Issued to:

NATIONAL CENTRE FOR BIOLOGICAL SCIENCES



Annual Maintenance Contract for STP & Water Supply Systems at NCBS, CCamp, Instem and CB Campus for the year 2016-2017

TENDER DOCUMENT

PRICE BID

(PART - II)

SCIENTIFIC & ENGINEERING SERVICES 2016

Tender Notice No: NCBS/Maint(Civil)/264(h)/NIT-53/2016 dated 18/10/2016

NATIONAL CENTRE FOR BIOLOGICAL SCIENCES

Tata Institute of Fundamental Research GKVK Campus, Bellary Road, Bangalore - 560 065. Phone: 23666352 Fax: 23636662

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Tender Notice Number: NCBS/Maint(Civil)/264(h)/NIT-53/2016 dated 18/10/2016

1. NAME OF THE WORK	: Annual Maintenance Contract for STP & Water Supply Systems at NCBS, CCamp, Instem and CB campus for the year 2016-2017
2. ESTIMATE VALUE PUT TO TENDER	: Rs. 27.05 Lakhs
3. EARNEST MONEY DEPOSIT	: Rs. 54,100/-
4. COST OF TENDER DOCUMENT	: Rs. 500/-
5. SALE PERIOD	: 21/10/2016 to 03/11/2016
6. TIME & DUE DATE OF RECEIPT	: Up to 15:00 Hrs On: 09/11/2016
7. TIME & DATE OF OPENING	: After 15:30 Hrs On: 09/11/2016
SOLD TO:	RECEIPT NO:
DATE:FOR A SUM OF Rs	TOWARDS
TH	E COST OF TENDER DOCUMENT.
SIGNATURE OF ISSUING OFFICER:	
DESIGNATION:	

Important Note: All bidders are requested to attend the Pre bid meeting on 04/11/2016 at 15:30 Hrs. in the office of the Head–S&ES, NCBS.





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Tender Notice No: NCBS/Maint(Civil)/264(h)/NIT-53/2016 dated 18/10/2016

GENERAL ABSTRACT

	Schedule – 1		
	A. Part – I	-	Rs
	B. Part – II	-	Rs
	Grand Total Amount	_	Rs
Amount in W	ords:		
	•••••••••••••••••••••••••••••••••••••••		
			Only)
Date:			
Place:			Signature of Tendere





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	a) Schedule – I	1-4	
	b) Details break up Table A to C	5-7	
	c) Annesure-1 - Schedule of Equipments / Plants	8-11	



Name of work:- Annual Maintenance Contract for Maintenance of STP & Water supply systems at NCBS, CCAMP and CB-Campus for the year 2016-2017.

Schedule - I

S.No	Description of the items	Unit	Qty	Rate	Amount
		Onit	Qty	In Figure & In words	In Figure & In words
A.	Part - I:				
1	Compensation for arranging suitable working mechanisms for carrying out the operation and maintenance of water supply networks and STP including operation of valve and pumping water from 4 lakh to varioous OHT in different blocks, labs, housing, Animal house on daily basis. collection well operation and maintenance of pumps and related equipments in 2 shifts pertaining to water supply and STP at NCBS campus and CB-campus at yelahanka.				
	Operation of pumps, filters rotors, aerators etc., pertaining to STP and collection well and settling tank, sludge pumps including collection wells at basement of admin block and collection well at library, operation of following pumps for 2 shifts/days each of 8 hours duration, .complete as directed by Engineer-In-Charge as detailed in ANNEXURE-1 .				
- 1	Rate shall inclusive of Pumping of Raw sludge from Collection well at NCBS to Collection well of MBBR at Instem				
; ; ; ;	Rate shall be inclusive of ESI,PF,ELI,Bonus other aminities like providing yearly shoes,uniforms etc,. And this shall be documented and department certification must be taken before processing monthly bills. The controller has to note that rate shall be inclusive of all and no extra payment will be made.				
r	a).Item shall be inclusive of working mechanism to recive water from BWSSB time to time.				
s c o n e	D) Item shall be inclusive of maintenace of sewer line conduits, manholes, Grit/oil chambers. Agency shall note that maintenace of sewer line includes clearing of blockages nechanically periodical cleaning of chambers to,extra payment for Such work will not be onsidered.				

S.No	Description of the it			Rate	Amount
D.110	200011ption of the items	Unit	Qty	In Figure & In words	In Figure & In words
	Note - Bill will be paid after submission of ES. & PF details for the workers.	1		III WOTUS	words
	Highly Skilled - 09:00AM to 05:30PM				
	General shift for all campuses				
	Skilled				
	Shift 06:00AM to 02:00PM - 2 No's				
	Shift 02:00PM to 10:00PM - 2 No's				
	Shift 10:00PM to 06:00AM (Night shift for all campus)-1No.				
	FOR MANDARA campus STP and Water supply Skilled Operator-1no				
	For Weekly off - Rotation purpose - 1No				
	Un Skilled				
	Shift 10:00PM to 06:00AM (Night shift for all campus)-1No.				
	Total 1 Highly Skilled + 7 Skilled + 1 Un Skilled	Month	12.00		
	Т	otal Am	ount of	Part - I Rs.	
В.	Part - II:				
1	Part - II: Cleaning of Treated Effluent water tank and other sewage sumps i.e., removal of grit, floating matter and disposing off the same outside NCBS, in an unobjectionable way including cost of necessary labour, transport all as directed by Engineer-In-Charge etc complete as below.				
1	Cleaning of Treated Effluent water tank and other sewage sumps i.e., removal of grit, floating matter and disposing off the same outside NCBS, in an unobjectionable way including cost of necessary labour, transport all as directed by Engineer-In-Charge etc.	No.	3.00		
1	Cleaning of Treated Effluent water tank and other sewage sumps i.e., removal of grit, floating matter and disposing off the same outside NCBS, in an unobjectionable way including cost of necessary labour, transport all as directed by Engineer-In-Charge etc complete as below.	No.	3.00		
1 a	Cleaning of Treated Effluent water tank and other sewage sumps i.e., removal of grit, floating matter and disposing off the same outside NCBS, in an unobjectionable way including cost of necessary labour, transport all as directed by Engineer-In-Charge etc complete as below. Treated effluent tank				
1 a '	Cleaning of Treated Effluent water tank and other sewage sumps i.e., removal of grit, floating matter and disposing off the same outside NCBS, in an unobjectionable way including cost of necessary labour, transport all as directed by Engineer-In-Charge etc complete as below.	No.	3.00		
a 1 b	Cleaning of Treated Effluent water tank and other sewage sumps i.e., removal of grit, floating matter and disposing off the same outside NCBS, in an unobjectionable way including cost of necessary labour, transport all as directed by Engineer-In-Charge etc complete as below. Treated effluent tank Sewage sump at SLC Waste water collection sump/rain water sump				
a 1	Cleaning of Treated Effluent water tank and other sewage sumps i.e., removal of grit, floating matter and disposing off the same outside NCBS, in an unobjectionable way including cost of necessary labour, transport all as directed by Engineer-In-Charge etc complete as below. Treated effluent tank Sewage sump at SLC	No.	8.00		
a 11 b s	Cleaning of Treated Effluent water tank and other sewage sumps i.e., removal of grit, floating matter and disposing off the same outside NCBS, in an unobjectionable way including cost of necessary labour, transport all as directed by Engineer-In-Charge etc complete as below. Treated effluent tank Sewage sump at SLC Waste water collection sump/rain water sump	No.	8.00		



S.No	Description of the items	Unit	Qty	Rate In Figure &	Amount In Figure & In
2	Cleaning the and			In words	words
2	Cleaning the under ground sump of different capacity as below including de-watering, washing with clean waterinclclusive of necessary tools, soap oil / powder etc., complete all as directed by the Engineer-In-Charge.				
2a	8.00 lakh liters capacity (located out side the NCBS Campus at Railway bridge in GKVK Campus one more at CB site Campus)	Nos.	2.00		
2b	4.00 lakh liters capacity (in side the NCBS	Nos.	4.00		
_	Campus)	1105.	4.00		
2c	GL sumps up to 3000 lit capacity	Nos.	2.00		
			2.00		
2d	Rain water collection chambers at various locations in the campus	Nos.	10.00		
	Cleaning the overhead water tanks of NCBS of different capacity including de-watering, washing with clean water with necessary scaffolding/ ladder, tools, etc., at all height complete all as directed.				
3a	For housing	Nos.	12.00		
01 [
3b	For Eastern laboratories	Nos.	8.00		
3c /	Tanks of CCAMP (Syntex Tank)	Nos.	4.00		
3d 8	SCDC Water Tank	Nos.	2.00		
			2.00		
3e S	Syntex tanks and other tanks	Nos.	4.00		
3f S	Syntex Tank and Fire fighting tank and	Nos.	12.00		
	Domestic Tank over NLC.				
Bg [OHRH OHT	Nos.	4.00		
h C	B campus OHT's		0.5.1		
	The state of the s	Vos.	8.00		

S.No	Description of the items	Unit	04	Rate	Amount
	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Onic	Qty	In Figure & In words	In Figure & In words
4	Supply dringking water /Potable water in water tanks of capacity 6000ltrs including pumping it /Discharging it to GLR/OHT's	Nos.	900.00		
	To	tal Am	ount of	Part - II Rs.	
	NOTES:				
1	For Item No. Detail Works lists are enclosed as Anexure-1. The Bidder shall have to consider both A)As briefed in Item no. 1 and B) As per Annexure-1				
i	1. Necessary spares, materials etc., to be ssued by department at free of cost.				
10	2. Compliant if any shall be promptly attended and duly entered and recorded in log books as directed by Engineer-In-Charge.				
10	B. Necessary gate passes / delivery challans or movement of materials shall be obtained in dvance.				
4 b	. All workers safety measures shall be taken y contractors.				
5 si	. Attendance register must be maintained at ite.				
	Total amoun	t of Par	rt - I + Pa	art - II Rs.	
to. T	he Contractor shall quote his rates in this sol		esecution crosses that represent		

Total Amount in words:

Signature of the Contractor:

Date:

Address:





Detailed Breakup- Annexure - F

Schedule- I Breakup

TABLE 'A'

Sl No	Statutory Benefits	% to be collected from employee	% to be collected by the Contractor	Total %
1	PF	12.00	13.36	25.36
2	ESI	1.75	4.75	
3	Bonus	-	8.33*	6.5
4	ELI(Workmen's Comp)	-	3.00	8.33* 3.00
	Total	13.75	29.44	43.19

^{*} The amount of bonus payable is 8.33% subject to maximum of Rs. 7,000/- per annum (the ceiling for calculation purpose from the salary or Wages of Rs. 7,000.00 per month as per Section 2(13) of Bonus Act, 1965 & its amendments.

TABLE 'B'

The current Minimum wages for each of the category to be paid shall be as per table below.

Sr.no	Trade category	Wages p	er day	Remarks	
		Basic	VDA	Total	
1	Unskilled Worker	180.00	188.00	368.00	
2.	Semi-skilled	200.00	207.00	407.00	
3.	Skilled Technician	220.00	228.00	448.00	
4.	Highly Skilled	240.00	247.00	487.00	

The above wages are as per the minimum wages prescribed by Ministry of Labor, Govt. of India with effect from 01/04/2016 and the department approved wages.



SI. No.	Description	Highly skilled Technician	Skilled Technician	Un-Skilled
1	Salary (Basic + VDA)	A	В	C
	Salary ((Basic+ VDA) X 26 days)			
2	2 Conveyance allowances			
3	Accommodation and food allowance, if any			
4	Transport allowance, if any			
5	5 Communication / telephone allowance. if any			
9	6 Risk contingency, if any			
7	7 Uniform, safety shoes, ID cards etc.			
8	8 Washing allowances (minimum shall be Rs. 400/- nm)			
6	9 Contractorssupervision, administrative and overhead expenses finching			
	records, documentation, registers, submission of statement, supervisors, labor license, bank guarantee, tools, equipment etc.) (5% on sl.no 1-8)			
10	10 Contractors profit margin (10 % on sl.no 1-8)			
11	11 Total direct expenditure per month			
	Reimbursable expenditure ner month			
121	12 PF (13.36% on basic + VDA) or restricted to Be 15 000 25 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			
13	13 Bonus 8.33% on basic or Rs. 7000/-, whichever less as per existing norms			
141	14 ESI at 4.75% of Gross Salary except (Washing allowances + Yearly Bonus).			
7.	OK equivalent insurance			
16	16 Servicetax of 14.5% on total direct expenditure indicated at SI No. 11.11			
17	Potel Beimhussett			
	rocal inclinations agree expenditure per month			
1				



Skilled Technician							
	Technician						
Description	Expanditure nor norman /	 19/No. of employees proposed	Bosodová coo ford	20 Total expenditure ner month	mountain bot mount	21 Total direct expenditure on month [Highly Stilled + Stilled + vi. 17.	- A+B+C
SI. No.	18	19		20		21	

Note:

1. Specify designation and experience in the field with level for each column.

2. Please specify and attach separate sheets, if necessary.

3. All efforts have been made to indicate our requirement. However it is the responsibility of the contractor to fulfill the scope of work as per our requirement without any extra cost. Therefore adequate care must be taken before bidding to ensure that all items are covered.

4. In order that the bidders have a clear idea, it is important that the perspective contractors visit NCBS to see the area and work and have discussions before submitting the bids.

Contractor shall quote salary, supervision & admin. Charges, contractor's margin, (Sl. No. 1, 8 & 9 above) and the rest are either percentages of 5. All amounts in Table-B to be indicated in figures. In the event of any discrepancy/erasures only the lowest figure will be considered. The salary or fixed as indicated herein. 6. The Contractor shall supply 2 sets of uniform and one set of safety footwear which consists of safety shoes, socks (minimum two pairs) within a month of award of contact and a fresh set will be issued if the contractor is renewed beyond one year by the 13th month if renewed for 2nd year.

7. The monthly and periodical permia/subscription on all the above shall be paid by the Contractor and the quantum to be paid by the employee shall be collected from each employee by the Contractor or deducted from their salary.

8. Total amount in words:

Date

Signature of the Contractor

Company Seal

ANNEXURE-1 Sheedule of equipments/Plants under AMC-10-16-

S1. No.	Equipment/pump/Machine/ plant	Location	Quantity in numbers	Make	Capacity
		CB Site Campus			200
	Surface Water pumps	CB site - Mandara Hostel Pump house	2	W. L. L.	
	Submersible water pumps	CB site Housing (A, B, C & D block)	8	Kirloskar Kirloskar	10 HP
3	Diesel pump	CB site Fire line	1	Kirloskar	10 HP
	Eletrical pump	CB site Fire line	1	Kirloskar	50 HP
- 1	Jocky pump	CB site Fire line	1	Kirloskar	10 HP
	PLC Control panel	CB site STP	1		
8	Dual Filter media	CB site STP	1	Spx Johnson	
9	Dosing pump	CB site STP	2	Spx Johnson	0.5 HP
10	Back wash pump	CB site STP	2	Grundfos	0.75 HP
11	Filter feed pump	CB site STP	2	Spx Johnson	1.5 HP
12	Sludge pump	CB site STP	2	Spx Johnson	1.5 HP
13 _F	Screw pump Cilter press unit with	CB site STP	1	Primo	2 HP
14	lydraune pump	CB site STP	2	Primo	1 HP
15		CB site STP	2	Hibon	7.5 HP
16		B site STP	3	Grundfos	3 НР
	ollection pump C	B site STP		Grundfos	1 HP
7 F	re tank C	CCAMP Campus			
	12 S S S S S S S S S S S S S S S S S S S	CAMP Overhead tank	1	Sintex	5000 ltr
		CAMP Overhead tank	1	Sintex	10000 ltr
0 Pt		CAMP R.O. water tank	1	Sintex	1000 Itr
		CAMP R.O. water tank entrifugal pump)	1	CRI	1.25 HP



S1. No.	Equipment/pump/Machine/ plant	Location	Quantity in numbers	Make	Capacity
		GKVK Main gate			
21	Pumps of 7.5 HP capacity	8 lakh GLR near railway track near GKVK main gate for supply	3	Kirlosker	7.5 HP
		NCBS & CCAMP			
22	Pumps of 7.5 Hp capacity	4 lakh GLR for various OHTS	4		
		NCBS STP			
23	Pumps of 2 Hp capacity	STP for pumping sewage to oxidation ditch.	3	2no's of Kirlosker, 1no of Crompton Creaves	2HP
24	Sludge pumps of 2 Hp capacity	settling tank for re-circulation of sewage to oxidation ditch/drying beds.	2	Kirlosker	2HP
25	Pumps of 5 Hp capacity	Treated effluent sump at STP for pumping treated water for landscaping purpose	2	Kirlosker	5HP
26	Areation pump	Acration tank	3	Aqua tornado	ЗНР
		Substation			
A	Domestic Pump				
27	Softner plant pumps	New plant room near 4 Lakh litre sump	4	Kirlosker	10HP
3	Plant				
	Softwater treatment plant- (Filiter media,regenaration	New plant room near 4 Lakh litre sump	1	Ion Exchange	30000Lph
		Southern Lab Complex			
1	Domestic Pumps				
29	Submerciable Pumps	basement of SLC	12	12 nos of Ground	10HP
30	Pumps	SLC pump room. (New pump house near 4.0lac GLR)	6	force 6 nos of Kirlosker	2nos of 7.5HP,2nos of
3	Fire fighting Pumps				COMP OF C
		SLC pump room. (New pump house near 4.0lac GLR)	1	Kirloskar	75HP
32	Electrical pump-Hydrant	SLC pump room. (New pump house near 4.0lac GLR)	1	Kirloskar	75HP



SI. No.	Equipment/pump/Machine/ plant	Location	Quantity in numbers	Make	Capacit
	Jockey pump	SLC pump room. (New pump house near 4.0lac GLR)	1	Kirloskar	25HP
34	Deisel pump	SLC pump room. (New pump house near 4.0lac GLR)	1	Cummins	125HP
		SCDC			-
35	Submercible pump	SCDC Basement (one for STP)	2		
36		SCDC Basement (One for rain water)	2	KSB Amaportar Ground fos	
		Eastern Laboratory building			
	Pumps of rain harvesting system	Eastern Laboratory building	7		
38		CIFF	4	Kirlosker	2 nos of 7.5HP, 2 nos
39		Admin Basement	2	Kirlosker	1.02 HP
	1	DHRH Facility			
10 S	ubmerciable Pumps E	Basement sumps	6	Groundfos	10HP

NOTE;-

Manintenace of all equipments invloves its accessories/attached component like Pressure guage, foot vlave 1 ,NRV's,Butter fly valve,rotameter,Gate valve,sluice valve etc,. Complete

- 2 For all equipments standard preventive maintenace to be carried out as per departmental procedures
- 3 Registar for equipment maintenace ,repairs/services, must be maintained

Apart from above equipments if and when added new equipment / machinaries ,shall be treated as part of

Contractor shall ensure all mentioned equipment working in good condition thorught the contact period and if any problem persists, which can not be repaired at site, contractor has to make arrangement for getting repaired from 5 outside and any extra payment towards repairs may be claimed.



Sl. No.	Equipment/Pump/Machine/Pla nt	Location	Quantity in numbers	Make	Capacity
		Instem Campus			
1	Raw sewage relift pumps	STP	2	kirloskar	
2	Air Blower	STP	2	ABB	5 HP
3	Sludge return/relift pump	STP	2	ABB	2 HP
4	Sludge Loading / Disposal pump	STP	2	kirloskar	2 HP
5	Filter feed pumps	STP	2	Xylem	3 HP
6	Hydropneumatic pumps	STP	2	Grundfos	5.4 HP
7	Sludge handling pumps	STP	1	Crompton	3 НР

Note:

- 1. Maintenance of all equipments involves its accessories / attached component like Pressure guage, foot valve, NRV's Butter fly valve, rotameter, gate valve, sluice valve etc., complete.
- 2. For all equipments standard preventive maintenanve to be carried out as per departmental procedures
- 3. Register for equipment maintenance, repairs / services, must be maintained.
- 4. Apart from above equipments if and when added new equipment / machinaries shall be treated
- 5. Contractor shall ensure all mentioned equipment working in good condition through the contract period and if any problem persists, which cannot be repaired at site, contractor has to make arrangement for getting repaired from outside and any extra payment towards repairs may be claimed.

