

राजस्थान सरकार

स्वायत्त शासन विभाग जयपुर

(जी.3, राजमहल रेजीडेन्शियल एरिया, सिविल लाईन फाटक, 22 गोदाम, सी-स्कीम जयपुर-302015)
टेलीफैक्स.0141-2222403, ईमेल-dlbrajasthan@gmail.com वेबसाईट www.lsg.urban.rajasthan.gov.in

क्रमांक: - 274-367

दिनांक 21-2-17

आयुक्त/अधिशायी अधिकारी,

नगर निगम/परिषद्/पालिका,

विषय :- फायर स्टेशन निर्माण हेतु निविदा प्रक्रिया प्रारम्भ करने बाबत।

राज्य में अग्निशमन सेवाओं के सुदृढीकरण के लिए प्रत्येक नगरीय निकाय मुख्यालय पर एक फायर स्टेशन के निर्माण का निर्णय लिया गया है। आपके निकाय में भी वर्तमान में फायर स्टेशन निर्मित नहीं है। नवीन फायर स्टेशन के निर्माण के लिए निदेशालय स्तर पर एक टाईप डिजाईन एवं मॉडल एस्टीमेट बनाया गया है (प्रति संलग्न)। टाईप डिजाईन के अनुसार 20 X 24 आकार का दो वाहन खड़े करने लायक एक गैराज निर्माण किया जाना है। उसी में भीतर अण्डरग्राउण्ड वाटर टैंक एवं वाटर पम्प की व्यवस्था की जानी है एवं इस गैराज के उपर एक कन्ट्रोल रूम, अग्निशमन स्टाफ के लिए एक रेस्ट रूम एवं एक शौचालय का निर्माण किया जाना है। प्रत्येक फायर स्टेशन पर टेलिफोन एवं कम्प्यूटर की व्यवस्था भी की जानी है। इस प्रकार के निर्माण के लिए लगभग 24 लाख रुपये का व्यय आना सम्भावित है।

अतः आप संलग्न टाईप डिजाईन एस्टीमेट के अनुसार अपने स्तर पर शीघ्र निविदा आमंत्रित कर निर्माण कार्य प्रारम्भ करावें। इस हेतु आवश्यक धन राशि आपको शीघ्र ही स्थानान्तरित कर दी जावेगी। इस संबंध में की गई प्रगति की सूचना प्रत्येक माह की 1 तारीख एवं 16 तारीख को उप निदेशक (प्रशासन), निदेशालय को मेल पर भिजवाना सुनिश्चित करें।



(पवन अरोड़ा)

निदेशक एवं संयुक्त सचिव

Name of work :- Construction of Fire station.

FORECAST ESTIMATE

BASED ON RUIDP SoR-2013

SR NO	DESCRIPTION	Qty.	UNIT	RATE	AMOUNT
PART -A BUILDING WORK					
1	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to a lead of 50 metres from road boundary including removal and disposal of top organic soil not exceeding 150 mm in thickness as directed by Engineer. In area of light jungle	53.53	Sqm	5.12	274.08
2	Earth work in excavation in foundation, trenches etc. including dressing of sides and ramming of bottoms, including getting out the excavated material, refilling after laying pipe/ foundation and disposal of surplus excavated material at a lead upto 50m suitable site as per direction of Engineer for following depths, below natural ground / Road top level. In all types soils/ saturated soil such as moorum, sand, sandy silt, clay, black cotton soil, kankar, etc. Depth upto 1.5 m	59.84	cum	169.00	10 112.13
	Outer walls				
	Stair foundation				
	UG water tank				
3	Carriage of materials by manual labour including loading, unloading and stacking for lead less than 0.5 Km. Earth	47.87	Cum	38.06	1 821.86
4	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level :1:3:6 (1 Cement : 3 fine/ coarse sand : 6 graded stone aggregate 40 mm nominal size).	9.94	cum	3 480.00	34 607.87
	Walls				
	UG water tank				
	Stair foundation				
	Outer ramp				
5	Random rubble masonry with hard stone in foundation and plinth :Cement mortar 1:6 (1 cement ; 6 coarse sand)	29.48	cum	2 780.00	81 955.69
	1st step				
	2nd step				
	3rd step				
	4th step				
6	Earth filling with available surplus soil excavated from foundations and taken only from outside of building plinth in layers not exceeding 20cm in depth, consolidating each deposited layer including ramming and watering and consolidation with lead up to 50m and lift upto 1.5m.	26.00	Cum	95.50	2 483.15

7	Diluting and injection Chloropyrifos Emulsifiable concentrate 20% with 1% concentration for PRE-CONSTRUCTIONAL Anti termite treatment as per IS 6313 part III as amended from time to time and creating a continuous chemical barrier under and around the column pits, wall trenches, basement excavation, top surface of plinth filling, junction of wall and floor along the external perimeter of building expansion joints, over the top surface of consolidated earth of which approach is to be laid surrounding of pipes and conduits etc. complete as per specification (Plinth floor area only shall be measured for payment and excluding the cost of chemical emulsion).	44.61	Sqm	171.00	7628.25
8	Random rubble dry stone Kharanja (soling) under floor.	10.19	cum	1007.00	10263.87
9	Centring and shuttering upto two stories or height upto 7.5 metre above plinth level including strutting, propping etc. and removal of form for :Foundations, footings, bases of columns, etc. for mass concrete.	5.02	Sqm	167.00	838.10
	Footing				
	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	87.83	Sqm	336.00	29509.29
	UG tank rcc wall				
	OH tank rcc walls				
	OH tank rcc walls				
	Suspended floors, roofs, landings, balconies and access platform.	124.35	Sqm	364.00	45263.20
	GF slab & FF slab				
	GF Beam & FF Beam				
	Columns, Pillars, Piers, Abutments, Posts and Struts.	92.22	Sqm	385.00	35503.37
10	Reinforcement for R.C.C. work at all levels including straightening, cutting, bending, placing in position and binding all complete. Thermo-Mechanically Treated bars.	4500.00	Kg	64.50	290250.00
11	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level : 1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size). (As per design mix)	15.86	cum	4930.00	78200.24
	Footing				
	DPC				
	Stair foundation				
	UG water tank				
	UG water tank rcc wall				
12	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. upto two stories excluding cost of centring, shuttering, finishing and reinforcement : 1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size) (As per design mix)	7.02	cum	2250.00	36942.49
	Columns				

S B

13	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto two stories excluding the cost of centring, shuttering, finishing and reinforcement: M-25 Grade Concrete (1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size) -As per design mix)	28.76	cum	5380.00	154746.88
	GF Slab				
	FF Slab				
	GF Beam				
	FF Beam				
	Water tank slab				
	OH tank top & bottom slab				
	OH tank rcc walls				
14	Brick work with bricks of class designation 75 in superstructure above plinth level upto two stories in all shapes and sizes in :Cement mortar 1:6 (1 cement : 6 coarse sand)	31.26	cum	3880.00	121277.46
	Outer walls				
15	Half brick masonry with bricks of class designation 75 in superstructure above plinth level upto two stories. Cement mortar 1:4 (1 cement : 4 coarse sand)	40.88	Sqm	480.00	19620.96
	First floor				
16	Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry.	40.88	Sqm	68.50	2800.07
17	62 mm thick cement concrete flooring with concrete hardener topping under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6mm nominal size) by volume. Hardening compound is mixed @ 2 litre per 50kg of cement or as per manufactures specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc.	66.89	Sqm	469.00	31304.35
	Inner				
	outer ramp				
18	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :25 mm thick.	44.59	Sqm	969.00	43210.70
19	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	23.41	Sqm	695.00	16270.90
20	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	7.80	Sqm	2080.00	16231.88



21	Polishing on wood work with ready mixed wax polish of approved brand and manufacture :New work	17.56	Sqm	73.00	1 281.77
22	Providing and fixing bright finished brass handles with screws etc. complete :100 mm	8.00	each	129.00	1 032.00
23	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality).	4.00	each	519.00	2 076.00
24	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required in gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	500.00	Kg	89.50	44 250.00
25	Cement plastering including T&P, scaffolding, material and complete labpour, including cost of water, curing, racking of joints etc. with 12 mm cement plaster of mix:1:4 (1 cement : 4 fine/ coarse sand)	488.29	Sqm	134.00	65 431.44
	GF walls				
	FF walls				
	Parapet				
26	Neat cement punning	488.29	Sqm	34.50	16 846.15
27	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade. New work (two or more coats) over and including priming coat with cement primer.	577.48	Sqm	81.00	46 775.92
28	Structural steel work in single section fixed with or without connecting plate including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	700.00	Kg	65.00	45 500.00
PART -B TUBE WELL					
29	Construction of tube-well from ground levels and upto 100 Meter depth and above to accommodate housing and assembly pipe of following sizes in all types of alluvium strata by percussion/ rotary drilling method and with gravel as per IS:4097-1967 and packing as per IS:2800 (Part I -& II) 1979 as amended upto date (the work includes the cost of gravel & its primary packing and packing during development, lowering of housing & strainer assembly pipes, with supply and wrapping of coir-rope, wherever necessary for arresting fine sand particles. The work will not include cost of housing pipe and strainer pipe assembly and development work, but work would be completed after obtaining sand free water).200 mm dia Nominal bore	50.00	Metre	264.00	13 200.00
30	Construction of Tube-well upto 100 Meter depth and above in all type of rocks by DTH system and over burden to accommodate casing pipe of following sizes in all types of soils and over burden including lowering of casing pipes but excluding cost of casing pipes as per IS : 2800 (Part I & II) 1979 specifications. The work would be completed after obtaining sand free water. The tube well should have a throughout bore as per nominal dia of casing pipe:200 mm dia Nominal bore	100.00	Metre	825.00	82 500.00

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31	Development of tube well as per IS specification using suitable compressor to give sand free water for required yield of the gravel packed tube well.	15.00	Hour	495.00	7 425.00
32	Supply of ERW M.S. black casing pipe ISI marked (IS: 4270/1992) of grade Fe410 of following nominal bore sizes at site of work.200 mm dia	40.00	Metre	1 570.00	62 800.00
33	Supply of strainer pipes made of ERW M.S. black pipe ISI mark of following sizes at the site of work including required size of slotting as per IS:8110-1985 of following nominal bore sizes at site of work.200 mm dia	10.00	Metre	1 820.00	18 200.00
34	Testing verticality of tube-well by plumbing system and yield test and draw down test by pumping system as per IS: 2800 (Part II) 1979.	1.00	each	6 963.00	6 963.00
35	Supply and fixing of tube well cover of M.S. sheet (6mm thick) with nuts and bolts complete for casing size:200 mm dia	1.00	each	308.00	308.00
36	Supply and fixing of M.S. clamp set of 50 x6mm flat iron with nuts and bolts etc. for holding the riser pipe assembly of submersible pump set.	10.00	each	220.00	2 200.00
37	Installation of submersible motor pump set in tube-well/open well complete (labour charges only) including transportation of tripod, chain pulley block & any other material required for lowering purpose.	1.00	each	3 080.00	3 080.00
38	Providing & lowering of G.I. flange pipe B Class including rubber washer and nuts of 8 mm dia complete in all respect.75 mm dia	120.00	Metre	533.00	63 960.00
PART -C BOUNDARY WALL					
39	Earth work in excavation in foundation, trenches etc. including dressing of sides and ramming of bottoms, including getting out the excavated material, refilling after laying pipe/ foundation and disposal of surplus excavated material at a lead upto 50m suitable site as per direction of Engineer for following depths, below natural ground / Road top level. In all types soils/ saturated soil such as moorum, sand, sandy silt, clay, black cotton soil, kankar, etc. Depth upto 1.5 m	71.35	cum	169.00	12 057.76
40	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level :1:3:6 (1 Cement : 3 fine/ coarse sand : 6 graded stone aggregate 40 mm nominal size).	6.73	cum	3 480.00	23 410.19
41	Random rubble masonry with hard stone in foundation and plinth :Cement mortar 1:6 (1 cement : 6 coarse sand)	66.25	cum	2 780.00	1 84 178.94
42	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	33.44	sqm	247.00	8 260.87
43	Random rubble masonry with hard stone in foundation and plinth :Cement mortar 1:6 (1 cement : 6 coarse sand)	40.35	cum	2 780.00	1 12 160.25
44	Extra for random rubble masonry with hard stone in superstructure above plinth level and upto two stories.	40.35	cum	496.00	20 011.33
43	Extra for random rubble masonry with hard stone in : Square or rectangular pillars	7.64	cum	324.00	2 476.78

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44	Providing and laying cement concrete in retaining walls return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. upto two stories, excluding the cost of centring, shuttering and finishing : 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	1.39	cum	4 490.00	6 236.20
45	Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) : Raised and cut pointing	211.82	sqm	221.00	46 811.59
	Total Amount				19 70 275.92
	Add for electrification @ 5%		Lump		98 513.80
	Add for sanitary @ 3%		Lump		59 108.28
	Add lump-sum amount for Telephone & Computer facility		Lump		40 000.00
	Add lump-sum amount for fire equipment as per CFO guidance		Lump		1 00 000.00
	Add lump-sum amount for furniture etc.		Lump		25 000.00
	Add lump-sum amount for Hydrants/ pump/ motor etc.		Lump		1 36 200.00
	Net Amount				24 29 097.99
	Total Round Off				24 30 000.00

- 1 Above estimate for the work of "Construction of Fire station" is prepared in reference of letter from DDA,DLB no. 96 dt. 06.01.2017 and as per discussion & directions given by DDA,DLB on dt.10.01.2017
- 2 The above estimate is treated as forecast estimate. Design, drawing and detail estimate shall be prepare before execution of above work as per site condition.
- 3 The design & drawing of work should be checked & approved from MNIT/ MBM engineering college jodhpur.
- 4 In case of any discrepancy regarding rates, the relevant SoR shall be referred.
- 5 Before starting the work, necessary approval & consultation from experts of the relevant field shall be obtain.
- 6 The detail regarding equipments of fire station shall be consult with relevant officer before execution of work.




