

MINUTES OF PRE BID MEETING

Project	: Revival of BCG Vaccine Laboratory, Chennai
Agenda	: Pre Bid meeting for Wastewater Treatment plant at BCGVL.
Tender	: NPI/110729/WTP/TD/08; Revision – 05; August 2013
Venue	: HLL Lifecare Limited, Chennai
Date of Meeting	: 23 rd September, 2013
Issued by	: Vice President (Projects), HLL Lifecare Limited, Chennai
Issued On	: 24 th September 2013

The Pre Bid meeting was conducted on 23/09/2013 at HLL Lifecare Limited, Chennai to clarify the tender query of vendors on Wastewater Treatment plant for revival of BCG Vaccine Laboratory, Guindy project. This Pre Bid minutes will be the part of original tender. Hence all the vendors shall strictly adhere to the clarifications mentioned in this Pre Bid minutes while submitting their bid.

The query raised by the vendors and subsequent clarification are as follows.

SI. No	Page No / Ref No.	Query Raised by Bidders	Clarification by HLL
1	49 / 1.c	Kindly elaborate the kind of Software update.	Any installed software update during Defect Liability Period and CMC period will be free of cost.
2	49	Comprehensive Maintenance shall be for 2 years or 5 years to be quoted?	Comprehensive Maintenance shall be of 5 years as mentioned in Tender.
3	93/ 2.3.3 .11	DMF – Auto or Manual? Please mention the velocity, MOC, Backwash pump required separately?	Kindly refer the specification as provided in Bill of Quantity (BoQ) for filtration system in ETP (page 142) and STP (Page 149). (refer the P&ID)



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4	93	ACF – Auto or Manual? Please mention the velocity, MOC, Backwash pump required separately?	Kindly refer the specification as provided in Bill of Quantity for filtration system in ETP (page 142) and STP (Page 149). (refer the P&ID)	
5	141 & 145 / 2.0	SS Motorized screen of 2mm shall be of Auto or Manual mode of operation?	This is an automatic SS motorized screen. Size of the screen should be proper fit to screen chamber to ensure the effluent passes only through screen for further process.	
6	150	Please confirm MOC of Valves in UPVC piping and MS piping.	MOC of Valves in UPVC piping and MS piping shall be UPVC and MS respectively.	
7	90/ 2.3	Inlet Water analysis shall be in detailed form; we need Nitrates, Total Kjeldahl nitrogen, Phosphorous.	Nitrates, Total Kjeldahl nitrogen, Phosphorous is	
8		Total Dissolved Solids is mentioned as 2000 ppm, but SO4 and Cl2 together constitute 3835 ppm, please confirm the TDS value?	All values of waste water are as per Tender document, vendor shall consider TDS as 2000 ppm.	
9	90/2.3.1	Output TDS value cannot be guaranteed unless Confirming the inlet TDS value or else RO system has to be envisaged additionally.	No RO system to be considered and however vendor will be responsible to meet the for final discharge water quality as per pollution control board norms.	
10		Please confirm the Calcium and Magnesium value as this may result in Calcium Chloride after addition of Barium chloride.	Calcium and Magnesium is not present in the effluent.	
11		Is there any possibility of oil, Fats & Grease in the effluent?	Though there is no possibility of Oil, grease and fats in effluent, but still vendor shall consider 0.01% and quote accordingly.	



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12	93	Stage wise reduction in anaerobic tank, MBBR tank – 1 & 2 is not possible, since tank sizes are freezed. We can guarantee the reduction if we design and arrive at the tank sizes.	Dimension of Anaerobic & MBBR tank mentioned in the tender (Layout plan drawing) is indicative only. However Vendors shall consider the dimension as per their own design to achieve the desired stage wise reduction and quote accordingly. Vendor should also ensure that final water quality of ETP & STP discharge is as per TN Pollution Control Board norms.	
13	General	Clarifiers mentioned, whether it is Lamella Clarifiers? – Please confirm	Clarifiers mentioned are Lamella Clarifiers.	
14		MOC of Lamella Clarifiers to be confirmed.	MoC for Clarifiers should be as per tender specifications and Lamella Clarifier will be of Poly Propylene (PP).	
15		For Civil Works, Work Contract tax should be inclusive or exclusive in the supply price?		
16		Incomer Cables - Transformer/ Substation to MCC Room distance shall be provided.	Incomer cable to the Main control panel will be provided by Client. However, from control panel to all other equipments will be in the scope of Vendor, for which no additional cost will be paid.	



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17		Kindly provide the specification for MCC panel and PLC panel.	MCC panel shall be metal clad totally enclosed rigid floor/wall mounted, air insulation, cubical type suitable for operation on 3 phase / single phase, 415/230 volts 50 Hz. Panel shall be designed & built as per IS standards. However vendor has to get approval for HLL and NNE for MCC/PLC panels before starting the fabrication works. Cable entry for MCC panel should be from Top, Access for feeders and termination shall be from front and all necessary protection required for incomers and feeders shall be considered. Selection of switch gears protection devices shall be based on the calculations provided by vendor and same shall be approved by HLL and NNE. MCC construction shall be of standard type 3A or 3B. MCC panel shall be placed on 75mm MS channel and operating height of the panel shall be 2075mm at maximum. Double earthing shall be provided for MCC panel and earth bus (GI) shall run throughout the panel
18		Whether earthing above and below Ground is in our scope. If Yes, please mention the MOC of earthing material.	Earth Pit will be in client scope and the connection from the equipment to earth pit will be scope of Supplier. And double earthing shall be provided for all equipment with copper strip/ GI strip as per CEIG /CEA norms.



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19		Electrical & Instrument - Vendor list shall be provided.	As per annexure 1 (As this is the standard approved makes of electrical items. Kindly refer for the makes list for required items)	
20		Kindly give the Electrical & Instrumentation scope and specification for the plant.		
21	Page 142/ Item No. 13	Decanter System to handle sludge for an ETP 20m ³ /day or equivalent sludge. Can we provide alternate 'filter press for the small capacity	The Decanter system should be provided with specification as per Tender and with minimum of 80% dryness.	
22		Details of Claire Fontaine required	<u>Website:- www.metsiet.com;</u> Mail Id :- sales@metsiet.com;	
23		For which equipments do you require PLC	PLC mentioned in the standard make list is not intended for any specific requirement of ETP. However vendor can consider PLC/Micro controller or any other automation as per their design and tender requirement.	
24		There is a mention of 40 mm MS in Legend and 40 mm UPVC for air pipeline in the layout. What is actual requirement	For wetted area of ETP & STP, UPVC pipe and fitting shall be considered whereas for remaining area MS pipes and fitting to be considered.	
25	155/ 2.8	Indigenous FRP Tanks will be provided	Vendor to provide items as per Tender make.	



SI. No	Page No / Ref No.	Query Raised by Bidders	Clarification by HLL	
26	157 & 159	Make of Coarse or Fine Screen Chamber, MBBR tanks and Air Grid - Make doesn't apply because they are fabricated products.	Approved make material shall be used for Fabrication.	
27	157	MOC of Dosing tanks to be mentioned	Dosing tanks should be made of HDPE / PP.	
28	157	Make of Sludge Decanter System	Alfa Laval / Claire-fontain can be considered.	
29		Aerobic Tank	Supplier to consider Aerobic Tank and there will be only traces of Methane generated. So the vent is considered as part of the tank for supply.	
30		Requirement of Sludge transfer pump	Vendors to consider sludge transfer pump as per Tender.	
31		Payment Terms	Payment Terms will remain as specified in Tender.	
32		Performance Bank Guarantee (PBG)	PBG will be valid for 20 Months from the date of award of work	
33		СМС	Vendor shall consider 16 hours of operation in a day for CMC.	
34		Years to be considered for submission of Financial Documents.	Vendor to submit Financial documents for last 3 years. (2012-13, 2011-12, 2010-11)	
	Page No :- 148 - 149	In tender document the page no. 148 & 149 is repeated. Whether it is typographical error or we need to quote for twice?	ropotition of Dago No: 11E 116	



SI. No	Page No / Ref No.	Query Raised by Bidders	Clarification by HLL
36		For online monitoring shall we consider the make of Forbes Marshall? Kindly confirm.	Vendors to consider online monitoring as per Tender.
37		Kindly scope under clearance from TNPCB. If the CTE is already available, please share the details with us with conditions prescribed by the Board.	No CTE is obtained. The Vendor will be responsible to get the clearance from TNSPCB for the compliance before handing over the plant to the client.
38		Kindly provide the below details for civil works Soil data .	AS PER ANNEXURE 02
39		There is a drain pit indicated in the P & ID provided by you along with the tender document. But the disposal pump for the pit water is not indicated in P & ID and also in the BOQ. Kindly confirm.	We are using the decanter for sludge moisture removal. Hence we doesn't require pump for the drain pit.
40		Confirm the type of automatic fine screen, whether it is hyperbole or online screen type?	Automatic fine screen is Online screen type



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Name	Organisation	Email and Phone Number	Signature
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S. SURESM.	Hillife Care btd. Chanao	sure shall for careful to	23) 9/12
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Name	Organisation	Email and Phone Number	Signature
		beganand @ Yahoo.com	unne
R. ANANDAW	BCUVL	9840455393	247
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A. Mumgesan	19	9444444108	griffine
	Aqua Doswgar Indoa pre. Led	994020 9443 aquaker Qagua deriga. in	Hones
, patani pondian J. E. /angovon	FO Care Businecound System	9566005588 9962035588 ecocare. CP & grail. Com	s.Edy.
MYTHILL R.	HLL	9500120812.	e. Leythil
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Abhijeet Kuman	HIL	9791012283	Abhileet Kumm 23/09/

ANNEXURE 01

LIST OF APPROVED MAKE FOR ELECTRICAL ITEMS

Sr. No	Description	Recommended List of makes			
1.	MV PANEL	MEGAWIN	SIEMENS		ABB
2.	MV VOLTAGE SWITCHGEAR	MEGAWIN	SIEM	ENS	ABB
3.	LOW VOLTAGE SWITCGEAR	SIEMENS	SCHNE	EIDER	L & T
4.	AIR CIRCUIT BREAKER AND MCCBs	SIEMENS	SCHNEIDER		L&T
5.	PROTECTION RELAY (NUMERICAL)	SIEMENS	ABB		AREVA
6.	PROTECTION RELAY (ELECTRO- MAGNATIC)	ABB	AREVA		
7.	DISTRIBUTION TRANSFORMER (DRY TYPE)	VOLTAMP	UNIVERSAL	ABB	RECONS
8.	ON LOAD TAP CHANGER	OLG	СТ	R	EASUNMR
9.	ANALOG METERS	RISHAB	AE		
10.	DIGITAL METER/LOAD MANAGERS / SMART DEMAND CONTROLLER	SCHNEIDER	SIEMENS		EAPL
12.	KWH METER	SCHNEIDER	SIEMENS		
13.	HT TERMINATION KIT	RAYCHEM	3М		
14.	INDICATING LAMPS/PUSH BUTTONS (LED TYPE)	SIEMENS	SCHNEIDER		TECKNIC
15.	SELECTOR SWITCHES	SIEMENS	SALZER		KAYCEE
16.	BREAKER CONTROL SWITCH	KAYCEE	SIEMENS		SAILZER
17.	AUXILIARY RELAY	OEN	OMRAN		PLY
18.	HT CT & PT -RESIN CAST	AE	PRAGATI		
19.	LT-CTs & PTs -RESIN CAST	AE	КАРРА		
20.	CONTROL FUSE AND FUSE FITTING	SIEMENS	SCHNEIDER		L & T
21.	ELECTRONICS TIMER	SIEMENS	SCHNEIDER		EAPL
22.	PVC WIRES-1100V (FRLS GRADE)	FINOLEX	POLYCAB	HAVELLS	ANCHOR
23.	SPACE HEATER	GIRISH & CO	TELELAC		

Sr. No	Description	Recommended List of makes			
24.	ANNUCIATION	MINILEC	TRINITI		
25.	DIN CHANNEL/PVC CHANNEL /PVC CLAMP/BUNCHING TAP	LOCAL MAKE			
26.	BUSBAR	INDILCO	NALCO	JINDAL	
27.	HOOTER	MINILEC	TRINITI		
28.	EARTH LEAKAGE RELAY	PROK DEVICES	MINILEC		
29	HT CABLE	UNIVERSAL	POLYCAB	CCI	
30.	CAPACITOR (GAS FILLED TYPE)	EPCOS	SCHNEIDER (MEHAR)	ABB	
30.	LT POWER AND CONTROL CABLES	UNIVERSAL	POLYCAB	HAVELLS	
32.	LT FLEXIBLE , FLEXI-BREAD AND SCHEILDED CABLES	LAPP	HELUKABEL		
34.	APFC RELAY	EPCOS	ABB	L&T	
35.	CABLE GLANDS (SINGLE /DOUBLE COMPRESSION)	DOWELLS	JAINSON	COMET	
36.	PVC GLAND	LAPP	HENSAL		
39.	MCB AND MCB DISTRIBUTION BAORS WITH 10 KA FAULT LEVEL FOR LIGHTING AND POWER	LEGRAND	SIEMENS	SCHNEIDER	
40.	DOMESTIC TYPE MODULAR SWITCH & SOCKET OUTLET, FAN REGULATOR	LEGRAND	МК	CRABTREE	
41.	INDUSTRIAL RECEPTACLES	MANNEKS	CLIPSAL	LEGRAND	
42.	INDUTRIAL TYPE SOCKET OUTLET, (PENTRA TYPE)	LEGRAND	BCH	ABB	
43.	LIGHT FIXTURE (COMMERCIAL & DECORATIVE)	WIPRO	PHILIPS	BAJAJ	
44.	LIGHT FIXTURE (INDUTRIAL IP 65)	WIPRO	PHILIPS	BAJAJ	
45.	LIGHT FIXTURE (CLEAN ROOM)	WIPRO	PHILIPS	BAJAJ	
46.	CEILING FANS	CROMPTON	USHA	BAJAJ	
47.	EXHAUST FANS	CROMPTON	USHA	ALMONARD	
48.	WALL MOUNTED FANS	CROMPTON	USHA	BAJAJ	
49.	MS CONDUIT AND ACCESSORIES	NIC	STEEL CRAFT	AKG	

Sr. No	Description	Recommended List of makes			
50.	PVC FRLS CONDUITS & ACCESSORIES (HEAVY DUTY ONLY)	NELCO	VIP		AKG
51.	PERFORATED CABLE TRAYS/ LADDER CABLE TRAYS	RK ENGINEERING	PATNI		UNIVERSAL
52.	PVC TRUNKING	LEGRAND	MK		OBO
53.	METAL TRUNCKING	LEGRAND	OBO		МК
54.	UPS	EMERSON	APC	HIRAL	SOCOMEC
55.	BATTERIES	EXIDE	AMCO-	YUASA	PANASONIC
56.	MOTOR STARTERS	SIEMENS	SCHNEIDER		
57.	VOLTAGE MONITOR	MINILEC	SIEMENS		
58.	HAND DISINFECTANT	TECHNOCRAT	SANITT		ALEGRO
59.	HAND DRYER	TECHNOCRAT	AQUA AIR		ALEGRO
60.	AIR CURTAIN	BEACON	ALMONARD		FAB TECH
61.	FLY INSECT KILLER	TECHNOCRAT	PEST-O-FLESH		
62.	FLAME PROOF LIGHT FITTINGS AND ACCESSORIES	SUDHIR SWITCHGEAR	FCG		R-STAHL
63.	NETWORK WIRE & NETWORK SWITCH	CISCO	ENTERASYS		D LINK
64.	OFC CABLE	MOLEX	SYSTIMAX		AMP
65.	TELEPHONE WIRE	FINOLEX	POLYCAB		ANCHOR
66.	EPABX SYSTEM	NEC	SIEMENS		ALCATEL
67.	ANALOUGE TELEPHONE	BINATONE	ALCATEL		SIEMENS
68.	DIGITAL TELEPHONE	NEC	ALCATEL		SIEMENS
69.	CCTV SYSTEM	HONNEYWELL	SIEMENS		ZICOM
70.	SANDWICH BUSDUCT	C & S	LEGRAND		GODRAJ
71.	CHEMICAL EARTH PIT	ASHLOK	SM INDUSTRIES		JEF TECHNO.
72.	LIGHTNINGPROTECTION SYSTEM	CIPROTEC	INDLAC		ALLTEC
73.	SURGE PROTECTION DEVICE	LEGRAND	HAGER		SIEMENS
74.	OUTDOOR PUSH BUTTON STATION	HANSU	FCG VAIS		VAISHNO

Sr. No	Description	Recommended List of makes			
75.	ТТВ	SIMCO	IMP	CANDS	
76.	NEUTRAL LINK	LOCAL MAKE			

ANNEXURE 02

Soil data of BCG vaccine Laboratories

1. The area explored has got top soil of 0.8 to 1.5 M is fill of gravelly soil. The underlying layer is disintegrated rock with medium rock appearing at depths varying from 2.0 to 5.6 M below ground level. Water table was met with at 0.9 to 1.05M below ground level at the time of exploration.

2. For the proposed structure shallow foundations can be given at any depth from 1.5M, resting the foundation on the disintegrated rock layer with an SBC of 3.5 kg/cm^2

3. When the foundations are placed on the medium rock layer the SBC that could be adopted is 10.0 kg/cm^2.

4 The settlement would be within 25mm

5. Over excavations in the foundation trenches should be refilled by lean concrete in disintegrated rock and by 1:3:6 concrete in medium rock.

6. Suggested excavation procedure should be adopted while undertaking the construction.