Design, Manufacture, Supply, Installation, Testing and Commissioning of E&M works comprising of Electrical Sub Stations with HT and LT works, Ventilation and Air Conditioning Systems (VAC), Fire Detection Systems, Fire Suppression (Fire Fighting) Systems, Building Management System (BMS), EOT cranes, Air-Compressors including compressed air piping works and Plumbing Pumps for the Depot Buildings including OCC and at grade Aarey Station for "Mumbai Metro Line -3"

CONTRACT NO: MM 3-CBS-DEM-R

	PREBID QUERIES					
Sr. No.	VOL	Page No.	Clause No.	Tender Description	Query	Response
1	As per BOQ			33KV GIS - Type test reports.	As per the global guideline for all the OEMs that repeat type test shall not be performaed unless and until there is change in manufacturing design. So type test reports available with OEMs are old more than 5 years. Kindly accept.	
2	VOLUME 4	Page 126 of 151	2.16.1.2 - XIII	Calibrated Day Services Tank minimum capacity of 990 litres for operation of DG sets. The tank shall be made out of 14 SWG thick MS sheets with all accessories such as oil level indicator, drain plugs, manhole and painting etc. complete as required by Indian Explosive Rules and Regulations.	Please share the details of distance betweeen DG and Day tank for better	
3	VOLUME 4	Page 126 of 151	2.16.1.2 - XVII	Supply and fixing of hot air exhaust duct of 22 SWG GI sheet with DG canopy to remove hot air (if required).	Please confirm about ducting is required or not. About DG location nothing is mentioned in Architectural drawings.	ASS-Room Equipment layout, Trench Layout with sizing, etc. is part of detailed design. Please refer Tender Architectural Drawings. Tender Conditions Prevail.
4	VOLUME 4	Page 126 of 151	2.16.1.2 - B	Exhaust piping system including MS pipes, specials, bends, flanges and reducer's etc. connection to silencers and lagging the exhaust pipe as per specifications.	· · · ·	ASS-Room Equipment layout, Trench Layout with sizing, etc. is part of detailed design. Please refer Tender Architectural Drawings. Tender Conditions Prevail.
5	VOLUME 4	-	2.16.2.1 - Operating conditions	The Engine Alternator are to be installed at Aarey Depot/ Mumbai (Maharashtra) and shall be capable of working at any ambient temperature between 0oC and 50oC and relative humidity up to 100%.	·	Testing for all rating DG testing shall be in the scope of the DEM- R Contractor as stipulated in Volume-4 Employer Requirement, Technical Specification, Section VIB-Electrical-LT, Clause- 2.16.2.12 Testing & Commissioning and in compliance to Volume-3 - Employer's Requirement, General Specification, Clause-9. Tender Conditions Prevail.
6				The DG et shall be suitable for continuous operation inside the acoustic enclosure under all ambient conditions up to 50 Deg c ambient temp with out any adverse effect of its performance.		Testing for all rating DG testing shall be in the scope of the DEM- R Contractor as stipulated in Volume-4 Employer Requirement, Technical Specification, Section VIB-Electrical-LT, Clause- 2.16.2.12 Testing & Commissioning and in compliance to Volume-3 - Employer's Requirement, General Specification, Clause-9. Tender Conditions Prevail.
7				As per the CPCB guidelines the Chimney / Stack height has to be higher than the building height, therefore suitable Lightning protection system on the Exhaust pipe, duly approved by MMRC has to be provided.	· · · ·	ASS-Room Equipment layout, Trench Layout with sizing, etc. is part of detailed design. Please refer Tender Architectural Drawings. Tender Conditions Prevail.

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PREBID QUERIES						
Sr. No.	VOL	Page No.	Clause No.	Tender Description	Query	Response
8	VOLUME 4	Page 133 of 151	Constructional	1) STRUCTURE: Enclosure shall be made in modular design and can be dismantled/ assembled at site. It shall be made out of heavy gauge mild stee sections and reinforced with fabricated super structure, the supporting frame work shall be of 2.0 mm thickness. Outside covers & doors shall be fabricated in 2.0 mm thick CRCA sheet.	l design. We can not dismentled the acoustic enclosue and acoustic enclosure shall be fabricated out of 1.6mm thick CRCA sheet as per our standard of	in line with the Volume-3, Appendix-28, Vendor
9	VOLUME 4	-	2.16.2.5.g. Safety systems	i. Governor The performance of the governor under load conditions shall be to Class A1 in accordance with BS 5514: Part 4 (ISO 3046).	Governor class G3 and G2 are as per ISO 8528 and A1 as per BS 8528. G2 and A1 characteristics re same. This will be standard as per engine manufacturing design.	
10	VOLUME 4	-	2.16.2.6.b. Excitation system	i. The main exciter shall receive power from a permanent magnet generator through separate auxiliary windings on stator via Automatic Voltage regulator.		For all the product particulars compliance shall be in line with the Volume-3, Appendix-28, Vendor Approval Process and as per Volume-6, Preamble, clause a.1.4.6 Serial no 6. for obtaining No Objection from the Engineer. Tender conditions prevail.
11	VOLUME 4	-		iii. The excitation system and engine governor should be such that the alternator is capable of starting up induction motors having a starting kVA or not less than 1.8 times the alternator rated kVA.	f	For all the product particulars compliance shall be in line with the Volume-3, Appendix-28, Vendor Approval Process and as per Volume-6, Preamble, clause a.1.4.6 Serial no 6. for obtaining No Objection from the Engineer. Tender conditions prevail.
12	VOLUME 4	Page 144 of 151	AMF Panel	ENCLOSURE IP 54 (IEC)	Being Indoor panel it will be IP 42	Tender Conditions Prevail.
13	VOLUME 6		E.01-M V SWITCHGEAR	General	In specification nothins is mentioned about Protectiosn for mCCB we will consider as per BOQ.	MCCB's Protection compliance shall be as per Volume-4; Technical Specification, Clause 2.1.3 - MCCBs. Tender conditions prevail.
14	VOLUME 4		RELIABILITY, MAINTENANCE,	Equipment shall be designed and manufactured in modular manner to facilitate the fault diagnosis and replacement of each modular part. Each module shall be capable of being interchanged with other modules of the same type withou affecting the rest of modules in place	Please confirm whether do we need to consider Modular in construction or	Tender Conditions Prevail.

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	PREBID QUERIES				
Sr. No.	VOL	Page No.	Clause No.	Tender Description	Query
15	VOLUME 4	Page 115 of 151	COMPONENTS OF UPS SYSTEM	Twin Battery banks supplying 100% rated load suitable for half hour back up with each UPS i.e. two banks of 2 hours backup for a set of UPS over its full service life complete with heavy duty, high discharge valve regulated lead-acid type batteries, battery racks and interconnecting cables shall be provided.	BOQ.
16	Volume-6 - Part-c : C.03 - OCC	181 of 273	2.3 - Pump head	Pump head specified on the Drawings and / or Equipment Schedules are for guidance and information only and are calculated based on assumed equipment pressure drops. The exact pump head based on the pipe run and the offered equipment shall be carefully checked and re-calculated for each pump before ordering the equipment. Calculation shall be submitted for approval. No modification to the piping system shall be allowed without prior approval. Any additional cost for the modification of the system (pumps, motors, switchgears, cables, panel boards, switchboards, etc.) from that indicated in BOQ, necessary to Meet the specified duties, special conditions and the offered equipment shall be provided at no extra cost to the Employer.	capacities and static pressure given in the BOQ. We confirm that the all calculations regarding static pressure shall be done during engineering st before ordering the equipment. However any additional cost for modification of the system (pumps, motors, switchgears, cables, pa boards, switchboards, etc.) from that indicated in BOQ, necessary to m the specified duties, special conditions and the offered equipment shall compensated accordingly.
17	General				 TYPE OF CONTRACT It is clarified that: "It is a BOQ contract based on Preliminiary design (i.e.Part Design a Build Contract). DDC(s)will do detail Designing. Tender conditions Prevail." We would like to clarify that post award of the contract if DDC design has variation in specifications / design; For e.g. – during tendering capacity Chiller mentioned in BOQ is 300 T and price for same has been conside in bid; and during the time DDC design it is required 350 T; how will difference in cost due to change in specification be treated as variation BOQ compensated in our contract Price. Another example can be if ca capacity during tender is considered as 300 sq mm and cost for 300 sqmm considered but during detailed design it changes to 400 sq mm for wh price is not considered then how variation in Price will be considered. Ple Clarify.

	Response				
is per	Please refer BOQ description.				
	Tender BOQ Conditions prevail.				
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