

MUMBAI METRO RAIL CORPORATION LIMITED
Mumbai Metro Line-3 Project

Response to Bidders Queries (Set-3) for IFB No. MM3-CBS-TVE (Phase2) (P2L1 & P2L2)

Design, Manufacture, Supply, Installation, Testing and Commissioning of Tunnel Ventilation System & Environmental Control System - Package: 15 (Phase-2)

S. No.	PART & SECTION REFERENCE	CLAUSE REFERENCE	PAGE NO	CLAUSE DESCRIPTION	BIDDERS QUERY	MMRC RESPONSE/CLARIFICATION	ADDENDUM (Y/N)
1	Part 2 Section VI-B1 – Technical Specifications - ECS	Clause:- 6.2.15	116 of 145	Noise criteria - Sound attenuator for emergency fans like SEF & SPF	Please confirm Sound attenuators are to be considered In Station emergency fans like SEFs and SPFs Both the fans having standby arrangement as per Tender Schematic. Therefore it shall be having huge cost impact to consider the attenuators. Moreover , in any of Indian metros, attenuators are not considered in SEF and SPF fans.	Bid Conditions Prevail. (Please refer Table of Clause 6.2.15.1.h of Part 2 Section VI - B1) Sound attenuation is required.	N
2	Part 2 Section VI-B1 – Technical Specifications - ECS	Clause:- 6.2.15.3.6	121 of 145	All ducts works immediately upstream and downstream of all ECS ventilator fans and AHUs shall be internally acoustic lined up to 5 meters length.	Please confirm Internal acoustic is to be considered along with duct attenuators.	Bid Conditions Prevail.	N
3	Addendum-2 Response to Bidders queries (set-1)	Sr. no.- 203	Page 19 of 31	ECS and TVS External louvers to be provided by others, please confirm	Please re-confirm ECS and TVS shaft louvers needs to be considered in this contract.	Bid Conditions Prevail. External shaft louvers not in TVE contractor's scope.	N
4	Part-3 Tunnel Ventilation Drawings	General		All OTEFs and UPSAFs will be running at reduced speed.	Please clarify the criteria of reduced speed, reduced speed shall be 70%, 60%, 50% ... of actual speed? Please confirm whether this criteria shall be applicable to UPSAFs as well. This will impact the fans sizes and associated electrical cabling.	Bid Conditions prevail. Confirmed	N
5	Part-4 Tunnel Ventilation Drawings	General		Ventilation Strategy In Congestion Mode	During congestion in tunnel, single TVF is supplying the air via nozzle in both the tunnels as per the drawing. During detailed simulation, both the TVF fans may have to be operated in supply mode to mitigate the thermal criteria if not achieved with single fan. Please confirm.	Bid Conditions Prevail. Double bound congestion may require total two TV Fans to be operated per station. This is subject to verification after SES simulation by design and build Phase 1 TVE contract.	N
6	Part-4 Tunnel Ventilation Drawings	General		Ventilation Strategy In Congestion Mode	During congestion in tunnel, single TVF is extracting the air via TVFD from both the congested tunnels only, as per the drawing. Will it possible to extract the air flow from both the congested tunnel without considering the airflow extraction from the station trackway side.	Bid conditions prevail. Please refer response of query at S.No. 5	N
7	Part-4 Tunnel Ventilation Drawings	General		Ventilation Strategy In Overrun and Portal	Please confirm the set of reliefs dampers are to be considered for the overrun tunnel between Cuffe parade and Dead end portion. As it will impact the number of dampers and associated pneumatic piping.	Bid conditions prevail. Should consider two relief dampers in the dead end tunnel	N
8	Part-4 Drawings	General		ECS provision for shops area at cover level of CST station	The approx. 2500 sq. mtr area has been added for shops at cover level of CST station. Please confirm that same needs to be considered in chiller sizing and clarify the ECS/ Smoke extraction system needs to be considered for this area. Please confirm warm-shell provision needs to be considered for the same.	Bid Conditions prevail. The shops shown at top of box level are existing and not under TVE scope.	N
9	Part-4 Drawings	General		ECS provision for Retail and Parking area between grid C10 to 23 at Cuffe Parade station.	Please confirm that Retail and Parking area needs to be considered in chiller sizing and clarify the ECS/ Smoke extraction system needs to be considered for this area. Please confirm warm-shell provision needs to be considered for the same.	Bid Conditions Prevail. Please refer TVE P2L2 Addendum No. 2 - Serial No. 2 & 6	N
10	Part-4 Drawings	General		ECS provision for Retail area at concourse level between grid C3 to 06 at Cuffe Parade station.	Please confirm that Retail area at concourse level, needs to be considered in chiller sizing and clarify the ECS/ Smoke extraction system needs to be considered for this area. Please confirm warm-shell provision needs to be considered for the same.	Please refer response of query at Serial No.9	N
11	Part-4 Drawings	UGC02-ARP-SCS-3E0C1-C01-A UGC02-ARP-SCS-3E0C1-C02-A UGC02-ARP-SCS-3E0C1-C03-A UGC02-ARP-SCS-3E0C1-C04-A		Drawings provided doesnot contain room names.	Bidder requests to provide drawings with named rooms to carry out heat load and subsequent selection of equipments.	Bid conditions prevail. Please refer room schedule shown at bottom of drawings. Also refer Clause No. 6.2.1.3 (i) sub clause. III of Part 2 Section VI-B1 for ECS provisions.	N
12	Part-4 Drawings	UGC02-ARP-SCS-3E0C1-C01-A		Future subway for CST station	As per the new drawings provided in Addendum 2 Future subways are only outlined. Kindly confirm if ECS provision for the same is included in this contract.	Bid conditions prevail. No Future subway observed in CST.	N
13	Part-4 Drawings	UGC02-ARP-SGR-05001-001-B_mezzanine levels		ECS provision for area around IM38	Kindly confirm if any ECS provision to be provided for area around IM38 at intermediate mezzanine level.	Bid Condition Prevails This area is to be pressurised as part of stair pressurisation system.	N
14	Part-4 Drawings	UGC01-ARP-SCP-1021-001-A-RD0		Parking level of SCP	Kindly confirm if any ECS provision to be provided for rooms at parking level of SCP.	Bid conditions prevail. Refer Sr. No. 2 & 6 of P2L2 Addendum No. 2	N
15	Part-4 Drawings	UGC01-ARP-SCP-1031-001-A-RD0		Area marked under grid C03 to 06.	Kindly confirm that No ECS provision to be provided for area marked as "NOT IN TVE CONTRACTOR SCOPE".	Bid conditions prevail. Confirmed	N



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16	Part-4 Drawings	UGC01-ARP-SCP-1031-001-A-R00 UGC01-ARP-SCP-1041-001-A-R00		Drawings provided doesnot contain room names.	Bidder requests to provide drawings with named rooms to carry out heat load and subsequent selection of equipments.	Bid conditions prevail. The room names are as per room schedule shown at bottom of drawing no. UGC01-ARP-SCP-1041-001-A-R00. For drawing no. UGC01-ARP-SCP-1031-001-A-R00, bidder may collect the PDF and CAD version of drawing showing the room numbers and room schedule.	N
17	Part-4 Drawings	UGC01-ARP-SHC-4031-001-H-R01		Station entrances are sealed in the concourse level plan.	Kindly clarify the existence of D wall at grid 20-03 and 23-24 which is separating the station box from Station entrances.	Bid conditions prevail. Please refer the legend shown at bottom of drawing for the type of walls.	N
18	Part-4 Drawings	UGC01-ARP-SHC-4031-001-H-R01		Drawings provided doesnot contain room names.	Bidder requests to provide drawings with named rooms to carry out heat load and subsequent selection of equipments.	Bid conditions prevail. Please refer room schedule shown at bottom of drawings.	N
19	Part-4 Drawings	UGC02-ARP-SSG-04001-001-B		TVF room at LHS platform	As the room size provided for TVF fan's at LHS of the platform is very very less, Bidder requests to provide same fan room size as at the RHS of the station.	Bid conditions prevail. This aspect to be addressed during design stage.	N
20	Part-4 Drawings	UGC02-ARP-SSG-04001-001-B		Nozzle for Girgaon Station	As the nozzle considered for the station is different from the schematic in the tender drawing GCC-TVE-P00-0001-013-A0, Bidder requests to provide similar drawing for this type of nozzle also.	Bid conditions prevail. Being design & build contract, the contractor shall develop nozzle detail drawing.	N
21	Part-4 Drawings	UGC02-ARP-SSG-04001-001-B		TVF delivery, ASS deliver, TVF equipment deliver and Service corridor area at platform level.	Kindly clarify any ECS provision for the listed areas?	Bid conditions prevail. These areas shall be enclosed and considered as BOH corridor and accordingly ECS to be provided.	N

