

CALL FOR TENDER

Last Date to submit BOQ – 28<sup>th</sup> June, 2024

Kindly submit the quotation on the mentioned email address –

Email ID – [admin@guruja.org](mailto:admin@guruja.org)

BOQ (VENDOR COPY)

BOQ							
		Project Name: Construction of Wastewater Treatment Plant and Development of Pond; Location: BSF, Bhondsi, Gurugram, Haryana Division & Block: Gurugram					
S.No.	Reference Doc	Item Code	Description of Items	Unit	Qty	Rate	Amount
<b>A</b>			<b>Survey</b>				
1.A	IS 11134	NA	Conducting Topographical Survey & Detailed contour Survey Work Xebia Ahlawat Pond Site at BSF Bhondsi with 'Total Station' equipment showing all existing features, namely, Drains, structures and trees and taking spot levels at an interval of 0.05m., fixing of bench Mark (BM) at the proposed site & preparation of drawing in AUTOCAD format and supplying of drawing in tracing paper with THREE hard copies of drawing along with TWO softy copies on PEN DRIVE. for every RA Bill it is required to submit the Level sheet either for land or structure.	Each	4		
<b>B</b>			<b>Excavation, Cleaning and Grubbing</b>				
1.B	HSR 2021 & IS: 1200-1 (1992)	4.15	Earth work in excavation by mechanical means (H Compaction work after excavation should achiev mechanical roller over areas including getting ou upto 50 m and lift upto1.5 m, including dressing getting out, stacking the excavated soil up to dista in-charge.				
1.1.B			A) 0.00 - 1.00 m Depth	Cum	870		
1.2.B			B) 1.00 – 3.00 m Depth	Cum	695.3		
2.B	HSR 2021	4.4	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m. All kinds of soil	Sqm	489		
3.B	HSR 2021	4.6	Extra for levelling & neatly dressing of disposed soil completely as directed by Engineer-in-charge.	Sqm	1012		
<b>C</b>			<b>Concrete Work</b>				
			Concrete Grade M25				

1.C	HSR 2021 & IS 9103 & IS 2001	6.24	<p>Providing and laying in position M-25 grade reinforced cement concrete machine batched, machine mixed, and machine vibrated design mix cement concrete of specified grade with minimum cement content of 300 kg per cum of concrete and water cement ratio not more than 0.5 for reinforced cement concrete structural elements including centering formwork with shuttering ply &amp; steel plates, compacting with vibrators, placing &amp; fixing inserts, formation of cutouts, chases etc. as per detail drawing excluding the cost of reinforcement but including adding admixtures in recommended proportion ( as per IS 9103 ) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, vibrating, Pumping and placing of boomer and necessary finishing, curing, haking of surface to form key wherever plaster is to applied etc., complete at all levels and heights etc complete as per direction of the Engineer-in-charge. (Mix design details to be got approved before commencement of the work)</p> <p>Note : The Quote to be made considering the quantity of cement to be used as per practical condition to attain M25 grade, which should not be less than the minimum Quantity specified. No extra payment will be considered for using additional cement in this regard.</p>	Cum	126		
			PCC				
2.C	HSR 2021 & IS 456 & IS 2001	6.1	<p>Providing and laying in situ Plain Cement Concrete 1:3:6 of trap metal and crushed sand for foundation, floor bedding etc. including dewatering, formwork, compacting and curing &amp; placing etc. complete at all depths. Rate shall include concrete brought from RMC plant or batching plant installed on site or outside site premises by contractor.</p>	Cum	22		
3.C	HSR 2021 & IS 9103 & IS 2001	6.2	<p>Providing and laying in situ Reinforced Cement Concrete grade M20 of trap metal and crushed sand for foundation, floor bedding etc. including dewatering, formwork, compacting and curing &amp; placing etc. complete at all depths. Rate shall include concrete brought from RMC plant or batching plant installed on site or outside site premises by contractor. For Top Slab of existing tank</p>	Cum	1.00		
4.C	HSR 2021 & IS 2001	6.33	<p>Supply, Fabricating &amp; fixing in position Reinforcement Steel for RCC work with Thermo mechanically Treated (TMT) bar of various diameters and grade of steel as specified below conforming to IS specification including cutting, ,</p>				

			bending, hoisting, fabricating and placing in position at all heights & levels according to drawings and binding the reinforcement with GI annealed binding wire in two strands of 18 gauge and providing PVC / cement mortar cover blocks for placing the reinforcements in position and for maintaining the cover specified and/or according to relevant IS. Note: Reinforcement shall be measured only in lengths of bars as actually placed in position on standard weight basis, no allowance being made in the weight for rolling margin. Authorized laps and splices, chairs of any shape & profile, Spacer bar of any shape & profile only will be measured and paid. Cover block, wastages and binding wire shall be included in the quoted rate and to include lead, lift, placing at all levels and as per the approved bar bending schedule etc all complete				
			a) TMT bars of grade Fe-500 conforming to IS - 1786/85				
			Make -Tata, Sail, JSWor Equivalent	Kg	4067		
5.C	HSR 2021 & HSN 7610	6.29	Centering and shuttering including strutting, propping etc. and removal of form work for : Foundations, footings, bases for columns ,Retaining walls, return walls, walls (any thickness).	Sqm	250.7		
6.C	HSR 2021	B1443 & PH169	Providing and fixing in position pre-cast R.C.C. m required shape and approved quality Rectangular dimensions	each	7		
<b>D</b>			<b>Miscellaneous</b>				
1.D	Market Rate		Providing and installing 200 Lt Water tank with base construction through excavation, ramming and 50mm thick PCC of M10 grade.	each	1		
2.D	HSR 2021 & IS 1077	7.20	Brick work with common burnt clay modular bricks of class designation 7.5. Cement Mortar 1:6 (1 cement: 6 coarse sand).	Each	3000		
3.D	Market Rate		Repair in existing tank if required with concrete and grouting for honey combing and maintaining the leakage and for better quality of tanks.	Cum	50		
4.D	Market Rate		Providing and installing of Aerobic Bio digestion with PVC Pipe, two Nos manhole cover make: brick work with 1:6 mortar and 1:4 plaster work inner Dimension of 3.5x11.2x3 with two separation wall and 2 Nos man hole	each	1		

5D	Market rate		Providing and construction of Screen chamber with Carbon Steel or stainless screen with 45-degree angle of inclination with opening 50mm or more. With CC work for fixing of the screen chamber	each	3			
6D	Market Rate		Providing and supplying of 2HP air blower and motor with 14440 RPM motor of SS or Cast iron make with aeration grid and tube Fine bubble type diffusers 6 no's along with CPVC pipe of 1-to-2-inch Dia	each	1			
7D	NS Item		Providing and fixing of AWLR with solar panel and backup battery	Each	1			
7E	NS Item		Chemical for disinfection within polishing mini pond	Each	40			
TOTAL AMOUNT (including taxes)								

Estimate for the work, "Landscaping work for BSF Pond at Bhondsi"								
Sl. No.	Reference Doc	Item code	Item	Unit	QTY	RATE	AMOUNT	REMARKS
			Excavation for Plantation					
	HSR 2021	4.14	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.					
		4.14.1	All kinds of soil					
		a)	Excavation for fencing	cum	32			
			Pathway Flooring					
	DSR 2021	10.4	Providing and fixing of 40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1 :5 (1 cement: 5 coarse sand), including pointing with cement mortar 1 :2 (1 cement: 2 stone dust) with an admixture of pigment to match the shade of stone.					
		10.40.1	Red sandstone					
		a)	Pathways	sqm	163.20			
		b)	Gazebo	sqm	27.00			

	10.41	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	RM	51.0 0			
		MS Gate					
	13.28	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	65.8 3			
	11.78	Painting two coats excluding priming coat with synthetic enamel paint in all shades on new wood work or metallic or plastered or concrete surfaces to give an even shade.	sqm	10			
	12.6	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement: 3 coarse sand: 6 graded stone aggregate 20mm nominal size).	Each	4			
		PCC Work					
HSR 2021	15.8	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical 1500, 1700 and 2000 of MORT&H Specifications.					
	15.8.1	PCC Grade M15					
	a)	Footing for Fencing 300x300x500	cum	10			
	b)	75mm thk. P.C.C. Bed below footing for fencing	cum	3			
		Brick Edging & Paving for Footpath					
	21.15	First class flat brick paving or flooring laid over and in lime mortar in ordinary bonded courses or in herring bone or other special courses, to templates over dressed foundation and to correct longitudinal and cross slopes as shall be required by the engineer-charge. All joints shall be filled with mortar and struck flushed as the work proceeds.	10 sqm				
	21.19	First class brick on edge paving or flooring laid over and in Cement sand mortar 1 :6 laid as described in item No. 21.15	10 sqm	20.6 0			
		Gravel Pathways					
DSR 2021	23.6	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in overall thickness of 100mm in the pathway bordered with brick on-edge paving, over well compacted layers of boulders, in required thickness, for all					

			leads & lifts, all complete as per direction of Engineer-in-charge.					
		a)	Pathway Flooring	cum	49.20			
		b)	Seating	cum	9.30			
			Landscape & Horticulture Works					
	HSR 2021	26.1	Supplying and stacking at site of work well-decayed farm-yard manure from any available source, approved by the Engineer-incharge including screening through sieve of LS.designation 16 mm with 5 km lead.	cum	207.38			
		26.2	Supplying and stacking of good quality top layer garden earth free from debris and weeds, at site including royalty and carriage/lead 5 km (good earth measured in stacks will be reduced by 20 % for payment) only for filling of pots and flower beds .	cum	241.13			
		26.3	Supplying at site good earth /soil-less media and/ or organic matter, preparation of top dressing mixture or pot media					
		26.3.6	Spreading of sludge, farm-yard manure or/and good earth in required thickness (Cost of sludge, farm-yard manure or/and good earth to be paid for separately)	cum	448.51			
		26.3.7	Mixing earth and sludge or farm yard manure in proportion specified or as directed.	cum	448.51			
		26.4	Site Clearance					
		26.4.2	Surface dressing of ground including removing rank vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m in all kind of soils .	sqm	791.00			
		26.4.9	Trenching in ordinary soil up to a depth of 60 cm including removal and stacking of serviceable materials and then disposing of surplus soil, by spreading and neatly levelling within a lead of 50 m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or / and manure before and after flooding trench with water excluding	cum	514.80			

		cost of imported earth, sludge or manure).					
	26.4.1 0	Rough dressing the trenched ground including breaking clods.	100 sqm	8.58			
	26.4.1 1	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	sqm	858. 00			
	26.4.1 2	Fine dressing of the ground.	sqm	1489 .00			
	26.5	Making lawns with rough grassing including uprooting rank vegetation and weeds by digging area to a depth of 30 cm, removing all weeds and other growth with roots by forking repeatedly, ploughing and dragging with 'swagha' breaking of clods, removal of rubbish, dressing and supplying doob grass roots, and planting at 15 cm apart, including supplying and spreading of farm-yard manure at the rate of 0.18 cum per 100 sqm fertilizers etc					
	a)	Lawns	sqm	631. 00			
	b)	Stepping Stone Pathway	sqm	40.8 0			
	26.13	Digging holes in all kinds of soil, and refilling the same, with the excavated earth, mixed with well decayed farmyard manure (cost of well decayed farm yard manure to be paid separately)					
	26.13. 6	Digging of pits in all kinds of soil & refilling the same, with the excavated earth mixed with well decayed farm yard manure @ 30% of pit volume and insecticide for termite control (Excluding cost of FYM and Insecticide.)	cum	58.2 8			
DSR Horticulture 2020	2.57	Plantation of Trees, Shrubs, and Hedge at site i/c watering and removal of unserviceable material's as per direction of officer in charge (excluding cost of plant & water)					
	2.57.1	Trees	each	29.0 0			
	2.57.2	Shrubs	each	43.0 0			

	2.57.3	Ground Cover	each	4530 .00			
HSR 2021	26.34	Planting permanent hedges including digging of trenches, 60 cm wide and 45 cm deep, refilling the excavated earth, mixed with farmyard manure, supplied at the rate of 1.62 cum per 18 sqm, DAP 0.6kg, Chlorpyriphos 20%EC@ 0.20 litre per 18 sqm and supplying and planting hedge at 30 cm apart in two rows @ 202 no. well trimmed bushy ,multi-branched ,30cm to 45 cm in height plants to be supplied in 15 cm x 15 cm poly bags per 18 sqm	sqm	327. 00			
	26.55	Edging of paths/ beds with bricks/tiles laid dry, including required excavation, refilling, consolidating with hand and spreading neatly surplus earth within a lead of 50 meters					
	26.55. 1	Bricks laid lengthwise with half brick depth	RM	200. 00			
		Ground Covers					
	26.33 1	Providing and stacking of <i>Ophiopogon</i> , Green full of leaves in 10 cm size of Earthen Pot/ Plastic Pot & as per direction of the officer-in-charge	Each	1360 .00			
	26.33 6	Providing and stacking of <i>Setcreasea purpurea</i> full of variegated leaves in 15 cm size of Earthen Pot/Plastic Pot as per direction of the officer-in-charge.	Each	910. 00			
	26.34 3	Providing and stacking of <i>Wedelia trilobata</i> , full of leaves in 15 cm size of Poly bags & as per direction of the officer-in-charge.	Each	2260 .00			
		Tree Plants					
	26.35 2	Providing and stacking of <i>Bombax ceiba</i> (Semal) of height 150-165 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.	Each	4.00			
	26.35 6	Providing and stacking of <i>Butea frondosa</i> (Flame of Forest/ Dhak) of height 60-75 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.	Each	5.00			
		Shrubs					
	26.48 7	Providing and stacking of <i>Nyctanthes arbor-tristis</i> (Hasingar) of ht. 90-105 cm in Polybag of size 20 cm as per direction of the officer-in-charge.	Each	8.00			
		Garden Benches					



	26.58.2	Rectangular garden bench with h-shaped sides made of reinforced concrete (M30), thickness 100 mm, back height 750 mm, base width 450 mm. Back and seat shall consist of rectangular reinforced concrete planks 1500 mm x 350 mm x 50 mm. Seating height of the bench shall be 450 mm. The bench shall be fixed with nuts on concrete mount, all holes sealed after assembly and installation. All materials required to be as per BIS specifications.	Each	10.00			
	26.58.3	Cast Iron bench of 1800 mm length, 900 mm width, 450 mm seating height, sides made of cast iron. Seat and back shall be made of 10 strips of M.S. pipes 63 mm x 25 mm of 14 gauge with one M.S. Flat 25 x 10 mm welded at the centre, below and back of the seat and back rest. Spray painted with approved brand paint. Fixed by grouting with 1:2:4 cement concrete (Minimum weight of each bench 105 kg). All materials required to be as per BIS specifications.	Each	2.00			
		Bio-Swale					
	35.11	Geotextile Filter: Laying of a geotextile filter between pitching and embankment slopes on which pitching is laid to prevent escape of the embankment material through the voids of the stone pitching/ cement concrete blocks as well as to allow free movement of water without creating any uplift head on the pitching.	sqm	131.00			
DSR 2021	16.64	Providing and laying 75mm thick compacted bed of dry brick aggregate of 40mm thick nominal size including spreading, well ramming, consolidating and grouting with jamuna sand, including finishing smooth etc. complete as per direction of Engineer-in-charge.	sqm	225.00			
		Fencing					

	HSR 2021	34.29.3	Fencing With Welded Steel Wire Fabric 75 mm x 50mm: Providing 1.20 metre high fencing with angle iron posts 50 mm x 50 mm x 6 mm at 3 metre centre to centre with 0.40 metre embedded in M15 grade cement concrete, comer, end and every 10th post to be strutted, provided with welded steel wire fabric of 75 mm x 50 mm mesh or 75 mm x 25 mm mesh and fixed to iron posts by flat iron 50 x 5 mm and bolts etc. complete in all respects. i) Adopt any one type of welded steel wire fabric 75 x 50 mm or 75 x 25 mm as per approved design. ii) The item of excavation and cement concrete in foundation shall be measured and paid separately.				
		a)	Fencing around Site	RM	458.00		
		b)	Fencing around main pond	RM	138.00		
		c)	Fencing around WWTP	RM	84.00		
	Non-Schedule Items		Trees Plant				
			Acacia catechu (Khair)	Each	3.00		
			Prosopis cineraria (Jhand/ Shami) - Small sized	Each	3.00		
			<i>Crateva relegiosa</i> (Barna)	Each	9.00		
			<i>Cordia dichotoma</i> (Gunda)	Each	5.00		
			Shrubs				
			<i>Vitex negundo</i> (Sambhalu) -17cm polybag	Each	15.00		
			<i>Flacourtia indica</i> ( Bilangada) -17cm polybag	Each	10.00		
			<i>Justicia adhatoda</i> (Malabar nut)	Each	10.00		
			Grasses				
			Vetiver (Khus grass) -Medium	Each	1000.00		
		Landscape Lighting					

		Supply and installation of Standard Single Bracket Octagonal street lighting poles of 3 m height suitable for operation at outdoor site conditions of min. 2 mm steel thickness, including supply and installation of inbuilt marshalling box and necessary wire/ cable running from marshalling box to the lighting fixture, cable termination and connection, fixing of cable glands and lugs, including all civil works, excavation, foundation, disposal of surplus earth, providing shoring, strutting and including supply of cement, steel, GI pipes, base plates, paint and all sundry materials as required, including painting, including all labour and materials, as per IS/ CPWD specifications, other relevant codes & standards, approved drawings, specifications of this tender and directions of Engineer-in-Charge.	Each	10.00			
		Bamboo Gazebo: Supplying assembling and installation of Octagonal/ Hexagonal shaped Gazebos made with high quality durable Bamboo material as per approved design with bamboo roofing, having minimum size of 4.5m x 4.5m and 3m high, including all tools and tackles etc., all complete as per the instructions of engineer-in-charge.	Each	1.00			
		Civil work for the base of the Bamboo Gazebo.	Each	5 cum			
		RCC/ Brick Pillar for entrance gate.	Each	2.5 cum			
		Gunny sheets of 12-15 mm thickness for embankment development	Each	54 per meter			
TOTAL AMOUNT (including taxes)							