

**CHENNAI METRO RAIL PROJECT PHASE-I**

**CONTRACT, UAA 10 - DESIGN AND CONSTRUCTION OF UNDERGROUND COMMUTER AMENITIES CENTRE AT SHENOY NAGAR METRO STATION (SSN) INCLUDING ALL TEMPORARY AND PERMANENT WORKS LIKE SHEET PILING, SOIL ANCHORS, RCC RETAINING WALLS/DIAPHRAGM WALL, BASE SLAB, FLAT SLAB BASEMENT SLAB & ROOF, ENTRY/EXIT STRUCTURES, ARCHITECTURAL FINISHES, SUMP AND PUMPS, VENTILATION SHAFTS, ELECTRICAL MECHANICAL WORKS, PLUMBING & FIRE FIGHTING, VENTILATION AIR CONDITIONING AND LANDSCAPING**

**Pre-Bid Queries and Replies**

SL. NO.	PAGE NO.	CLAUSE, SECTION & VOL NO.	DESCRIPTION	AS PER BID DOCUMENT	PRE-BID QUERIES	CLARIFICATION FROM CMRL	Addendum Yes / No
1	242	CL.B2 - A) (11)	CONNECTION TO EXISTING SSN STATION	Making 4 Nos connecting tube to existing SSN station at concourse level by cutting the Diaphragm walls and strengthening the opening & finishing.	Size of the opening to be created not mentioned in the drawing. Only nos given. Confirm the same.	The opening size can be 3.5m X 2.5m.	YES
2			EXISTING STATION AS -BUILT DRAWINGS		Provide existing station as built drawings.	Station plan is already provided in the tender. Detail drawing if required, would be issued to the successful bidder.	NO
3	1172	Drawing No: CMRL-SSN-AR-1800002-A	COMMUTER AMENITIES CENTER	Horizontal dimensions between outer wall in East side given as 3464.3mm	This dimension appears to be wrong. Kindly provide the length and width of the Commuter amenities centre. Provide soft copy of the drawings to extract the dimensions	PDF drawings with dimensions shall be issued and CAD drawings will be issued to the successful bidder. Please refer Addendum 1.	YES
4	498	SECTION - 4 VOLUME -4	OUTLINE DESIGN SPECIFICATIONS - ARCHITECTURAL WORKS	Office rooms, VAC room, control room, Janitor room, admin room, service room, toilet area finishes, flooring requirements given	Area or size of the room not mentioned either in drawing or document. Specify the same.	Bidder shall assess and propose the area or size of the room in order to increase the footfall during design stage with subject to notice of no objection from the Employer.	NO
5	445	CL.2.4.2 (3) VOLUME -4	CONCRETE PERMEABILITY TEST	The concrete shall be tested for impermeability according to DIN 1048 and ability to resist chloride ion penetration according to ASTM C- 1202. Water permeability shall not be more than 10 millimeters and RCPT value shall not exceed 600 coulombs.	In General for Metro projects RCPT value will be 1000 coulombs. Kindly confirm	Agreed. Please refer Addendum 1.	YES
6	446	CL.2.5.3 (a) VOLUME -4	REINFORCEMENT	Only thermo-mechanically treated reinforcement bars of grade Fe415 / Fe500 with minimum total elongation of 14.5% conforming to IS 1786 shall be adopted	As per IS 1786 minimum percentage of elongation FE 500 will be 12% instead of 14.5% as specified in document. Kindly confirm	TMT bars of Grade Fe 500D shall be issued. Please refer Addendum 1.	YES
7	450	CL.2.6.3.2 Notes VOLUME -4	WRAPPING MESH	Wrapping mesh is required in cover zone for fire protection requirements	Structures will be designed for minimum Fire resistance period specified. Kindly confirm the requirement of wrapping mesh.	Yes. The IS 456, Clause 21.3.1. specifies that additional measures such as sacrificial steel in tensile zone should be provided in case nominal cover exceeds 40mm for beams and 35 mm for slabs.	NO
8	455	2.7.3.14	Surcharge	Building surcharge loads shall be adopted in the design as follows: SSN park Restoration developments are planned above .For existing buildings and other existing structures occupying areas around the excavation, detailed assessments based on building and foundation type, and loading are to be carried out to determine the applied loads and other impacts of such building loads on the proposed structures, For future buildings or planned infrastructure, the appropriate authorities and Employer's Representatives shall be consulted for details.	Bidder is considering the surcharge load as 20kPa for design of retaining wall . Kindly confirm	For Retaining walls, vehicular surcharge load of 20kpa may be considered.  Since, the Park is going to be restored above, vehicular surcharge need not be considered on roof slab.  However, Filling, landscaping loads(Dead load) and public / commuter loads (live load) are to be considered on the roof slab. Refer Addendum -1	YES

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9	465	3.1.3	EBS Protection	The Contractor shall minimize the induced loads, total deflections and differential deflections (angular distortion) and vibrations of the ground surface and EBS above or below the ground surface that may result from the Works. The impacts of construction shall be so limited as to not significantly affect the operation of the EBS, road or cause undue distress to the public.	We request to provide any drawings of existing underground utilities, HT Lines (if any) at the Shenoy Nagar Metro station Amenity & adjacent area.	Bidder to Assess	NO
10	475	3.4.2.3	Minimizing Ground Movements	The following support methods are not permitted: a. Use of ground anchors beneath adjacent buildings. b. Non-recoverable timber ground support	We understood that ground anchors beneath adjacent building are not permitted. Please provide Adjacent building details and its distance from SSN park.	Bidder to Assess	NO
11	1191	2.1	Soil Conditions	There are nine boreholes at or near this station. Borings C2-F11, C2-DH-7 and C2-F12 are data provided during tendering. Borings AF-1001 to 1005 and 1005A are additional boreholes drilled in April to June 2011. Figure 2-3 shows the idealized soil profile for Shenoy Nagar Station based on these boreholes. Additional verification boreholes were drilled in July 2011 to verify and confirm the SPT N values obtained by various parties. The factual report covers borehole logs AF-5001 to 5005. The borehole logs of C2-F11, C2- DH-7 and C2-F12 are provided in the Volume 8 of Contract documents.	Kindly provide soil investigation report.	Geotechnical interpretive report required for design of structures is already given. Any other information required is to be assessed by the Bidder.	NO
12	476	3.4.5.2	Protection of St. Andrew's Church during underground construction	The contractor shall provide vibration recording devices on the Church's structure for monitoring vibration from the Metro construction works as referred to in Clause 3.3.1. (5).	It is found that St Andrew church is 4.5km away from the SSN Amenity construction site. Kindly confirm whether vibration monitoring can be avoided for this church structure since it is far away from the present scope.	Agreed. Please refer Addendum 1.	YES
13	513 of 1220	Clause 5.4.3.1. A). 5) - Section-5 - Volume 4	Design Criteria	Voltage Drop (Final Circuit): 5%	Voltage drop shall be restricted to 6% from output of the transformer to final circuit as per NBC 2016 Part-8 Section-2, clause 5.6.a). Kindly Confirm.	Not agreed. Tender condition prevails.	NO
14	514 of 1220	Clause 5.4.3.2. - Section-5 - Volume 4	Low voltage power distribution system	The low voltage power distribution cables up to 35 sq. mm shall made of copper, above 35 sq. mm shall made of aluminum/ copper	The referred clauses in this tender contracting each other.  We propose the low voltage power distribution cables up to 16 sq. mm shall made of copper, above 16 sq. mm shall made of aluminum as per NBC 2016 Part-8 Section	Not agreed. Tender condition prevails.	NO
	795 of 1220	Clause 2.3.3. - Section-5 - Volume 4	Technical and Installation Requirements	The conductors shall be of stranded, high conductivity annealed copper wire			
15		General	Lifts and Escalator	Supply and installation of ,Lifts and Escalator are not in contractor's scope	Since co-ordination is required with Civil and other disciplines, kindly shre the details of Lifts and Escalators	The number and location of lift and escalators have already been indicated in the tender drawings. During detailed design stage, other relevant details shall be shared.	YES

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16	244 of 1220	Clause B2.A).31, Section-B & Volume - 3	CCTV Camera Location	31) Design Supply and installation of CCTV system and Public address system in strategic locations as per requirement at strategic locations in Basement-1 & Basement-2	We are proposing Camera Location only at basement Ramp Entries/Exits . Kindly confirm	CCTV cameras at to be provided at station entry exit point , at major junction of corridors at basement-2 (passenger amenities area) and at all locations to cover the entire basement-1 (car parking).	YES
17	-	-	CCTV system and Public address system Specification and Make List	-	Kindly provide Specification and Preferred make lists for CCTV system and Public address system	Designer to suggest latest systems and specifications. No approved vendor list are available with CMRL.	NO
18	-	-	Telecommunication system	-	Telecommunication system scope is completely excluded in tender document. However, in our scope we are considering only containment (Hume pipe) connectivity upto basement periphery. The service provider have to use this containment for their work. Kindly confirm	Agreed. Only Embeded conduits and sockets to be provided for operational rooms not for retail shops.	NO
19	-	-	Battery limit for CCTV system, Public address system, BMS System and Telecommunication system	-	Kindly provide Battery limit for CCTV system, Public address system and BMS System	CCTV System, PA system and BMS system should cover the basement-1 and basement-2 but excluding inside individual retail shops	No
20	240 of 1220	Section B & Vol 3	Shops & Food Court	2nd basement will have passenger amenities like shops and food courts etc.	Please clarify the operation hours considered for same.	8 AM to 10 PM can be considered.	YES
21	585 of 1220	Section 1.16 & Scope of Works	Air conditioning Scope for Shops & Food Court	Air-conditioning system for entire property development rooms / area, corridor /public area, any other air conditioning rooms by using Variable refrigerant flow(VRF) system with Air handling units and VRF indoor units including associated refrigerant pipe works.	Request you to confirm the name of area to be air-conditioned including the battery limit of air conditioning system.	The approximate total area of Air Conditioning is 21,450 sq.m. However, the bidder shall assess and propose number of rooms / areas, room / area size and application of rooms / areas in order to increase the footfall during design stage with subject to notice of no objection from the Employer.	NO
22	599 of 1220	Section 2.3.1	Emergency Mode	100% working and 100% standby smoke extraction fan shall be considered for the smoke extraction area/rooms based on the smoke zone layout.	As per NBC 2016, 6 ACPH (Normal mode) & 12 ACPH (Fire Mode) fan required to be provided for basement smoke extraction , request you to confirm the requirement. There is no standby fan requirement in NBC 2016 , request you to confirm the standby fan requirement.	Smoke extraction fan shall be designed based on the design fire load as per the smoke zoning layout and No. of air changes / hour method. Finally, the fan selection will be done based on the result of higher capacity. Please consider the 100% standby fan requirement as per tender since the property development areas are located in the 2nd basement level.	NO
23	597 of 1220	Section 2 & Vol 4	Duct Construction	1)Duct Construction shall be as per DW144 standard. 2) Duct shall be designed based on 1500 pa pressure class.	Requested to confirm that we can follow SMACNA standard for duct construction	No. Please follow DW 144 only for duct construction.	NO
24	538 of 1220	Clause 5.5.3.1, Section 5 and Volume 4	Drainage: General Requirements	The sewage from the tank is connected to the existing Municipal sewage network or as per the CMWSSB requirements, through a series of station sewage manholes.	Kindly provide the invert level of existing municipal sewer manhole and layout for location of existing municipal sewer manhole.	Bidder to assess.	NO
25	544 of 1220	Clause 5.5.3.2.5, Section 5 and Volume 4	Rain Water Drainage	The overflow from the rain water harvesting pits shall be connected to the existing storm water manholes.	Kindly provide the invert level of existing municipal storm drain manhole and layout for location of existing municipal storm drain manhole.	Bidder to assess.	NO

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26	536 of 1220	Clause 5.5.2.4, Section 5 and Volume 4	Water supply for fire fighting	To avoid stagnation of water in the fire water storage tank, water from the municipal main for the domestic water requirement shall be passed through the fire water storage tank and then stored in the municipal water storage water tank.	Kindly confirm the source of domestic water supply and treatment ( whether Municipal water or bore well water). If the source is municipal supply means, Kindly share the layout for existing municipal mains .If the source is bore well means, kindly share the location of bore well.	Separate bore wells are to be drilled for the proposed development as per scope of work.	NO
	243 of 1220	Volume 3	EMPLOYER'S REQUIREMENTS FUNCTIONAL	Drilling and development of 2 Nos bore Wells one on east and west sides of the park along with submergible pumps and pipes up to storage tanks.			
27	-	-	General	-	Kindly share the preliminary fire NOC for the proposed basements.	Preliminary fire NOC has not be taken by CMRL. It is the Contractor's responsibility	NO
28	-	-	General	-	Kindly confirm whether separate sump & pump sets/room is required as per tender document? We presume that existing fire-fighting sump & pumps for metro station will be utilized for serving these basements too. If so, kindly share the existing fire-fighting layouts.	Separate sump and pump sets are to be provided. Existing SSN metro station facilities cannot be utilized.	NO
29	-	-	General	-	Kindly provide the list of approved makes (Preferred Vendor list) for fire fighting & fire alarm system.	Vendor list included. Refer Addendum 1.	YES
30	240 of 1220	VOLUME - 3 SECTION B - Employer's Requirements - Functional	Scope of work- Fire Sprinkler	Plumbing for fire sprinkler system has be done for both the basement except that for the non-ceiling areas, it shall be extended by the individual shop keepers	The referred clauses in this tender contracting each other. Kindly clarify the following points: (a) Fire sprinkler system will be provided in public areas and basement parking areas. (b) For retail areas, only tap-off point will be provided and all further distribution inside retail area will be by retailer scope. (c) For retail areas, single layer of sprinkler (above false ceiling) & tap-off point for future pendant sprinklers (for below false ceiling areas) to be provided?	a) Confirmed. Sprinkler system shall be designed and provided both Basement. b) Agreed c) Not accepted	NO
	241 of 1220			Fire sprinkler system to be designed and provided in Basement 1 & Basement 2			
31	555 of 1220	VOLUME - 4 ,SECTION 5 E & M WORKS 5.7.1.2 E Fire fighting system Responsibilities	Panel suppression	Aerosol fire suppression total flooding system and or Panel Flooding System	As per NBC 2016 - Part 4. Clause 3.4.6.3, only Main MV distribution panel & Lift Panel to be protected with CO2 fire suppression system. Hence total flooding or aerosol fire suppression is not recommended. Kindly confirm.	1. For Main LT panel and sub main LT panel lift panel & DG AMF panel shall be protected by Aerosol or inert gas panel flooding system. 2. For UPS room, total flooding system by Aerosol or inert gas has to be adopted.	YES
32	556 of 1220	VOLUME - 4 ,SECTION 5 E & M WORKS 5.7.2 Portable fire extinguishers	Portable fire-extinguishers	The Contractor shall supply and install fire extinguishers in all stations in compliance with relevant BS EN Codes and Regulations	Being a project in India, fire extinguishers will be provided with ISI mark and installed as per IS 2190: 2010 as mentioned in NBC 2016 Part 4.	Agreed. Refer Addendum 1.	YES
33					We presume that existing MEP infrastructure facilities in Shenoy Nagar metro station is already augmented for these proposed basements. Hence please confirm tapping can be taken from existing infrastructure facilities to serve these basement. If so, kindly share the same including existing layouts, sections/details & plans.	Not agreed. Existing SSN metro station facilities cannot be utilized. Separate provisions are to be made for the proposed passenger amenities centre.	NO

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34	1173 of 1220	Dwg no: CMRL-SSN-AR-1800003-A sht 3 of 9	LPG storage and distribution system	Drawings shows food courts in the basement level 2	We presume that there is no requirement of Centralized LPG Storage and distribution system for kitchen in the food courts at Basement-2 and also respective kitchen vendor shall have their own commercial cylinders for kitchen purpose. Kindly confirm.	Bidder to suggest as per Local regulations	NO
35	241 of 1220	Volume 3	DG set	Supply & installation of DG set & Transformer are not in the scope of the works	We understand that Supply, installation, testing & commissioning of DG set, AMF / Synch. Panel, Power & control cables from DG set to AMF/ Synch. Panel are excluded from contractor scope of works. Kindly confirm	Supply and installation of DG sets and transformer are in the scope of works. Refer Addendum 1.	YES
36	241 of 1220	Volume 3	Transformer & HT Panel	Supply & installation of DG set & Transformer are not in the scope of the works	We understand that Supply, installation, testing & commissioning of HT Panel, Transformer & related control cables are excluded from contractor scope of works. Kindly confirm	Supply and installation of HT panel and transformer are in the scope of works. Refer Addendum 1.	YES
37		General	Location of DG and Transformers		Kindly furnish the location of Transformer & DG set / AMF / Synchronizing panel (which is not in this scope of contractor) to decide our cable lengths to main LT Panel (which is part of contractor scope)	Location of DG set and transformers are to be decided by the designer/ architect, as per design.	No
38	516 of 1220	Clause 5.4.3.7 , Section 5 Volume 4	Automatic Transfer Switch	Change over via Automatic Transfer switch between Transformer & DG set	Considering Single point failure of Automatic Transfer Switch (ATS), we propose PLC based Automatic Changeover system between Transformer & DG set with manual provision for PLC over-ride / failure. Kindly confirm.	Not agreed. Tender conditions prevails.	No
39		General	Battery limit for Shops & Food Court		Kindly provide CCTV system, Public address system and BMS System battery limit for Shops & Food Court	CCTV System, PA system and BMS system should cover the basement-1 and basement-2 but excluding inside individual retail shops	No
40	365 of 1220	Volume 3	Electrical System Approved Make list	Approved Make List	Kindly furnish the approved makes for following items 1) Internal & external Light Fixtures 2) Modular type Switches / Power Sockets 3) PVC & Steel Conduits and accessories 4) Distribution boards 5) UPS system & Batteries 6) Ceiling Fans 7) Capacitor Banks	Agreed. Refer addendum-1	YES
41	General		Drawings		Kindly furnish the AUTO CAD drawings for workings	Agreed	NO
42	General		Shifting of Services		We understand that re-routing and shifting of existing service lines present at the proposed development area shall be part of client scope. Kindly confirm.	Not agreed. Tender conditions prevails.	NO
43	516 of 1220	5.4.3.4 , section 5, Volume 4	Short circuit rating	The switchboard shall have a rated short time withstand current 50KA/sec	The fault current rating of ACB / MCCB shall be considered based on the short circuit calculations. Kindly confirm.	Main LT panel shall have a rated short time withstand current 50KA/sec. Downstream will be as per short circuit calculation	No
44	General		Capacitor Banks		Centralized Capacitor banks connected to Main LT Panel is proposed. Kindly confirm.	Bidder to design	No

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45	243 of 1220	B2, Section B, Volume 3	Power supply to shops	Electrical supply provision for individual shop areas to be provided up to the required length in each side..	1) Single point three phase 415V bulk power supply shall be provided for each shops / food courts / office spaces at basement 2. Further internal distribution including Light fixtures, Power sockets, conduit & wiring shall be part of tenant scope of works. Kindly confirm 2) Kindly confirm the requirement of dual source energy meter for individual shops / Food courts / office spaces	1) Agreed. 2) Not required.	No
46	NA	General query	Fire zoning / Compartmentation	NA	Kindly share the fire compartment / zoning drawings for car park ventilation design in Basement 1.	Car parking fire compartment / zoning will be based on civil architectural drawings in the detailed design. Car Parking Ventilation can be designed without standby fans	YES
47	NA	General query	Air-conditioning battery limits	NA	Kindly confirm whether the HVAC equipment's along with low side items for air-conditioning Basement 2 is in contractor scope or only provisions to be made by the contractor.	HVAC equipment's along with low side items for air-conditioning of Basement 2 is in contractor scope.	No
48	NA	General query	HVAC scope in shops and F&B areas	NA	Kindly confirm whether the Food court and shops at Basement 2, are with fit-out scope or not?	Please note that the food court and shops are provided in the tender for preliminary reference only. However, the bidder shall assess and propose number of rooms / areas, room / area size and application of rooms / areas in order to increase the footfall during design stage with subject to notice of no objection from the Employer. HVAC equipment's along with low side items for air-conditioning basement 2 is in contractor scope.	No
49	NA	General query	Energy consumption measurement in tenant areas	NA	Kindly confirm whether separate standalone HVAC units to be proposed for each shop & each food court area so that we can measure the energy consumption of each tenant separately.	Bidder shall assess and propose the design in order to measure the energy consumption in all areas / rooms during design stage with subject to notice of no objection from the Employer.	NO
50	600	Under Section 2. DESIGN AND PERFORMANCE / FUNCTIONAL REQUIREMENTS: 2.3.9 - Energy Efficiency Measures / Analysis	IGBC MRTS Platinum Rating	Contractor shall propose the energy efficiency measures / analysis and to get the IGBC platinum rating Criteria considering the latest technology as per IGBC (MRTS)/ ASHRAE 90.1-2010/ ECBC-2007 etc.,	The tender documents highlights that the proposed Commuter Amenities centre should get IGBC MRTS Platinum Rating system. Also we understand that the existing Shenoy Nagar station is already IGBC MRTS Platinum rated by Oct-2017. However as confirmed by IGBC, the proposed commuter amenities centre alone cannot be registered/certified under MRTS rating system (Metro Rating). Please clarify, if the contractor has to just design the proposed commuter amenities inline with the IGBC MRTS rating (Credits applicable for Commuter Amenities centre). Kindly confirm.	Yes, the contractor has to design the proposed commuter amenities centre inline with the IGBC MRTS rating and also construct using such material.	YES
<b>Architecture:</b>							
51		Scope of works	Architectural Design		Please confirm if architectural design is in our scope or not.	Yes. The Tender drawings are only conceptual plans. The details are to be further developed by the Architect / Designer	YES
52			Area calculations		Request you to provide area calculations.	Agreed . Please refer Addendum-1 (For dimensional drawing)	YES

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53			BOQ of Architectural items		Request you to provide existing BOQ details if any for architectural and other items.	Not agreed. It is a Lumpsum contract.	NO
54			Survey Drawings		Request you to provide Site/land/survey drawings.	Street Level Plan already given in Tender Drawings.	NO
<b>Services:</b>							
55			BMS/SCADA		As per our understanding, BMS/Scada is limited to ECS system. For other system only, provision to be kept. Please confirm.	Not agreed. BMS/SCADA system for all E&M works, VAC, fire fighting, fire alarm, CCTV, PAVA and Car Parking Ventilation.	No
56			Transformer / DG / HT switch gear		As per our understanding, Transformer / DG / HT switch gear and associated accessories are not part of the contract. Please confirm.	DG, Transformer and HT panels are part of scope. Refer addendum-1	Yes
57			CCTV, PA, Signalling & Telecommunication		As per our understanding, CCTV, PA, Signalling & Telecommunication not part of contract and only interface to be done. Please confirm.	CCTV, PAVA is part of scope. Telecom provision means Embedded conduits and sockets to be provided for operational rooms and not for retail shops. Signalling is not in scope.	No
58			Existing sewer system		Details of existing sewer system of CMDA may please be given.	Bidder to assess.	No
<b>Structure:</b>							
59			Tender Drawings		Please refer to section enclosed with drawing, columns are not shown. We presume that adequate column will be given based on our detail planning.	Circular columns were shown in the Tender Drawings	No
60			Methodology of construction		Please confirm if you have any objection on using bottom up construction method for the project.	No objection. Please refer Addendum-1	YES
61			Availibility of Site		As station is existing, it will be ideal to carry out construction from both sides of station to balance the earth pressure on existing station. Please confirm if land is already acquired on both side of station to construct out project.	It is confirmed that the site is avialble for immediate handing over.	No
62			Fire Engine Vehicle load		Please confirm any Fire Engine Vehicle load to be considered for design.	Since, the Park is going to be restored above, vehicular surcharge need not be considered on roof slab except at main gates, where possibility of Fire tender loading may be considered.  However, Filling, landscaping loads(Dead load) and public / commuter loads (live load) are to be considered on the roof slab.	Yes
63			PT Slab		PT Slab is accepted or not – Please confirm.	Design option of PT slab is acceptable.	No
<b>MEP Queries:</b>							
64			Statutory approval		Statutory approval – List of approval to be confirmed and also Directly paying payment to the government to obtain the approval to be confirmed please.	All necessary statutory approval and liasing to be done by contractor. CMRL will facilitate and statutory payment will be paid by Employer	No
65			Location of Rooms		Location of Following rooms shall be given Electrical room , Pump rooms , UPS rooms , CCTV room & etc.	Bidder to design	No
66			Temporary power supply		It is cited that, Temporary power supply will be provided by employer, how much KW allowed to utilize - PI Confirm.	Not agreed. It is contractor responsibility to arrange temporary supply and water facilities.	No

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67			DLP period for MEP Works		DLP period for the MEP works shall be started from the date of commissioning of systems as per engineer in charge witness – Please confirm.	Not agreed. DLP will commence from the date of handover certificate.	No
68			FAT Expenses		Client / Consultant travelling expenses towards FAT shall be confirmed, Also how many officials from Client/ Consultant please confirm.	Refer Cl 2.7.11 and 2.7.12 of volume 4 Section 7 of Tender documents.	No
69			Factory Inspection		In case of factory inspection waived off by the Client/Consultant, Manufacture test certificate only produced to Client/ Consultant, please confirm.	Agreed as per acceptable format by Employer	No
70			Provision for Retail area		The following provision for the retail shop/ food court shall be confirmed- Fire fighting system, Fire alarm, CCTV, PA system, Tele phone & Data.	Agreed. only tap off point & main containment to be given Except CCTV for each retail shops.	No
71			Fire fighting system		Separate pump room / tapping from the existing fire line for the fire fighting system to be confirmed.	Separate provision for the fire fighting system is to be provided	No
72			Electrical provision to retail area		Electrical cable provision only given for retail shop, whether it shall be terminated with DB / Panel, please confirm.	Individual shop location terminal box to be provided with cable, circuit breaker with metering arrangement and shall be integrate with BMS.	No
73			No. of shops & connected electrical load		Retail shop total connected load details and number of shop shall be confirmed.	Bidder to design	No
74			HT Power		Power source for the transformer shall be confirmed from EB / from CMRL, How much distance from the HT tapping point shall be confirmed.	Source supply for HT from TNEB only. Contractor to liase with TNEB and get connection of point and location.	No
75			No. of DG sets		Number of DG sets & Capacity shall be confirmed to plan accordingly.	Bidder to design	No
76			Lift & Escalators		Number of Lift & Escalator also capacity shall be confirmed to plan accordingly.	Number of Lifts and Escalators including future provision are already shown in the drawing	Yes
77			Approved make		There is no approved make and detailed technical specification for the flowing systems – Fire alarm system, CCTV, PA system, Data & Networking, GAS flooding system, Signage works, please confirm.	Agreed. Refer addendum-1	Yes
78			LPG provision		Whether LPG leak detection to be considered for the Kitchen area, please confirm.	Bidder to design	No
79			UPS System		UPS system shown like only for public area, There is no provision for retail shop, please confirm.	Yes. Ref Cl. 5.4.3.9 of Volume 4, Outline Design Criteria, Secion -5, E&M Works of tender documents	No
80			High mast lighting in Park		Requirements of High mast lighting for the park area abort from street light shall be confirmed, If required no of High mast shall be confirmed.	High mast lighting for the park area is not considered.	No
81			Gas Flooding system		What type of Gas shall be used for gas flooding system, also for the panel flooding system.	Aerosol or inert gas	No
82			Lighting control		There is no detailed requirement given for the lighting control system.	Centralised Lighting control system not required.	No



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<b>Volume 4 Section 7 VAC Works</b>							
83		Scope of Works 1.1.4	Smoke extraction by smoke zoning layout		Please share the smoke zoning layout	Bidder shall assess and propose the smoke zoning layout during design stage with subject to notice of no objection from the Employer.	NO
84		1.1.6 a	Air-conditioning system for entire property development rooms / area, corridor / public area.		Please share the details of property development rooms/area, corridor/public area for calculating cooling load.	The approximate total area of Air Conditioning is 21,450 sq.m. However, the bidder shall assess and propose number of rooms / areas, room / area size and application of rooms / areas in order to increase the footfall during design stage with subject to notice of no objection from the Employer.	No
85		1.1.6 b	Ventilation system for toilets, pump room and any other ventilation rooms		Please share the details of pump room and other ventilation rooms for calculating ventilation requirement	Bidder shall assess and propose calculation of ventilation system during stage with subject to notice of no objection from the Employer.	NO
86		1.1.6 c	Pressurization of firemen and fire escape stairs		Please share the details of stairs for calculation of pressurisation system	8nos. Emergency Fire Escape Staircases already shown in the Tender drawings.	No
87		1.2.1	use of open mode system (Utilization of 100% outdoor/fresh air) for saving energy.		Please share details about open mode system when it should be operated.	Bidder shall make the Ventilation mode / free cooling mode in the SCADA mode table. Employer shall select the mode as and when necessary to reduce the operating cost of the VAC system.	No
		Design and Performance / Functional Requirements					
88		2.1	Design Criteria		Please provide details about basement structure and internal partition details for U value calculation	Bidder shall assess and propose during design stage with subject to notice of no objection from the Employer.	NO
89		2.1.4	Gas suppression		Please share details about Gas suppression system for exhaust calculation	1. For Main LT panel and sub main LT panel, lift panel & DG AMF panel shall be protected by Aerosol or inert gas panel flooding system. 2. For UPS room, total flooding system by Aerosol or inert gas has to be provided.	Yes
90		2.3.1	Air handling units located in the car parking level.		Please share the location details of AHU at Car parking level.	8nos.VAC Equipment rooms already shown in the Tender drawings and AHU shall be located within the VAC rooms.	No
91		2.3.1	Free Cooling mode / Ventilation Mode		Please share more details about Free cooling mode when it should be considered for operation	Bidder shall make the Ventilation mode / free cooling mode in the SCADA mode table. Employer shall select the mode as and when necessary to reduce the operating cost of the VAC system.	NO
92		2.3.3	UPS battery room		Please share details about UPS battery room for exhaust calculation	Bidder shall assess and propose during design stage with subject to notice of no objection from the Employer.	No

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93		2.4	Space for temporary site offices and storage areas		Space for Site office and Storage area to be provided free of cost	Top of Box of Existing Shenoy Nagar Metro station can be used for site office / storage area.	No
		Air Handling Units					
94		3.2.4	AHU shall be supplied with Eurovent certification		AHU shall confirm EN 1886 for mechanical performance and DX coils won't have AHR1 certification. AHU units won't have eurovent certification. Please clarify.	Not agreed. Tender conditions prevails.	No
95		3.4.3 C	Copper tubes shall be of minimum 6 rows		The coils shall be of DX type. Hence 6 rows won't be required. Please clarify	Bidder shall assess and propose the coil selection during design stage with subject to notice of no objection from the Employer.	No
96		5.4.1 C	Duct material shall be of Galvanised Steel Sheet (GSS) with minimum 275 GSM		Please confirm whether we can use 120 GSM ducting.	Not agreed. Tender conditions prevails.	NO
97		7.4.1 I b	Indoor units		fan efficiency and motor efficiency shall be as per manufacturers standard	Not agreed. Tender conditions prevails.	No
98		8.4.1 P	Fan material		Shall be as per manufacturers standard	Not agreed. Tender conditions prevails.	No
99		Volume 6	Tender Drawings		Please share the layout drawings with property area rooms/areas and sectional drawings.	Bidder shall assess and propose number of rooms / areas, room / area size and application of rooms / areas in order to increase the footfall during design stage with subject to notice of no objection from the Employer.	No
		Volume 3	List of Makes VAC Ventilation and Air Conditioning System				
100			AHU		Please approve Voltas make AHU	Please follow the list of makes for AHU as per tender.	No
101			VRF Units		Please approve Voltas make VRF units	Please follow the list of makes for VRF units as per tender.	No
102			VAC		VAC Provision for retail shop shall be confirmed please.	HVAC equipment's along with low side items for air-conditioning Basement-2 is in contractor scope.	No
103	356		Temporary power supply		Temporary power supply – Temporary distributions for the following items are mentioned as 110 V AC supply, But in our Indian market the following power tools machinery and light fixture are not ready available which is suitable for 110 V AC supply, Hence temporary distribution system shall be followed with 230 Volts AC system , a) portable and hand held tools - 115V/1 phase b) Site lighting (other than flood lighting) - 115V/1 phase; and c) portable hand-lamps (general use) - 115V/1 phase. – Please confirm.	Agreed. 230V AC only.	No
104	247, 513	5.4.3.1	General A) Design Criteria		The Power Supply system shall be designed to provide a 415 V 3 phase 5 wire including earthed 240 V single phase power supply, & System voltage: 415V 3 Phase 4 wires /240V 1 Phase 2 wires, 50Hz - Please confirm whether 4 wire system / 5 wire power system to be considered.	4 wire system with dedicated earth.	No

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105			Power distribution with auxiliary substation		Power distribution with auxiliary substation – ASS two numbers are considered, please confirm the two sources, if it is from TNEB there is possibility of one source, Please confirm the second source, also confirm the distance between from tapping point to ASS1 & ASS2.	Bidder to design. No of source and location, bidder to liase with TNEB and get connections accordingly.	No
106			DG sets		Three are two numbers of DG sets considered, whether it is individual operation / synchronizing operation – please confirm.	Bidder to design. DG backup only common emergency services and not individual retail shops.	No
107			Approved Vendor for UPS		List of approved vendor for UPS & required capacity of UPS shall be confirmed whether it is individual operation / parallel operation – please confirm.	UPS capacity : Bidder to design. UPS operation: Individual operation List of approved make-Refer addendum-1	Yes
108			Battery Voltage		Please confirm the battery voltage – whether 2 volts / 12 volt battery.	2V battery	No
109			List of Approved vendors		Transformer, HT panel, Bus duct, – List of approved vendor/ Make shall be confirmed.	Agreed. Refer Addendum-1	Yes
110			Transformer, HT panel, Bus duct		Transformer, HT panel, Bus duct – detailed technical specification shall be issued.	Agreed. Refer Addendum-1	Yes
111			Transformer		Please confirm Transformer capacity.	Bidder to design	No
112			HT panel & LT panel		Please confirm OEM licensed / direct manufacture	OEM licensed panels	No
113	11	Section - I ITB, Pg 11 S.No 4	Eligible Bidders	Bidder may be a firm that is a single entity or any combination of such entities in the form of a joint venture (JV) under an existing agreement or with the intent to enter into such an agreement supported by a letter of intent. In the case of a JV:	Bidder understands that submittal of Unicorporated Joint Venture agreement will suffice the requirement. Kindly Confirm.	Confirmed.	NO
114	23	Section - I ITB, Pg 23 S.No 21.7	Bid Security	The Bid Security of a JV shall be in the name of the JV that submits the Bid	Bidder requests the Employer to accept the Bid Security provided by any one partner in case of JV.	Agreed. Refer Addendum-1	YES
115	24	Section - I ITB, Pg 24 S.No 23.1	Submission & opening of Bids	Bidder may submit their bids by mail or by hand.....	Bidder understands that only one copy (Hard Copy) each of the Technical & Price Bid is to be Submitted along with the Original (Hard Copy). Kindly Confirm.	In addition to hardcopy (1original + one copy), Soft copy on separate CDs(Technical Bid CD & Financial Bid CD) are to be submitted in sealed covers.	No
116	45		Evaluation - Personnel	Land Scaping (Expat)	Bidder requests the employer to accept the equivalent Experienced Land Scaping Expert from Indian Origin. Kindly Confirm	Agreed. Refer Addendum-1	YES
117	38	Section - III Evaluation & qualification Criteria Pg 45 S.No 1.1.2	Evaluation - Equipment	Plant & machinery shall not be older than 5 Years	As per Section - I ITB, Pg 38 S.No 45.4.2, Periodic Maintenance & Third Party Certificate shall be produced for effective operation of Equipment Deployed. Hence, bidder requests to consider the Third party certificate with assurance for the woking life / residula life of the equipment.	Not Agreed. Tender Condition Prevails.	No
118	46	Section - III Evaluation & qualification Criteria Pg 46 S.No 1.1.2	Evaluation - Equipment	Silent Piler / Vibro Hammer	Bidder understands that any one of the specified equipment shall be used for driving sheet piles (either silent piler (or) vibro hammer).	Agreed. Refer Addendum-1	YES

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119	49	Section - III Evaluation & qualification Criteria Pg 49 S.No 2.3.1	Eligibility and Qualification Criteria, Financial Performance	As per tender it has been mentioned as "Bidder's net worth calculated as the difference between total assets & total liabilities should be positive since 2013".	Bidder requests the employer to change the Compliance Requirement in Joint-Venture as one member must meet requirement instead of each member.	Agreed. Refer Addendum-1	YES
120	51	Section - III Evaluation & qualification Criteria Pg 51 S.No 2.4.1	Eligibility and Qualification Criteria, General Experience	As per tender it has been mentioned as "Experience under contracts in the role of prime contractor (single entity or JV member), for at least the last seven years starting 1st January 2011"	Bidder requests the employer to change the Compliance Requirement in Joint-Venture as one member must meet requirement instead of each member.	Agreed. Refer Addendum-1	YES
121	51	Section - III Evaluation & qualification Criteria Pg 51 S.No 2.4.1 (a)	Eligibility and Qualification Criteria, Similar Experience	As per tender it has been mentioned as "A minimum number of Single(ii) similar(i) or Two(iii) similar(i) or Three(iii) similar(i) contracts that have been completed as a prime contractor since last five years.	Bidder understand that the compliance requirement in Joint-Venture meets all parties combined, which means as a JV one member or combined shall meet this similar experience requirement.	Agreed. Refer Addendum-1	YES
122	67	Section - IV Bidding Forms Pg 67	Summary of Contract Price	Summary of Contract Price	Bidder understands that the total of the summary of contract price (100%) is equal to the Sub Total to be given in clause 1.5 pg 66 i.e excluding GST. Kindly Confirm	Agreed. Refer Addendum-1	YES
123	150	Volume -2 , Clause 14.2 page 150 of 1220	Advance Payment	The Employer shall make an advance payment, as an interest-bearing loan for mobilisation and design, when the Contractor submits a guarantee in accordance with this Sub-Clause	Bidder requests employer to provide 10% interest free mobilization advance against Advance payment bank Guarantee	Not Agreed. Tender Condition Prevails.	No
124	188	Particular Conditions, SI.No 4 pg No:188	Defects Notification Period	1460 days	Bidder understand that the defects notification period shall be 730 days from the date of physical completion of project.	Agreed. Refer Addendum-1	YES
125	189	Particular Conditions, SI.No 4 pg No:189	Delay Damages for the Works	10% of the Accepted Contract Price	Bidder requests employer to limit the maximum amount of delay damages to 5% of the Contract Price, @0.25% per week of delay	Not Agreed. Tender Condition Prevails.	No
126	826-829	Appendix - 1, Clause 1.2.2 Key personnel. Page no 826 to 829	Key Person	List of Key Person	Bidder observe that the list of staff mentioned in the key person is too high compare to the scope of work. This being the special nature of work the requirement of staff to be decided by the contractors.	List of key person for VAC works are modified based on the request from the applicant. Refer Addendum-1	YES
127			Drawings		Bidder request to provide the layout drawing with dimensions.	Agreed. Refer Addendum-1	YES
128			Disposal of excavated Earth		We request CMRL to provide the dumpyard for disposal of the excavated earth from the site.	As mentioned in the tender , the dumping yard shall be within a distance of 25km from the Shenoy nagar station.	NO
129			Variation in subsoil investigation		Bidder understand that any variation in the confirmatory soil investigation shall be suitably compensated	Not Agreed. Tender Condition Prevails.	No
130			Time Extension for Bid Submission		Bidder request to provide extension of time to submit the bid for an additional Two weeks.	Agreed. Refer Addendum-1	YES

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131	45	Section - III Evaluation & qualification Criteria Pg 45 S.No 1.1.1	Evaluation - Personnel		Bidder request to incorporate the Land scapping expert / sub-agency with the following qualification. The Sub-agency credentials along with MOU to be submitted along with bid. 1. Masters in Landscape Architecture from a recognized Institution/ University with a minimum of 20 years professional experience. 2. Graduate in Architecture from a recognized Institution/ University with membership in Council of Architecture. 3. Should have designed & completed at-least 5nos of landscape projects of project value of 5 Crores and above each. (or) Should have designed and completed at-least 5 projects of site extent of 10 acres in area each. 4. Should have won a minimum of 2 National level awards/ design competitions. (or) Should have experience in designing, at-least a minimum of 10 projects of 10 Public parks.	Agreed. Refer Addendum-1	YES
132		1. Evaluation and Qualification Criteria - 2.4.2 (a) – Specific Experience	Specific Construction Experience		a) Specific Construction Experience – Please consider Nominated Subcontractor's experience for E&M works wherein Civil and Architectural work were executed by main contractor.	Agreed. Refer Addendum-1	YES
133			Sub Contractors		b) Please consider proposed subcontractors experience for E&M works similar to such provisions for VAC and Ventilation works as mentioned in the tender document.	Agreed. Refer Addendum-1	YES
134			Experience in E&M		c) Please consider experience for E&M works from other contracts separate from specific experience projects. –	Agreed. Refer Addendum-1	YES
135		Evaluation and Qualification Criteria-1.1.1 – Personnel –	Key Personnel		Personnel such as Senior Architect, Architect, Land Scaping (Expat), Design Managers Civil & MEP, Design Co-ordinator Civil & MEP – Request to please consider the above said personnel part time availability for the subject project.	Not Agreed. Tender Condition Prevails.	No
136		Evaluation and Qualification Criteria-1.1.2–Equipment	Equipment		Please consider sheet pile installation using conventional vibro hammer in lieu of Silent Piler. Also, request to consider Plant & machinery shall not be older than 10 Years instead of 5 Years mentioned in the tender	As long as the Noise Levels are maintained to an acceptable levels, contractor may use Vibro hammer or Silent Piler.	No
137		General Conditions - Clause: 13.8 Adjustments for Changes in Cost	Indices		Please consider current indices for the current month instead of 49 days mentioned in the tender document	Not Agreed. Tender Condition Prevails.	No
138		General Conditions - Clause: 14.2 – Advance Payment	Mobilization advance		We request to kindly consider interest free mobilization advance please.	Not Agreed. Tender Condition Prevails.	No
139			Payment of RA bills		We request to kindly pay 80% RA bill payment within 3 days and balance payment within 10 days from the date of submission of our bills.	80% RA bill payment shall be made within 7 days and balance payment within 56 days from the date of submission of bills. Agreed. Refer Addendum-1	YES
140			Submission of Bids		Please confirm any documents to be enclosed related to the Design details along with the tender.	Documents comprising Technical Bid are given in clause 45.1.2 .1(a) of ITB	No

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141			Architectural Drawings		We request you to kindly provide the Architectural drawings with individual room/shop measurements for both East & West site as well as Lower and Upper Basement floors along with finishing schedules such as details of Partitions, flooring, painting, Joineries, Glazing, False ceiling, etc complete.	Agreed. Refer Addendum-1	YES
142			Autocad drawings		Request to kindly provide the AutoCAD drawings for the subject project as the dimensions are not clear in the drawings given in the tender.	Dimensional drawing added. Please refer Addendum-1	YES
143			Section and Elevations		Please provide some more Section and Elevation drawings for better understanding.	Not Agreed. Tender Condition Prevails.	No
144			Dumping Yard		Dumping Location of excavated earth/building debris, etc may please be provided.	As mentioned in the tender, the dumping yard shall be within a distance of 25km from the Shenoy Nagar station.	No
145			Utilities		We request to kindly provide the details of existing UG Utilities.	Utilities to be shifted shall be paid separately as per Cl.45.6 of ITB	No
146			Land for Site Office		We request you to kindly provide the land for providing our Site office, Stores, Godowns, Batching Plants, Fabrication Yard, Labour Camp, etc within the proposed work site at free of cost.	Top of Box of Existing Shenoy Nagar Metro station can be used for site office / storage area. There is no place available for Batching Plant, Fabrication yard, Labour Camp etc, as the excavation is to be taken up simultaneously on both sides.	No
147			Construction Water and Power		Request you to kindly provide water and power at site at free of cost for the subject project.	Contractor to make his own arrangements for Power and water.	No
148			Shutter Finish		To avoid the ceiling plastering, we request to accept form finish shuttering please.	Form Finish for Ceiling is acceptable. Refer Addendum-1	YES
149			Submission of Bids (Dead Line)		We request you to kindly extend the due date of submission tender till 31.03.2018, as this is a design and Construction package which involves Design, Quantity calculations for Temporary works and the specialized works such as Civil, Structural, Architectural, Plumbing, Electrical, Fire Fighting, Fire Alarm, BMS, VAC, Ventilation works, Landscaping, etc.	Agreed. Please refer Addendum 1.	YES
150			Submission of Queries (Dead Line)		Also we sincerely request you to kindly allow us to send the further queries till 10.02.1018 for the subject project tender.	Not Agreed. Tender Condition Prevails.	No
151	3	3 in NIT	NCB	CMRL invites sealed National Competitive Bidding (NCB) under Single stage two envelope system	Kindly clarify the participation allowed for foreign company as JV partner	Foreign company can be a JV partner. However, all payments shall be made in INR only	No
152	51	51/ 2.4.1	Eligibility & Qualification criteria (Compliance Requirements)	Single entity Must meet requirement and also JV- each member Must meet requirement	We request it can be amended to " any one member Must meet requirement"	Agreed. Please refer Addendum 1.	Yes

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153	51	51/2.4.1	Eligibility & Qualification criteria (General experience)	Experience under contracts in the role of prime contractor (single entity or JV member), for at least the last seven years starting 1st January 2011.	Experience under contracts in the role of prime contractor (single entity or JV member), for at least within the last seven years starting 1st January 2011. - <b>Requested to change - meet with all parties combined or one member</b>	Agreed. Please refer Addendum 1.	Yes
154	51	51/ 2.4.2 (a)	Eligibility & Qualification criteria (Specific experience)	A minimum number of Single(ii) similar(i) or Two(iii) similar(i) or Three(iii) similar(i) contracts that have been completed as a prime contractor since last five years	A minimum number of Single(ii) similar(i) or Two(iii) similar(i) or Three(iii) similar(i) contracts that have been completed as a prime contractor since last Ten years	Agreed. Please refer Addendum 1.	Yes
155	188	188 / 12	Performance Security	BG 7.5% of contract amount	BG 5% of contract amount	Not Agreed. Tender Condition Prevails.	No
156	189	189 / 16	LD - maximum amount of delay	10% of contract amount	5% of contract amount	Not Agreed. Tender Condition Prevails.	No
157	189	189/18	Mobilisation advance	Interest bearing of 10% of contract value in 2 installment - interest 10% per annum.	Without interest bearing	Not Agreed. Tender Condition Prevails.	No
158	189	189/20	Retention amount	5% of IPC amount	We submit BG for the same , request no deduction in bill.	Can be Agreed. But it shall be implemented after award of work.	No
159	190	190/29	Payment to the adjudication	Rs.10,000 per day/part for site visit/sitting subject to a maximum of Rs.25,00,000/- during entire period	N/A	N/A	No
160	67	Pg.No 67/ shedule - A	Summary of contract price		Cumulative of A1, A2, A3, A4 on Schedule - B,C,D,E,F,G is arriving at 4.75% only, kindly clarify	Agreed. Please refer Addendum 1.	Yes
161	22	22 / 20.3	Price adjustment award after the validity period	As per BDS - Factor 1.05	The factor 1.05 upto how many days	One time factor	No
162	188	188/4	DLP	4 years	1 year	Partially Agreed. Please refer Addendum 1.	Yes
163	77	Pg.No 77	AMC & DLP		Mentioned years is applicable for only VAC & Ventilation Systems	Yes	No
164	240	Pg.No 240	Top down construction method		Shall we provide and consider alternative method of construction?	Yes	No
165	4	Pg.No 4	Tender submission	22.02.2018	Request to extend the submission till 15.03.2018	Agreed. Please refer Addendum 1.	Yes
166	3	Pg.No 3	Construction duration	730 days	Request to consider as 910 days	Not Agreed. Tender Condition Prevails.	No
<b>General Questions</b>							
167			Existing Wall design details		Kindly share us the existing diaphragm wall design details	Station plan is already provided in the tender. Detail drawing if required, would be issued to the successful bidder.	No
168			soil investigation		We assume that soil investigation and water test report to be done by the contractor	Yes	No
169			DWG drawing		Request the DWG file showing the periphery elliptical shape and the tunnel with diaphragm wall boundary being the design and built to propose our design.	Agreed.	No
170			Existing Wall design details		Need the detail drawings of the existing diaphragm walls to ensure the Strengthening of Cut Open	Detail drawing if required, would be issued to the successful bidder.	No

**CHENNAI METRO RAIL PROJECT PHASE-I**

**CONTRACT, UAA 10 - DESIGN AND CONSTRUCTION OF UNDERGROUND COMMUTER AMENITIES CENTRE AT SHENOY NAGAR METRO STATION (SSN) INCLUDING ALL TEMPORARY AND PERMANENT WORKS LIKE SHEET PILING, SOIL ANCHORS, RCC RETAINING WALLS/DIAPHRAGM WALL, BASE SLAB, FLAT SLAB BASEMENT SLAB & ROOF, ENTRY/EXIT STRUCTURES, ARCHITECTURAL FINISHES, SUMP AND PUMPS, VENTILATION SHAFTS, ELECTRICAL MECHANICAL WORKS, PLUMBING & FIRE FIGHTING, VENTILATION AIR CONDITIONING AND LANDSCAPING**

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171			Connection to Existing Dwall		Shall we connect the Proposed roof Structure to the existing diphragm wall?	No	No
172			Theatre facility		Shall we consider Theatre facility in One side by accomodating all the retail spaces on the other side	Bidders can propose	No
173			basement-1 circulation		Shall we consider a Horizontal Tunnel Passage for active circulation and convenience of the commuters across the 1st basement level	1st basement is meant for Car parking only	No
174			CAD Drawings		We need CAD drawings for accurate dimensions and details	Agreed.	No
<b>Electrical clarifications</b>							
175					Point of supply of CMRL Utility is 33KV. We can plan connect to CMRL 33KV supply (or) local TNEB substation. Please clarify point of supply required 33KV or 11 KV	CMRL existing can not be used. Contractor to liase with TNEB and get HT supply from them.	No
176	518	Pg.No 518 /Section 5	Outline design specifications		Specification proposed 200 - 300 Lux for retail/ commercial- there will be different occupancy with different requirment. Ex. Supper - markets, hyper- markets: 300 - 500 - 750Lux, Jewellery: 700Lux. Kindly clarify	Bidder to design according to standard. Inside retail shop lighting design it is not part of scope.	No
177					we required approved make of light fixture	Agreed. Please refer Addendum 1.	Yes
178	518	Pg.No 518 /Section 5	Outline design specifications		Light fixture specification - Aluminium mirror reflector cannot be manufactured for Recessed type, kindly clarify	Aluminium mirror reflector not required since it is LED fixture.	No
<b>VAC clarifications</b>							
179			Ambient temperature		Ambient temperature is differently mentioned in COP, Technical datas, Kindly confirm the ambient temperature to be considered.	Ambient temperature mentioned in Volume 4, section 7, clause 2.1.1 shall be considered for heat load calculation. Ambient temperature mentioned in Volume 4, section 7, clause 7.2.6 to check the performance of the VRF unit at manufacturer's factory during FAT as per AHRI conditions.	No
180			stand by units		We understand the complete out door units must be provided with 100% stand by units, kindly confirm	Working and standby arrangement shall be considered for indoor units, outdoor units and insulated refrigerant piping based on the critically of the rooms / area. The critically of the rooms / areas shall be decided during design stage with subject to notice of no obejction from the Employer.	No
181			location of outdoor units		Kindly confirm the location of outdoor units	VRF outdoor units shall be located above the firemen stairs and vent shaft at street level to optimise the foot print area.	No
182			AHU Air distributions		Kindly confirm the AHU Air distributions for Malls and corridors	AHU and air distribution system shall be in bidder / contractor scope.	No
183			smoke extractor fans		We understand the smoke extractor fans to be fixed in the return air duct with proper damper to isolate it from AHU during smoke extraction time	Yes.	No



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184			individual indoor units		Do shops need individual indoor units	Bidder shall assess and propose the indoor units considering the interior layout during design stage with subject to notice of no objection from the Employer.	No
185			stand by units		We understand HRWs not required 100% stand by, Kindly confirm	100% working and 100% standby smoke extraction fans shall be considered for the smoke extraction area / rooms based on the smoke zoning layout since the property development areas are located in the 2nd basement level.	No