

Rajasthan Urban Sector Development Investment Program  
 ADB LOAN No. 2366 - IND  
 Bid Invitation Number : RUIDP/NCB-IR/01  
 Price Bid Evaluation of Package No. JSL/DR-01  
 Name of Work : Construction of new drains and minor  
 Engineer's Estimate: Rs. 490 Lacs  
 Price Bid Evaluation

S.No.	Particulars	Engineer's Estiamte					3/3 Offshore Infrastructures Ltd.			% Variation of Lowest from Engineer's
		Unit	Quantity	Unit Rate	Amount	% of works	Unit Rate	Amount	% of works	
1	2	3	4	5	6 = 4 x 5	7				
	<b>Part-A</b>									
	<b>Section-1: Construction of New Drains in Jaisalmer</b>									
1	Clearing Grass and Removal of Rubbish (Maximum 150mm) by manual means and disposal at a lead of 50 metres as per MoRT&H specification clause 201.	Hectare	3.77	5,436.00	20,493.72	0.04	6480	24,429.60	0.05	19.21
2	Earth work in excavation in foundation, trenches manholes, road side chambers 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									
	Depth upto 1.5m	m <sup>3</sup>	40600	69.00	2,801,400.00	5.77	70	2,842,000.00	5.37	1.45
	Depth 1.5m to 3.0 m	m <sup>3</sup>	13103	79.00	1,035,137.00	2.13	80	1,048,240.00	1.98	1.27
3	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of un	m <sup>3</sup>	233	151.00	35,183.00	0.07	215	50,095.00	0.09	42.38
4	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of un	m <sup>3</sup>	3450.00	123.00	424,350.00	0.87	380	1,311,000.00	2.48	208.94
5	Plain cement concrete 1:3:6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibrator including curing complete as per clause 2100 of MoRT&H specification including all sca	m <sup>3</sup>	4566.00	2,460.00	11,232,360.00	23.15	2485	11,346,510.00	21.43	1.02
6	Providing, laying and compacting plain/ reinforced cement concrete of specified grade in foundation/ leveling course/ pile cap using concrete mixer and vibrator complete including cost of form work, as per drawing and technical specifications and as per c	m <sup>3</sup>	910.00	2,776.00	2,526,160.00	5.21	4160	3,785,600.00	7.15	49.86
7	Random rubble masonry with hard stone in foundation and plinth including leveling up with cement concrete 1:6:12 ( 1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at plinth level with: Cement mortar 1:6 (1 cement - 6 coarse sand)	m <sup>3</sup>	12114.00	1,756.85	21,282,480.90	43.86	1620	19,624,680.00	37.07	-7.79
8	Plastering with cement mortar (1:4) on Brick/stone work in substructure/ super structure at any height complete as per clause 1312 of MoRT&H specification including all material, labour, scaffolding etc.	m <sup>2</sup>	11503.00	105.00	1,207,815.00	2.49	130	1,495,390.00	2.82	23.81
9	Pointing of any design with cement mortar (1:3) on Brick work in substructure/ super structure at any height complete as per clause 1312 of MoRT&H specification including all material, labour, scaffolding etc.	m <sup>2</sup>	5490.00	29.00	159,210.00	0.33	65	356,850.00	0.67	124.14
10	Carriage of Earthwork with a lead of 1 Km	m <sup>3</sup>	25500.00	53.00	1,351,500.00	2.79	50	1,275,000.00	2.41	-5.66
	<b>Sub Total of Section 1 in Rs</b>				<b>42,076,089.62</b>			<b>43,159,794.60</b>		2.58
	<b>Section - 2 : Construction of bridge at RD 550.00 of drain No 2 across National Highway No. 15</b>									
1	Dismantling of flexible pavements and disposal of dismantled material upto a lead of 50 metres, stacking serviceable and unserviceable material separately as directed by engineer									
	Bituminous courses	cum	7.88	417.00	3285.96	0.01	485	3,821.80	0.01	16.31
	Granular courses	cum	47.25	278.00	13135.50	0.03	335	15,828.75	0.03	20.50
2	Earth work in excavation in foundation, trenches manholes, road sides chambers etc. including dressing of sides and ramming of bottoms, including getting out the excavated material, refilling after laying pipe / foundation and disposal of surplus excavat	cum	557.7	69.00	38481.30	0.08	75	41,827.50	0.08	8.70
3	Plain cement concrete 1 : 3 : 6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibrator including curing complete as per clause 2100 of MoRT&H specification including a	cum	123.8	2460.00	304548.00	0.63	2485	307,643.00	0.58	1.02
4	Random Rubble stone masonry work in cement mortar with mechanical mixer in foundation (at any level) complete as per drawing and technical specification and as per clause 1000 and 1400 of MoRT&H specification including all scaffolding material, labour, m	cum	288.17	2201.00	634262.17	1.31	1620	466,835.40	0.88	-26.40

S.No.	Particulars	Engineer's Estimate					3/3 Offshore Infrastructures Ltd.			Variation of Lowest from Engineer's
		Unit	Quantity	Unit Rate	Amount	% of works	Unit Rate	Amount	% of works	
1	2	3	4	5	6 = 4 x 5	7				
5	Random Rubble stone masonry work in cement mortar with mechanical mixer in sub structure / superstructure at all levels complete as per clause 1400 and 2200 of MoRT&H specification including all material, labour, scaffolding etc. but excluding pointing a	cum	99.45	2243.00	223066.35	0.46	1620	161,109.00	0.30	-27.78
6	Providing and laying structural plain/ Reinforced cement concrete (Design Mix) of specified grade in substructure at all levels using concrete mixer and vibrator, including cost of form work, as per drawing and technical specification complete as per clau	cum	1.82	3586.00	6526.52	0.01	4160	7,571.20	0.01	16.01
7	supplying, fitting and placing TMT bar reinforcement in sub structure / superstructure at all levels complete as per Drawing and clause 1600 and 2200 of MoRT&H specification including all material, labour, machinery etc.	tonne	16.3	42852.00	698487.60	1.44	64800	1,056,240.00	2.00	51.22
8	Construction of precast / cast-in situ RCC railing M-30 grade, true to line and grade, centre to centre spacing between vertical post not to exceed 2000 mm leaving adequate space between vertical post for expansion, complete as per drawing and technical	metre	19.6	1235.00	24206.00	0.05	380	7,448.00	0.01	-69.23
9	Providing and laying structural Reinforcement/ prestressed cement concrete (Design Mix) of specified grade using batching plant, transit mixture, concrete pump and vibrator in superstructure at all levels including cost of steel form work complete as pe	cum	144.37	4630.00	668433.10	1.38	18360	2,650,633.20	5.01	296.54
10	Providing and laying structural Reinforcement cement concrete (Design Mix) of specified grade using mechanical concrete mixture and vibrator in approach slab, friction slab, edge beam, footpath and kerb as per approved drawing and specification as directe	cum	67.91	4577.00	310824.07	0.64	5400	366,714.00	0.69	17.98
11	Plastering with cement mortar ( 1:3) on brick/ stone work in substructure / super structure at any height complete as per clause 1312 of MoRT&H specification including all material, labour, scaffolding etc. 20 mm plaster on stone work.	Sqm	393.76	105.00	41344.80	0.09	130	51,188.80	0.10	23.81
12	Providing & Laying expansion joints complete as per Drawing and technical specification and as per clause 2605 of MoRT&H specification including all material, labour, machinery etc. Filler joint with 20 mm thick compressible fibre board	Sqm	30.48	736.00	22433.28	0.05	1025	31,242.00	0.06	39.27
13	Providing & Laying 25 mm thick bitumen Mastic Asphalt wearing course with paving grade bitumen meeting the requirements given in table 500-29 (including cost of anti-stripping compound wherever required) @ 14-17 % (by weight) as per job mix formula, co	Sqm	181.3	393.00	71250.90	0.15	280	50,764.00	0.10	-28.75
14	Providing, Laying, spreading and compacting of Granular Sub Base by providing close graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roll	cum	383.85	612	234916.20	0.48	770	295,564.50	0.56	25.82
15 (a)	Providing, Laying, Spreading and Compacting stone aggregate of specific sizes as per table 400-7 to water bound Macadam Specification including spreading in uniform thickness, hand packing, rolling with power roller 8 ó 10 tonnes in stages to proper gra	cum	173.85	1036	180108.60	0.37	960	166,896.00	0.32	-7.34
15 (b)	Providing, Laying, Spreading and Compacting stone aggregate of specific sizes as per table 400-7 to water bound Macadam Specification including spreading in uniform thickness, hand packing, rolling with power roller 8 ó 10 tonnes in stages to proper gra	cum	128.4	1069	137259.60	0.28	970	124,548.00	0.24	-9.26
16	Providing and applying primer coat over prepared surface of g	Sqm	1659	19.00	31521.00	0.06	40	66,360.00	0.13	110.53
17	Providing and applying tack coat on the prepared surface with bitumen emulsion as per IS: 8887 and approved quality @ 0. 2 kg / Sqm with the help of spray set fitted on bitumen container (Boiler) after cleaning the surface with brooms or soft brushes and	Sqm	1659	6.80	11281.20	0.02	35	58,065.00	0.11	414.71
18	Providing and laying open Graded Premix Carpet 20 mm thick (Compacted), on prepared surface in a single course as wearing course, composed of specified graded crushed stone aggregate as per table 500-23, premixed with bituminous binder @ 14.60 Kg/ 10Sq	Sqm	1659	82.00	136038.00	0.28	215	356,685.00	0.67	162.20
19	Providing and applying premixed seal coat Type - B comprising of thin application of fine aggregate 0.06 cum / 10 sqm premix with bitumen binder @ 6.8 kg /10Sqm (including cost of anti stripping compound where ever required) laying with paver finisher wi	Sqm	1659	33.00	54747.00	0.11	55	91,245.00	0.17	66.67
20	Providing and erecting Drainage spouts with 0.15 m long G.I Pipe 150 mm dia and G.I. bolt 10 mm Dia with galvanised MS flat clamp complete as per drawing and technical specification as per clause 2705 of MoRT&H specifications including all material, lab	each	8	601.00	4808.00	0.01	435	3,480.00	0.01	-27.62

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		Unit	Quantity	Unit Rate	Amount	% of works	Unit Rate	Amount	% of works	
1	2	3	4	5	6 = 4 x 5	7				
21	Providing weep holes in brick / stone masonry / plain / reinforced concrete abutment, wing wall / return wall with 150 mm dia A. C. pipes, extending through the full width of the structure with slope of 1 V: 20 H towards drawing face complete as per draw	metre	60	67	4020.00	0.01	390	23,400.00	0.04	482.09
	Sub total of Section 2 in Rs.				<b>3854985.15</b>			<b>6,405,110.15</b>		
	<b>Section - 3 : Construction of bridge at RD 1150.00 of drain No 4 across Ramgarh Bye Pass Road</b>									
1	Dismantling of flexible pavements and disposal of dismantled material upto a lead of 50 metres, stacking serviceable and unserviceable material separately as directed by engineer									
	Bituminous courses	cum	9.72	417.00	4053.24	0.01	485	4,714.20	0.01	16.31
	Granular courses	cum	58.22	278.00	16185.16	0.03	335	19,503.70	0.04	20.50
2	Earth work in excavation in foundation, trenches manholes, road sides chambers etc. including dressing of sides and ramming of bottoms, including getting out the excavated material, refilling after laying pipe / foundation and disposal of surplus excavat	cum	571.74	69.00	39450.06	0.08	65	37,163.10	0.07	-5.80
3	Plain cement concrete 1 : 3 : 6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibrator including curing complete as per clause 2100 of MoRT&H specification including a	cum	148.94	2460.00	366392.40	0.76	2485	370,115.90	0.70	1.02
4	Random Rubble stone masonry work in cement mortar with mechanical mixer in foundation (at any level) complete as per drawing and technical specification and as per clause 1000 and 1400 of MoRT&H specification including all scaffolding material, labour, m	cum	323.31	2201.00	711605.31	1.47	1620	523,762.20	0.99	-26.40
5	Random Rubble stone masonry work in cement mortar with mechanical mixer in sub structure / superstructure at all levels complete as per clause 1400 and 2200 of MoRT&H specification including all material, labour, scaffolding etc. but excluding pointing a	cum	125.52	2243.00	281541.36	0.58	1620	203,342.40	0.38	-27.78
6	Providing and laying structural plain / Reinforced cement concrete (Design Mix) of specified grade in substructure at all levels using concrete mixer and vibrator, including cost of form work, as per drawing and technical specification complete as per cla	cum	1.22	3586.00	4374.92	0.01	4158	5,072.76	0.01	15.95
7	supplying, fitting and placing TMT bar reinforcement in sub structure / superstructure at all levels complete as per Drawing and clause 1600 and 2200 of MoRT&H specification including all material, labour, machinery etc.	tonne	6.82	42852.00	292250.64	0.60	64800	441,936.00	0.83	51.22
8	Construction of precast / cast-in situ RCC railing M-30 grade, true to line and grade, centre to centre spacing between vertical post not to exceed 2000 mm leaving adequate space between vertical post for expansion, complete as per drawing and technical	metre	10.2	1235.00	12597.00	0.03	380	3,876.00	0.01	-69.23
9	Providing and laying structural Reinforcement/ prestressed cement concrete (Design Mix) of specified grade using batching plant, transit mixture, concrete pump and vibrator in superstructure at all levels including cost of steel form work complete as pe	cum	59.16	4630.00	273910.80	0.56	18360	1,086,177.60	2.05	296.54
10	Providing and laying structural Reinforcement cement concrete (Design Mix) of specified grade using mechanical concrete mixture and vibrator in approach slab, friction slab, edge beam, footpath and kerb as per approved drawing and specification as directe	cum	29.75	4577.00	136165.75	0.28	5400	160,650.00	0.30	17.98
11	Plastering with cement mortar ( 1:3) on brick/ stone work in substructure / super structure at any height complete as per clause 1312 of MoRT&H specification including all material, labour, scaffolding etc. 20 mm plaster on stone work.	Sqm	690.41	105.00	72493.05	0.15	130	89,753.30	0.17	23.81
12	Providing & Laying expansion joints complete as per Drawing and technical specification and as per clause 2605 of MoRT&H specification including all material, labour, machinery etc. Filler joint with 20 mm thick compressible fibre board	Sqm	12.6	736.00	9273.60	0.02	1025	12,915.00	0.02	39.27
13	Providing & Laying 25 mm thick bitumen Mastic Asphalt wearing course with paving grade bitumen meeting the requirements given in table 500-29 (including cost of anti-stripping compound wherever required) @ 14-17 % (by weight) as per job mix formula, co	Sqm	73.5	393.00	28885.50	0.06	280	20,580.00	0.04	-28.75
14	Providing, Laying, spreading and compacting of Granular Sub Base by providing close graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roll	cum	240	612.00	146880.00	0.30	810	194,400.00	0.37	32.35

S.No.	Particulars	Engineer's Estimate					3/3 Offshore Infrastructures Ltd.			Variation of Lowest from Engineer's Estimate
		Unit	Quantity	Unit Rate	Amount	% of works	Unit Rate	Amount	% of works	
1	2	3	4	5	6 = 4 x 5	7				
15 (a)	Providing, Laying, Spreading and Compacting stone aggregate of specific sizes as per table 400-7 to water bound Macadam Specification including spreading in uniform thickness, hand packing, rolling with power roller 8 ó 10 tonnes in stages to proper gra	cum	97.5	1036.00	101010.00	0.21	865	84,337.50	0.16	-16.51
15 (b)	Providing, Laying, Spreading and Compacting stone aggregate of specific sizes as per table 400-7 to water bound Macadam Specification including spreading in uniform thickness, hand packing, rolling with power roller 8 ó 10 tonnes in stages to proper gra	cum	71.88	1069.00	76839.72	0.16	865	62,176.20	0.12	-19.08
16	Providing and applying primer coat over prepared surface of granular base with bitumen emulsion as per IS: 8887 and approved quality @ 0.6 kg / Sqm with the help of spray set fitted on bitumen container (Boiler) after cleaning the surface including remov	Sqm	75	19.00	1425.00	0.00	40	3,000.00	0.01	110.53
17	Providing and applying tack coat on the prepared surface with bitumen emulsion as per IS: 8887 and approved quality @ 0.2 kg / Sqm with the help of spray set fitted on bitumen container (Boiler) after cleaning the surface with brooms or soft brushes and	Sqm	75	6.8	510.00	0.00	35	2,625.00	0.00	414.71
18	Providing and laying open Graded Premix Carpet 20 mm thick (Compacted), on prepared surface in a single course as wearing course, composed of specified graded crushed stone aggregate as per table 500-23, premixed with bituminous binder @ 14.60 Kg/ 10Sq	Sqm	75	82.00	6150.00	0.01	215	16,125.00	0.03	162.20
19	Providing and applying premixed seal coat Type - B comprising of thin application of fine aggregate 0.06 cum / 10 sqm premix with bitumen binder @ 6.8 kg /10Sqm (including cost of anti stripping compound where ever required) laying with paver finisher wi	Sqm	75	33.00	2475.00	0.01	55	4,125.00	0.01	66.67
20	Providing and erecting Drainage spouts with 0.15 m long G.I Pipe 150 mm dia and G.I. bolt 10 mm Dia with galvanised MS flat clamp complete as per drawing and technical specification as per clause 2705 of MoRT&H specifications including all material, labo	each	8	601.00	4808.00	0.01	435	3,480.00	0.01	-27.62
21	Providing weep holes in brick / stone masonry / plain / reinforced concrete abutment, wing wall / return wall with 150 mm dia A. C. pipes, extending through the full width of the structure with slope of 1 V: 20 H towards drawing face complete as per draw	metre	60	67.00	4020.00	0.01	390	23,400.00	0.04	482.09
	<b>Sub Total of section 3 in Rs.</b>				<b>2593296.51</b>			<b>3,373,230.86</b>		
	<b>Total of part A - (without Provisional Sum)</b>				<b>48524371.28</b>	100.00		<b>52,938,135.61</b>	100.00	9.10
	<b>Part B – Provisional Sums (For Third Party Inspection, Shifting of Utilities etc.)</b>				<b>500000.00</b>			<b>500,000.00</b>		
	<b>Grand Total in Rs.</b>				<b>49024371.28</b>			<b>53438135.61</b>		

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