification requirement is clear in this regard.

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S. No.	Volume	Part Section	Clause No.	Page No.	Specification Requirement	Bidder's Query	Employer's Clarification
118	Part-B-SECTION-B0-TO-SECTION-B3-General-Technical-Specification-Detailed-Technical-Specification (1)_clause3.8				Design engineering of HVAC Works in all the buildings/ area of township shall be in township vendor scope and supply,erection and commissioning excluded for AC.	We understood that designing, supply,erection and commissioning of AC equipments are not in bidder scope.Please clarify?	Design engineering of HVAC Works in all the buildings/ area of township shall be in Bidder scope. Supply,erection and commissioning of AC equipments are not in Bidder scope.
119	Part-B-SECTION-B0-TO-SECTION-B3-General-Technical-Specification-Detailed-Technical-Specification (1)_clause3.8				Only electrical connection points and fittings for air conditioning system shall be in bidder scope.	We understood that only low side works like ducting,grille dampers, piping and insulation shall be in bidder scope.	Design engineering of HVAC Works in all the buildings/ area of township shall be in Bidder scope. Supply,erection and commissioning of AC equipments are not in Bidder scope.
120	AC Scope for Server Room				AC Scope for Server Room	The AC scope for the server room/ HUB room shall not be considered in bidder scope if any.Please clarify	As per Tender Specification bidder to consider Split type air conditioning system for all computer rooms. However Server room/ HUB room shall also be considered as computer room. Amendment in this regard shall be issued seperately
121	U Value				U Value	Please provide glazing parameters and U value of wall and roof for buildings having HVAC scope for design.	Design engineering of HVAC Works in all the buildings/ area of township shall be in Bidder scope. Supply, erection and commissioning of AC equipments are not in Bidder scope.
122	Acoustic Insulation				Acoustic Insulation	The AHU room acoustic insulation shall be in bidder scope? Please clarify.	Design engineering of HVAC Works in all the buildings/ area of township shall be in Bidder scope. Supply,erection and commissioning of AC equipments are not in Bidder scope.

S. No.	Volume	Part	Section	Clause No.	Page No.	Specification Requirement	Bidder's Query	Employer's Clarification
123	Underdeck insulation					Underdeck insulation	The underdeck insulation shall be in bidder scope? Please clarify.	Design engineering of HVAC Works in all the buildings/ area of township shall be in Bidder scope. Supply,erection and commissioning of AC equipments are not in Bidder scope.
124	Lift Pressurization					Lift Pressurization	Kindly confirm whether all lifts to be pressurized or only fire lift needs pressurization.Please clarify.	Tender specification is clear in this regard. Please refer clause 2.3.0, Part-B, section-B2, page 22 of 38
125	Lift lobby & staircase Pressurization					Lift lobby & staircase Pressurization	Kindly confirm internal lift lobbies & internal staircase (Non exposed to atmosphere) shall be pressurized. Please confirm.	Not required, Bidder to comply with specification requirement.
126	Technical specification					Technical specification	Please provide detailed technical specification for HVAC system to be considered for design.	Please refer Detailed Technical Specification -Mechanical ,Clause 2.0.0 HEATING, VENTILATION AND AIR-CONDITIONING SYSTEM, Part B, Section B2 17 of 38, Detailed Technical Specification -Mechanical.
127	Smoke Extraction system					Smoke Extraction system	Please specify the areas to be considered for smoke extraction system if any.	Not required, Bidder to comply with specification requirement.
128	Design Drawings					Design Drawings	We request you to kindly provide detail architectural & MEP drawings in CAD format for all building.	The information provided in the Tender document is sufficient and adequate.
129	PART-C-Technical-Schedules					Technical Schedule	We understand that provided technical data sheet along with tender documents need to be submitted along with bid. We request that at pre bid stage we will provide standard data sheet from vendors for high side items and required data sheet ( PART-C-Technical-Schedules) will be furnished at post award of work. Please confirm.	Bidder to comply with specification requirement.