

Bill Of Quantities	
Name of Work : Sewage Water Treatment Plant for Terna Sahyadri Specialty Hospital at Nerul, Navi Mumbai	
Preamble	
1	The contractor shall be submitting BOQ for the entire scope of work covered under this contract along with submission of offer. The technical specifications and design parameters shall meet tender requirements.
2	The BOQ to be submitted along with offer shall be divided in to various phases as mentioned below.
3	The quoted price for each phases shall be mentioned against each item supported by detailed bill of quantities as mentioned above under serial no1, 2 along with offer.
4	The payment schedule will be phase wise as described below.
5	No payment in full or in parts will be released unless the requisite approval is received by contractor from Project Engineer, for scope of work covered under respective head /phase below.
6	The list of phases mentioned below, is indicative. The contractor is fully responsible for entire design, execution , commissioning, balancing the system successfully including liasoning for obtaining consent to operate from respective authorities. No extra claim of whatsoever nature will be entertained on any account during entire tenure of the contract
7	Retention Money
	The amount equal to 5% of bill value will be deducted from each payment along with other statutory deductions. The 50% of cash retention will be released on commissioning and obtaining consent to operate from competent authorities, on receipt of bank guarantee of equivalent amount. The bank guarantee and balance amount of 50% as cash retention will be released on successful completion of defects liability period including for any extended part thereof.
8	All inclusive rates
	The rates quoted by contractors shall be inclusive of all taxes, duties etc as applicable at the time of award of contract. Any revision in taxes etc will be either paid or recovered during the entire period of contract.
9	The successful completion of defects liability period will be considered achieved, when during the defect liability period, the system achieves minimum 85% of times the designed parameters of system. Failure to which, will extend the defects liability period for equivalent period the system performance was below 85% of designed performance.
10	It will be entire responsibility of contractor to provide operations and maintenance during defects liability period, free of charge.
11	Water and electricity required for works will be provided at one nearest point on chargeable basis. The water and electricity charges will be equal to 1% of total contract value.
12	It is considered that contractor has visited the site and is being familiar with site conditions before quoting for the works.

Sl. No	Description	Unit	Quantity	Rate in Rs.	Amount in Rs.
Phase 1	Mobilization Advance	Set		10% of contract value	
Phase 2	Various Design stages during process				0
	a) Schematic design including sizing of system, layout drawings	set			
	b) Design development and submission of GFC drawings for entire system for process	set			
	c) Submission of civil design requirements for approval of Project Engineer and submission of final design including bill of quantities	set			
	d) Submission of electromechanical coordinated drawing for approval of Project Engineer	set			
	Sub Total amount				
	Add: Taxes and Duties				
	Total Estimated Amount at the end of Phase 2				
Phase 3	Execution stages during process				0
	a) Estimated cost of civil works. To be executed by specialized civil contractor. The civil works cost will be directly paid to civil contractor by Project Engineer	set			
	Mark up in % over value of civil works. This shall be paid as per progress of construction works as per running account payments to civil contractor. This mark up is paid to STP contractor for providing necessary site facilities required by civil contractor including execution supervision and towards coordination charges.	%			
	b) Estimated cost of electromechanical works including mechanical, fabrication, electrical, process equipment's, etc as required including connectivity at battery limit. The works shall be directly executed by STP contractor	set			
	c) Commissioning of STP. This shall include cost of media, chemicals etc as required to successfully commissioning.	set			
	d) Balancing of STP and verification of performance of system against design parameters agreed upon during awarding contract and as mentioned in tender document	set			

Sl. No	Description	Unit	Quantity	Rate in Rs.	Amount in Rs.
	e) Successfully operating the plant during initial operating maintenance stage to meet uptime requirements mentioned in tender document.	set			
	Sub Total amount				
	Add: Taxes and Duties				
	Total Estimated Amount at the end of Phase 3				
Phase 4	a) Submission of operating and maintenance manual after commissioning and balancing of system including training Project Engineers/ operating team for duration as mentioned in tender specifications.	set			0
	b) Assisting Project Engineers to obtain consent to operate from respective approving authorities.	set			0
	c) Operation and Maintenance contract for duration of 3 years, to be reckoned from date of handing over by Project Engineer	month			0
	d) Defects Liability Period	Year	No Cost to be paid		
	e) 1st year, to be measured from date of successful completion of defects liability period- chemical+ manpower cost	Year			0
	f) 2nd year	Year			
	g) 3rd year	Year			
	Sub Total amount				
	Add: Taxes and Duties				
	Total Estimated Amount at the end of Phase 4				
	Total Estimated value of work inclusive of all taxes and duties				0

In word : Rs

Estimated costs	in Rs/KLD
Capex per KLD	
Opex per KLD	