

Minutes of the Pre-bid Meeting

Pre-Bid Meeting for Interior works (1) HVAC, (2) Fire detection and suppression systems , (3) STP and (4) Landscaping for National Centre for Sustainable Coastal Management, Chennai was held on 21.01.2014, 11.30 AM.

Members Present:

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| 1. Dr.Ranee Vedamuthu | Architect Consultant, NCSCM – Chairman |
| 2. Mr.Iype Chaco (Member | M/s.Flying Elephant Architect Consultant – Member |
| 3. Dr. B.R. Subramanian | Sr.Scientific Consultant,NCSCM-Member |
| 4. Dr. D. Chandramohan | Senior Scientific Consultant, NCSCM-Member |
| 5. Dr. V. Kannan,Senior | Scientific Consultant, NCSCM-Member |
| 6. Dr. Purvaja Ramachandran | Scientist G, NCSCM,Chennai -Member |
| 7. Mr.Siva Senathipathi | M/s.Gleeds, Hooloemann-External Member |
| 8. Mr.Prabhakar Kawale | M/s.Gleeds Hooloemann -External Member |
| 9. Mr.M.Gopinath | RC Architect Consultant Pvt. Ltd- External Member |
| 10. Mr.Padmanabha.B | MMG Acouetical Consultant External Member |
| 11. Mr.R.Deepak.R | Design Engineer MCD BERL MEP Design Consultant, Bangalore |

Representatives of Participating Firms:

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| 1. Mr.N.Muralikrishnan | M/s.Kewaunee India,Bangalore |
| 2. Mr.Gnanm Moorthy | M/s.Sterling & Wilson |
| 3. Mr.Venkatesan | M/s.Vector Projects (I) Pvt. Ltd,Mumbai |
| 4. No Name | M/s.T2T Designs Pvt. Ltd, Chennai |
| 5. Mr.K.Senthil Kumar | M/s.Renaatus Projects (P) Ltd,Erode |
| 6. Mr. Mohan | M/s.Solar Designs P Ltd,Chennai |
| 7. Mr.Mahendran | M/s.Voltas Ltd,Chennai |
| 8. Mr.J.Balu | M/s.Enviro Services (P) Ltd,Chennai |
| 9. Mr.S.Manivannan | M/s. Trac Fujico Air Systems LLP,Chennai |
| 10. M.Murali | M/s.e- security system, Chennai |
| 11. Mr.R.Venkatraman | M/s.Metec Design and Construction Engineers India P Ltd, Chennai |
| 12. Mr.P.Arun | M/s. Godrej & Boyce Mfg. Co. Ltd,Chennai |
| 13. Mr.Jeme Augustin | M/s. Godrej & Boyce Mfg. Co. Ltd,Chennai |
| 14. Mr.P.S.N.Swamy | M/s.New Fire Energy P Ltd, Chennai |

The pre-bid meeting was held under the chairmanship of Dr.Ranee Vedamuthu, Architect Consultant, NCSCM, Chennai. The Chairman welcomed all participants to the meeting.

The participants were invited to present their queries for the various Interior works, for which tenders were called for. In response to the queries and suggestions made by the prospective bidders, the response is appended as **Annexure-A**.

Bid Ref No : NPMU/W- 20b/4 – Fire detection and suppression system

A. Technical Clarification

S.No	Item	Tender Page No	Clause No	Query	RESPONSE
1	Electric Motor Driven Booster Pump			Schematic diagram NO:F-108,Total qty for Electric Motor Driven Booster Pumps at terrace level qty is 6 Nos given. SECTION C:- PUMPS AND ACCESSORIES-Item No:1,Electric Motor Driven Booster Pumps qty is 5 Nos given.Kindly Confirm the Qty for boosterPump.	Please consider 6 nos booster pump
2	Pump Head.			Schematic Diagram No.: F -108, Head for Diesel engine driven pump, Electrical motor driven pump, jockey pump - 90m is given. SECTION C :- PUMPS AND ACCESSORIES. Head for Diesel engine driven pump, Electrical motor driven pump, jockey pump 60m is given. Kindly Confirm the required pump Head .	Please consider the head for Electric, Diesel and Jockey pump as 65m. Pl. refer Amendment 2 to this Package.
3	Diesel engine driven pump.			Schematic diagram NO: F-108, Qty for Diesel engine driven pump is 1 No given. SECTION C:- PUMPS AND ACCESSORIES.-There is no pump qty for Diesel engine driven pump Whether Diesel engine driven pump is required or not.Kindly Confirm the Qty for Disel engine driven Pump.	Please consider 1 Electric pump and 1 Diesel pump each of 2280 lpm @ 65m head and 1 jockey pump of 180 lpm @ 65m head
4	Control Panel for booster pump.			Schematic diagram NO: F-108,Total qty for Electric Motor Driven Booster Pumps at terrace level qty is 6 Nos given. SECTION C: Item No:5-CONTROL PANEL FOR FIRE PUMPS-There is no panel qty for Electric Motor Driven Booster Pumps Kindly Confirm the Qty for booster Pump panel.	For the fire panel, please consider 6 no. of outgoing for booster pumps

5	Cables for booster pump.			Schmatic diagram NO: F-108,Total qty for Electric Motor Driven Booster Pumps at terrace level qty is 6 Nos given. SECTION C:Item No: 6-1100V Grade power/Control Cables FOR FIRE PUMPS - There is no cable qty for Electric Motor Driven Booster Pumps. Kindly Confirm the Qty for booster Pump cable.	Please consider the cable quantity as per the tender drawings
6	G.I Earthing strip.			SECTION C: Item No: 8 -G.I. Earthing strips of 25mm x 6mm thick, strip & 50mm x 6mm thick - GI strip Kindly Confirm the Size of the Earthing Strip.	Please consider Earthing strips of 25mm x 6mm thick
7	Ball Valve.			SECTION C: Item No:11-ball valves with screwed ends confirming to IS 1703 -1977 is Given Kindly give the MOC of the valve	Please refer IS 1703 -2000 for MOC of Ball valves
	<i>Sprinkler System</i>				
8	Alarm valve			SECTION D:- SPRINKLER SYSYTEM-There is no qty for Alarm valve. Whether Alarm valve is required or not. Kindly Confirm the Qty for alarm valve.	Alarm valve not required
	<i>Automatic detection, fire alarm and PA system</i>				
9	A - 5.1 - Clearance and Approvals	5 of 73		All detectors and sensros shall be approved by UL or FOC or any other internationally recognized body acceptable to Employer/ Engineer.Whereas B-1.0 of same tender spce calls for EN-54. Our proposed detectors is having UL approval and will not meet EN-54 standard. Please confirm your acceptance.	UL listed is acceptable

10	B - 4.0 - Addressable type Response Indicators	7 of 73		Group of detector must have a single response indicator at outside. Dedicated response indicator shall be provided for each detector, which is located in hidden areas like false ceiling/false flooring. The requirement of single response indicator is possible in case of conventional fire alarm system and not in case of addressable fire alarm system. Please confirm your acceptance.	Addressable fire system will have inbuilt response indicators, which is located in the false ceiling
11	D. 3 & 13 & 14 - Recommended Makes of FA system Components	13 of 73		Edwards/Notifier/Honeywell/Tyco/Kidde/Apollo make fire alarm panel As per Clause No. D 13 & 14 - Smoke & heat detectors are of Tyco/Kidde/Apollo/System sensor. In case of addressable FA system, all detectors, panel shall be from same Vendor/make only then communication between panels & detector will get established. Hence, we propose the make of FA panels shall be followed for detectors also. Please confirm your acceptance.	Yes - Consider the following makes for detector to match the FA panel - Edwards/Notifier/Honeywell/Tyco/Kidde/Apollo
	<i>Clean Agent Fire Extinguishing System</i>				
12	Approval of Complete System	53 of 73		Total Flood Clean Agent Fire Suppression System with UL Listed & FM approved for the complete system. Total Flood Clean Agent Fire Suppression System of major equipments will have UL / FM / LPCB / Vds approval, except pipes, cables which are indigenous items. Please confirm acceptance.	The pipes and cables can be indigenous items - but the complete system must be UL / FM listed

13	Design Concentration	53 of 73		Minimum Design Concentration. According to NFPA 2001, 2012 Edition minimum design concentration is 37.9% Class 'A'. Please confirm acceptance	Kindly furnish the system approved documents from UL or FM while mentioning the concentration
14	Cylinder Assembly	54 of 73		Cylinder Charging Pressure is either 150 bar of 200 bar at 21 deg. Celsius. Edwards/Notifier/Honeywell/Tyco/Kidde/Apollo make fire alarm panel. Please confirm cylinder charging pressure 300 bar at 21 deg. Celsius acceptable. This will reduce number of cylinders as well as cost.	Please consider UL / FM listed cylinder charging pressure
15	Flow Calculations	55 of 73		UL listed / approved Software. Vds approved software will be used for flow calculations.	Please consider UL listed / approved software
16	Bill of Quantities	71 & 72 of 72		Bill of Quantity attached with specification. BoQ included along with tender specification is based on IG541 - 150 Bar. Please confirm can we submit our BoQ based on IG-55 (200 Bar or 300 Bar)	Oxygen level should be maintained more than 12.5 % as per IG541
17				Please provide us the drawings indicating location of storage cylinders.	Cylinder locations are in the pump room indicated in the drawing 1348-P-104
18				Kindly provide us the plan & sectional drawings in Autocad version (showing the false floor, room void & ceiling void) of Block B & C to be protected by inert gas system.	Please refer Page 56 for room dimensions
19	A - 1.5 & 1.6	15 of 73		Contractor to note that bill of materials is indicative only. Quoted unit rate will be used for price adjustment. If any item is missed out in the bill of materials, the same shall be treated as extra. Example - Installation Control valve is not available in the Bill of materials furnished by you. Please confirm your acceptance.	ICV is not required
19	B - 8.0 - Strainers	21 of 73		Strainer element shall be of Bronze. Our proposed strainer will be having Stainless Steel Element. Please confirm your acceptance.	Stainless Steel element in the strainer is acceptable provided the vendor warrants no corrosion.

20	B - 10.0 CP Hose pipe	21 of 73		Hydant valves and CP hose pipe. As per Cl. NO. 11.0 Hose pipe shall be as per IS 636, which refers to Reinforced Rubber Lined Hose pipe.	Please follow as per IS 636, which refers to Reinforced Rubber Lined Hose pipe.
21	C - First Aid Fire Extignuishers	23 of 73		Fire extinguisher shall follow as per latest IS. Please include IS 15683 also for portable fire extignuisher, which is latest.	IS 15683 is mentioned in BOQ. Please follow the same
22	E - 2.2.7 - Spare sprinklers	29 & 68 of 73		Spare sprinklers 24 Nos. as per E-2.2.7. Section - D - S. No. 7.0 indicates spare sprinkler of 10 Nos as quantity. Please clairfy the requirement.	Please consider 24 number of sprinklers for ordinary hazard
23	H - 10 - CP Hose Pipe - Recommended makes	50 of 73		As per Cl. NO. 11.0 Hose pipe shall be as per IS 636, which refers to Reinforced Rubber Lined Hose pipe. Please include make of (RRL) Reinforced Rubber Lined Hose Pipe also	Please consider RRL for Recommended makes item 10
24				Please consider additional list of vendors / make attached herewith.	No - Please follow the list of vendors and makes as per the tender document.
25	D - 7.0	68 of 73		Section - E - Cl. No. 2.2.7 indicates spare sprinkler of 24 Nos as quantity. Please clarify the requirement.	Please consider 24 number of sprinklers for ordinary hazard
26	G - BOQ	69 of 73		Section - B - Cl. No. 9 of tender spec calls for PA system, which is one way communicaiton only. Please clarify the requirement.	Please consider 2 way talk back

27			<p>Supplying, installing, testing and commissioning of GI pipes of class 'C' to confirm IS:1239, malleable special sextruded type, such as Reducers,elbows,flanges. The pipes shall be painted with primer & Paint using approved type, Galvanized, supports at standard spacing, anchor fasteners, bolts, nuts, clamps, rails "U" & threaded bolt, including cutting, welding, fixing in / on walls, ceiling by using the supports etc, as per drawings.The quoted rates shall also include for chasing / chipping walls, floors, making boreholes in walls/floor and making them good with Non-shrink filler material (as approved by Architect) in boreholes / finished in cement mortar etc. complete. (Above Ground) The quoted rate shall includes of Acrylic Firestop Sealant (as per IS 12458 : 1988) in the opening for pipes passing through fire compartment walls of RCC floors, masonry walls to provide up to 2 hours fire rating. We request you to considerd fire sealent and civil works in civil scope - Or you shall give separate line item for the fire sealent separate in measureable basis.</p>	<p>Fire Sealant and civil works mentioned in the specification Section-A, item 3.0, has to be considered in the same specification and quoted. Separate item cannot be given.</p>
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Bid Ref No : NPMU/W- 20b/4 – Fire detection and suppression system

B. Commercial Clarification

Sl. No.	Item	Query	Compliance
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1		Payment terms for supply: 10% on advance requested against BG 75% against supply of material on Pro-rata basis requested 10% against testing and commissioning 5% Against handing over	Payment will be made as per the Terms & Conditions of Bid Document.
2		Payment terms for erection: 90% Against installtion of material 10% Againt testing and commissioing	Payment will be made as per the Terms & Conditions of Bid Document.
3		We are coming under SSI Units and having valid NSIC Certificate. Please inform us whether we are exempted for submitting Tender Fee & EMD.	No. Any bid not accompanied by acceptable Cost of Bid Document and Bid Security shall be rejected by the Employer as non-responsive. Pl. refer Para 3 & 4of IFB and ITB Clause No.16.
4	Fire NOC	Fire NOC will be in our scope or in client scope.	The building does not require Fire NOC. If any statutory approvals are required, the Vendor will be responsible for the same and it will be paid as per actuals.
5	Bill of Quantities	THE BOQ for this is in the PDF format as some line in the column are hidden and as we required clarity requesting you to give the excel format of the file.	Revised pdf and excel file attached.
6		Labour camp – space for labour camp will be given inside the campus as per the tender .	No labour accomodation is permitted on the site. The Contractor will be provided an area for stores. He will be responsible for construction of the store and its security with optimum staff. Works shall be done in a manner that does not interfere or disturb the activities of campus inhabitants, especially with respect to Health and Safety.
7		Will NCSCM provide Power and Water for Construction	No. Water and Electriciy for erection, testing and commissioning will not be provided by NCSCM.
8	Supply of all equipments to commence installation works	4 months from the date of issue of notice to proceed with the work. In Clean Agent System major items are being imported from European countries, which needs 4-5 months for delivery. Kindly extend supply period from 4 to 6 months.	Please refer Amendment 2.
9	Completion of Whole Work	6 months from the date of issue of notice to proceed with the work. 9 Months from the date of issue of notice to proceed with the work.	Please refer Amendment 2.