

7. Ghazipur

8. Ramnagar

1 INR(India Rupee)= 1.57 JPY
 1 US\$= 105.5 JPY

Summary - Ram Nagar STP I&D

Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
				Unit	Amount	Unit	Amount	
Ram Nagar STP-civil work	10MLD	LS	1				125,572,191.91	
Mechanical works		LS	1				56,018,400.00	
Electrical works							11,925,440.00	
Sewage Pumping Station at Mallahi		LS	1				20,262,969.62	
Sewage Pumping Station at Mallahi - Miscellaneous works		LS	1				10,241,215.24	
Sewage Pumping Station at Mallahi - Rising Main		LS	1				16,763,799.58	
Sewage Pumping Station - Outfall structure at BaluaGhat, Salotri &		LS	1				4,521,606.27	
Laying of Sewer for Diversion of Balua Ghat, Salotri & Shakti Ghat		LS	1				6,294,903.81	
Communication & Public Outreach		LS	1				1,000,000.00	
Environmental and Management Plan		LS	1				1,000,000.00	
Governance and Accountability Action Plan (GAAP)		LS	1				1,000,000.00	
Power Connection & Allied Works		LS	1				38,127,000.00	
Hiring of Godown and Site Office		LS	1				246,000.00	
Cost of sewer cleaning equipments, Flushing Van		LS	1				800,000.00	
Total							293,773,526.43	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
<Civil/Building work>									
1. 10 MLD STP AND APPURTENANCES WORKS									
	Construction of STP		MLD	1			125,000,000	125,000,000	
	Total							125,000,000	
2. EFFLUENT DISPOSAL CONDUITE									
	Excavation by manually or mechanically up to following depths below G.L. for laying sewer line, in ordinary soil (earth, sand, loam & clay) including cutting of joints pits ramming dressing, leveling by manually or mechanically, refilling of trenches in 20cm layer watering and ramming the same including removal of surplus earth or other dismantled material up to a distance of 50m from the centre of trenches (Excavation for Manhole is 1) Earth Work								
UPJN SOR 3001	Excavation	00.00m – 01.50m B G L	m ³	1,350			184.79	249,466.50	
UPJN SOR 3002		B.G.L.	m ³	292.5			231.98	67,854.15	
	2)Barricading								
	Supply of all material, labour and T&P to provide the barricading along trench during excavation and laying of pipe with eucalyptus ballies of 100mm dia in horizontal section in two rows and vertical post of 125 mm dia at 2 m C/C fastened with Nariyal rope including provision of cacution board. (50% of 3)SHUTTERING		m	500			440.1	220,050.00	
UPJN SOR 3041	Provide and fix open timbering (covering 1/3rd of surface area by plank in trenches for the following depths below G.L. consisting of 40mm thick approved country wood plank for poling board 125x75mm Indian Sal wood wallers and 100mm diameter Sal wood ballies for shuttering at 1.50m c/c including removal after laying (will be taken as one side for the purpose of payment and measurement i.e. area equals to length x depth of trenches) dismantled timbering material will be	00.00m – 03.00m B.G.L.	m	225			388.56	87,426.00	
	4)Bedding								
UPJN SOR 1015. A ii	Concrete Cradle Bedding with 12-20mm gauge approved stone ballast coarse sand and cement in M-15 including supply of all materials labour T&P etc. required for proper completion of work. (excluding shuttering and centering)	01.51 – 03.00m	m ³	195			8,813.87	1,718,704.65	
	5) Manhole installation work								
	Construction of brick masonry manhole in first class brick of following types and sizes in cement mortar 1:4, P.C.C. top slab with 1:2:4, foundation concrete 1:2:4, inside & outside plastering 12mm thick with cement mortar 1:3 finished with floating coat of neat cement and making channels in cement concrete with 1:2:4, finished with floating coat of neat cement complete with including CI steps (PVC encapsulated) staggered at 0.3 m interval, RCC arch above pipe including excavation, reinforcement and form work, SFRC heavy duty frame and cover as per standard design and drawing.	C-Type Manhole 1500 mm Dia depth 2.31 to 3m	Nos	10			53,350	533,500.00	
	6)Pipe material cost								
	R.C.C. PIPES: NP-3 CLASS, Dia. 600mm	R.C.C. PIPES: NP-3 CLASS, Dia. 600mm	m	500			1,987	993,500.00	
	7)Pipe installation cost								

	Items	Specification	Unit	Qty	I.C Portion (Yen)		I.C Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
UPJN SOR 3205 ii	Providing and conveying to site RCC pipes with sulphate resistant cement of following class (with s/s ends) and diameter as per IS: 458 - 2003 (Amended up to date) including all taxes (Central and Local) with Rubber gaskets as per (EPDM/SBR) for sewer lines as per IS: 5382-1985 or (Amended up to date), including cost of Rubber gaskets, labour required, transportation, loading, unloading & stacking etc.(excluding cost of laying, jointing, testing and commissioning). The pipe shall be ISI marked		m	500			894.99	447,495.00	
								4,317,996	
	3. Buildings								
CPWD Plinth Area Rate as on 01.10.2012	1) Administrative Building		m ²	300			20,894.48	6,268,344.00	
CPWD Plinth Area Rate as on 01.10.2012	2) Staff Quarters		m ²	45.6			20,894.48	952,788.29	
CPWD Plinth Area Rate as on 01.10.2012	3) Guard room		m ²	9			20,894.48	188,050.32	
								7,409,183	
CPWD Plinth Area Rate as on 01.10.2012	4. Site Development								
6.1	levelling		m ²	5,000			95	475,000.00	
6.4	Water supply		m ²	5,000			45	225,000.00	
6.5	Storm Water Drain		m ²	5,000			85	425,000.00	
6.6	Horticulture		m ²	5,000			80	400,000.00	
6.7	Lighting Area		m ²	5,000			95	475,000.00	
	Boundary Wall installation		m	500			6,650	3,325,000.00	
	Gate installation	3.0m wide	Ls	1			67,000	67,000.00	
UP PWD	Internal Roads & Pathways		m ²	3,850			3,634	13,990,900.00	
								19,382,900	
	5. Lab Equipment								
	Lab Equipment		Ls.	1				1,372,968	Details are mentioned in DPR
	6. Fire Fighting system								
	1) Supply & installation of ISI marked single headed 63mm dia gunmetal lading valve, Flanged Inlet with 63mm female instantaneous outlet conforming to IS 5290 on the fire wet riser/down comer including making 80b Nb pipe connection with riser fixing the landing valves in proper positions including supply of nuts, bolts, gaskets caps, chain etc. testing the hydrant and completing the work in all respect as per direction of the Engineer-in-charge (Make Fires/Safes/ Minimax/ Newage/DSS)		No	8			5,900	47,200	
	2) Supply laying & installation of mild steel pipes, tees, elbow, reducer etc below grounds including necessary cost and work. 25mm		m	12			320	3,840	
	Supply laying & installation of mild steel pipes, tees, elbow, reducer etc below grounds including necessary cost and work. 65mm		m	25			580	14,500	
	Supply laying & installation of mild steel pipes, tees, elbow, reducer etc below grounds including necessary cost and work. 80mm		m	75			725	54,375	
	100mm		m	100			940	94,000	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	150NB		m	100			1,410	141,000	
	3) Supply & fixing in position ISI marked cast iron double flanged sluice valves with gun metal as per IS 780 class PN 16 including transporting to work site supply and fixing nuts, bolts, gaskets and washer etc. including testing complete as per drawing as per the Engineer-in-charge make(Kirloskar/ Castle/Sir/Kalpana) 80 NB		No.	12			4,750	57,000	
	100NB		No.	8			5,840	46,720	
	150NB		No.	8			8,450	67,600	
	4) Supply, fixing in position ISI marked cast iron double flanged non return valves as per IS 5312, including transportation to worksite, supply & fixing nuts bolts gasket and washers etc complete with testing as per direction of the Engaeer-in-charge make (Kirlosker/Castle/Sir/Kalpana) 80 NB		No.	1			3,620	3,620	
	100NB		No.	1			4,720	4,720	
	150NB		No.	2			7,920	15,840	
	5) Supply, installation and testing of cylindrical type air cushion/vessel tank, 250mm dia 1.0 m long and of thickness 6mm MS, on top of wet riser and with the pump set ncluding flanged connection etc. The air cushion tank shall be)roviding with an automatic air release valve, safety valve pressure gauge etc complete as per direction of the Engineer-in-charge.		No.	1			25,000	25,000	
	6) Supply fixing testing & Commissioning of 20mm bore and 30meter long hose (Rubber lined)unlop pipe) and hose reel for first lid fire fighting, conforming to IS 384, with full swing drum fixing brackets, 5mm dia. shut off gun metal nozzle 25mm dia. GI pipe including 25mm dia GI pipe through 25mm dia. GI pipe including 25mm dia. GI pipe length with sockets, elbow nipples etc including providing operating instruction on a metal plate and fixing it near hose reel. The system shall be complete in all respect as per drawing and direction of Engineer-in-charge		No.	2			7,200	14,400	
	7) Providing gun metal IS marked 63mm dia. branch pipes & 20mm dia nozzle near wet riser as required (Make: Minimax/ Firex/ Saex/ Newage/		No.	2			2,000	4,000	
	8) Providing IS marked R.R.L (IS 636 Type II) Fire hose pipe 1.5 m long and 63mm dia. with IS1 marked (IS: 903 gun metal make and female" coupling complete as required near wet riser make "JAYSHREE NEWAGE CRC"		No.	4			6,500	26,000	
	9) Providing and fixing orifice plate at appropriate place to restrict the pressure/at different floor on the wet riser system and yard hydrant it shall be inserted between the tee and hydrant valve, the size of plate being 100mm or 80mm (as the case may be) the hole not less than 50mm and the thickness shall not be less than 6mm of stainless steel as required.		No.	1			550	550	

	Items	Specification	Unit	Qty	I/C Portion (₹/m)		L.C Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	10) Providing and fixing of draining arrangement to the vertical wet riser system/sprinklers system with necessary 50mm CI pipe complete with 50mm dia stop valve		No.	1			1,600	1,600	
	11) S.I.T.C Weather proof standard fire hose cabinet "0.9m x 0.9m x 0.45m" out door type suitable for accommodating yard hydrant made for not less than 16 SWG MS sheet having central opening glass door (5mm thick clear glass) including necessary locking arrangement with hanger for housing two nos. 15m long fire hose pipe branch pipe and hydrant valve as required including painting (one coat primer and two coat a fire rate paint by the fire rate color, the cabinet shall be mounted on suitable raised platform the words "WHOSE CABINAT" to be painted on the front glass door.		No.	2			4,800	9,600	
	12) S.I.T.C standard fire hose cabinet door (1.0 * 1.8m) suitable to fit in the jacket made of not less than 16 SWG MS sheet having central opening glass door (5mm thick clear glass) including necessary locking arrangement & handle as required including necessary locking arrangement & handle as required including painting (one coat primer & two coats of fire red color) by the fire red color, the door shall be fixed in the masonry wall as required the words "HOSH CABINET" to be painted on the front glass door.		No.	2			3,750	7,500	
	13) Constructing brick masonry chamber 60*60*100 cm inside the 75 class designation FPS brick work in cement mortar 1:5(1 cement : 5 fine sand) for sluice valve with CI cover and frame (medium duty) 500mm internal diameter total weight of cover and frame to be not less than 116 kg (weight of cover 58kg and weight of frame 58kg). with chained lid and RCC top slab 1:2.4 mix(1 cement: 2 coarse sand 4 graded stone aggregate 20mm nominal size) necessary excavation, foundation, concrete 1:5:10 (1 cement: 5 fine sand 10 graded stone aggregate) 40mm nominal size and inside plastering with cement mortar 1:3 (1 cement: 3 coarse sand) 12mm thick with floating coat off		No.	1			14,000	14,000	
	14) S.I.T.C. of 4 way 63mm instantaneous inlet for fire brigade connection including provision for 150mm dia sluice valve and non return valve (the cost of sluice and non return valve shall be under separate item) and making connection with 150 NB fire fighting wet riser pipe or under ground water tank and fixing inlet with caps and chains in a 5mm thick glass, fronted box of 16 GWG MS sheet, fixing it on the ground level on concrete base, painting with fire red paints, completing the work in all respects as per direction of the engineer-in-charge conforming to the relevant IS:5290		No.	1			22,500	22,500	

	Items	Specification	Unit	Qty	FC Portion (Yen)		I.C Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	15) S.I.T.C. of TAG approved electrical motor driven fire pump suitable for automatic operation consisting of blowing (main pump for hydrant system) Kirloskar made		No.	1			250,000	250,000	
	16) Horizontally mounted split casing centrifugal fire pump complete for delivery of under mentioned discharge against desired mentioned head so as to insure of minimum pressure of thirty mtr. At highest and arthrest out let at the specified flow complete with necessary strainers, pressure gauge including bypass arrangement for periodic testing of the working of the pump set as well as testing of automation with required length and size of medium class GI pipe and control valves for proper completion of work, the pump shall be capable of giving 150% of rated discharge at head not less than 65% of rated head the pump shall be provided with : mechanical seal, the impeller shall be enclosed type and accurately balanced dynamically, the pump casing shall be of cast iron, impeller shall be of bronze and shaft shall be of stainless steel.		No.	1			18,000	18,000	
	17) Squirrel case TEFC induction motor suitable for 415V 3 phase having IP 55 protection and class B insulation for the above pump and flexible coupling with the pump, the motor shall be rated for continuous duty/ and shall, have HP rating necessary to drive to pump at 150% of its rated discharge at 65% of rated head.		No.	1			50,000	50,000	
	18) S.I.T.C. of TAC approved diesel engine driven fire pump suitable for automatic operation consisting of following (standby pump) Kirloskar make.		No.	1			46,000	46,000	
	19) S.I.T.C. of TAC approved electrical motor driven fire pump suitable for automatic operation consisting of following (Jockey pump) Kirloskar		No.	1			54,000	54,000	
	20) Fabricating supply fixing testing & commissioning of cubical type flow mounted electrical control panel of 2mm thick CRCA sheet for fire fighting pump with suitable relays, S/F unit with HRC fuses for incoming and outgoing feeders contactor, star delta starters including land ammeter, voltmeter, selector, switches, CT's, PT's protective fuses indicating light for incoming and out going feeders auxiliary switches dry section cutoff, single phase presenter, suitable capacity copper bus bars etc. The panel, shall be provided with inter locking arrangement between electric motor driven and diesel engine driven pump so that only one pump can operate at one time, and in case of any failure in electrical motor driven pump the diesel engine driven pump shall operate automatically The installation shall be complete including all control wiring and connection as required for following pumps-		No.					0	
	1 No. Electric motor driven		No.	1			13,500	13,500	
	1 No. Diesel pump		No.	1			10,500	10,500	
	1 No. Jockey pump		No.	1			12,000	12,000	

	Items	Specification	Unit	Qty	PC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	<Civil/Building work>								
	1. Inlet Chamber								
	1) Earth Work								
	Excavation up to following depths below G.L. for laying sewer line, manholes in ordinary soil (earth, sand, loam & clay) including cutting of joints pits ramming dressing, leveling, refilling of trenches in 20cm layer watering and ramming the same including removal of surplus earth or other dismantled material up to a								
UPJN SOR 3001		0.00m – 1.50m B.G.L.	m ³	36 0			184.79	6,652.44	
UPJN SOR 3002		1.51m – 3.00m B.G.L.	m ³	28 9			231.98	6,699.58	
	2) Piling								
	Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto								
DSR 2014 20.3.3	Pile installation	450mm dia. Piles	m	48			2,835.95	136,125.60	
	3) Concrete work								
	R.C.C work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1.5:3 in columns excluding supply of reinforcement and its bending but including its fixing and binding the same with 0.50 mm thick binding wire (to be supplied by the contractor) including necessary centering and shuttering, supply of all materials,								
UPJN SOR 1025.i.	Pile Cap/Beam		m ³	3.20			12,715.80	40,690.56	
UPJN SOR 1025.i.	Column		m ³	2.79			12,715.80	35,477.08	
UPJN SOR 1025.i.	Beam		m ³	3.20			12,715.80	40,690.56	
UPJN SOR 1025.i.	Slab		m ³	5.73			12,715.80	72,861.53	
UPJN SOR 1025.i.	Wall		m ³	36.62			12,715.80	465,652.60	
	4) Form work								
DSR 2013	Centering and shuttering including strutting, propping, etc. and removal of form work (Average rate for Foundation, Footings, Bases of Columns, Walls, Columns, Beams,								
5 9 5	Pile Cap/Beam		m ²	14.22			322.15	4,580.97	
5 9 6	Column		m ²	24.77			453.35	11,229.48	
5.9.5	Beam-1		m ²	14.22			332.15	4,723.17	
5.9.5	Beam-2		m ²	7.11			332.15	2,361.59	
5.9.3	Slab-1		m ²	19.11			401.65	7,675.53	
5.9.3	Slab-2		m ²	4.74			401.65	1,903.82	
5 9 2	Wall		m ²	162.74			360.80	58,716.59	
	5) Re-Bar work								
UPJN SOR	Mild steel or iron work in plane work such as in R.C.C work (When not included in over all rates) wrought to the required shape as necessary including bending for the completion of work and including supply of all materials, labours, T&P etc. complete								
1151	Pile @0.8%		kg	480.42			70.96	34,090.60	
1151	Pile Cap/Beam @1.0%		kg	200.93			70.96	14,257.99	
1151	Column @1.0%		kg	218.74			70.96	15,521.79	
1151	Beam @1.0%		kg	251.16			70.96	17,822.31	
1151	Slab @1.0%		kg	450.04			70.96	31,934.84	
1151	Wall @1.25%		kg	3,592.99			70.96	254,958.57	
	6) Epoxy painting work								

	Items	Specification	Unit	Qty	PC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
DSR-2014 13.52	Finishing with epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. inside Inlet Chamber up								
13.52.2	concrete work		m ²	72.10			121.15	8,734.92	
	7) Foot rest installation								
	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS - 10910, on 12 mm dia steel bar conforming to IS: 1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm trend on top surface by ribbing or chequering besides necessary and adequate anchoring projections on full length on 138 mm as per standard drawing and suitable to withstand the bend test and chemical resistance test as per specifications and having manufacturer's permanent identification mark to be visible even after fixing, including fixing inlet chamber with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone)								
DSR-2014 19.16	Foot rest installation		No	18			311.6	5,608.80	
	8) Railing installation work								
	Providing and fixing 1.00m high Railing made up of 25mm diameter GI pipe (in three rows) fixed with 75x50x6 MS angles including supply of all materials labour and T&P etc for proper completion of work also including one priming coat & two coat								
	1m high railing installation		m	14.6			1,960.00	28,616.00	
	Total							1,307,587	
	2. Coarse Screen Chambers								
	1) Earth Work								
UPJN SOR	Excavation up to following depths below G.L. for laying sewer line, manholes in ordinary soil (earth, sand, loam & clay) including cutting of joints pits ramming dressing, leveling, refilling of trenches in 20cm layer watering and ramming the same including removal of surplus earth or other dismantled material up to a								
3001		0.00m - 1.50m B.G.L.	m ³	45.0			184.79	8,315.55	
3002		1.51m - 3.00m B.G.L.	m ³	40.5			231.98	9,395.19	
	2) Piling								
DSR 2014	Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto								
20.3.3	Pile installation	450mm dia Piles	m	96			2,835.95	272,251.20	
	3) Concrete work								
UPJN SOR	R.C.C. work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1.5:3 in columns excluding supply of reinforcement and its bending but including its fixing and binding the same with 0.50 mm thick binding wire (to be supplied by the contractor) including necessary centering and shuttering, supply of all materials,								
1025 i	Pile Cap/Beam-1		m ³	4.86			12,715.80	61,798.79	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
1025.i	Pile Cap/Beam-2		m ³	3.48			12,715.80	44,250.98	
1025.i	Column		m ³	5.57			12,715.80	70,827.01	
1025.i	Beam-1		m ³	4.86			12,715.80	61,798.79	
1025.i.	Beam-2		m ³	3.48			12,715.80	44,250.98	
1025.i.	Slab		m ³	7.74			12,715.80	98,420.29	
1025.i.	Wall		m ³	49.46			12,715.80	628,923.47	
	4) Form work								
DSR 2013	Centering and shuttering including sturting, propping, etc. and removal of form work (Average rate for Foundation, Footings, Bases of Columns, Walls, Coulmns, Beams,								
5.9.5	Pile Cap/Beam-1		m ²	21.60			322.15	6,958.44	
5.9.5	Pile Cap/Beam-2		m ²	15.48			322.15	4,986.88	
5.9.6	Column		m ²	49.45			453.35	22,418.16	
5.9.5	Beam-1		m ²	21.60			332.15	7,174.44	
5.9.5	Beam-2		m ²	15.48			332.15	5,141.68	
5.9.3	Slab-1		m ²	25.80			401.65	10,362.57	
5.9.3	Slab-2		m ²	6.18			401.65	2,482.20	
5.9.2	Wall		m ²	219.84			360.80	79,318.27	
	5) Re-Bar work								
UPJN SOR	Mild steel or iron work in plane work such as in R.C.C work (When not included in overall rates) wrought to the required shape as necessary including bending for the completion of work and including supply of all materials,								
1151	Pile @0.8%		kg	722.20			70.96	51,247.31	
1151	Pile Cap/Beam @1.0%		kg	523.94			70.96	37,178.78	
1151	Column @1.0%		kg	437.47			70.96	31,042.87	
1151	Beam @1.0%		kg	654.93			70.96	46,473.83	
1151	Slab @1.0%		kg	607.59			70.96	43,114.59	
1151	Wall @1.25%		kg	4,853.66			70.96	344,415.71	
	6) Epoxy painting work								
DSR-2014 13.52	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. inside Inlet Chamber up								
13.52.2	Concrete work		m ²	239.40			121.15	29,003.31	
	7) Foot rest installation								
DSR-2014 19.16	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS 10910, on 12 mm dia steel bar conforming to IS: 1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in inlet chamber with 30x20x15 cm cement concrete block 1:3:6 (1 cement . 3 coarse sand . 6 graded stone		No.	46			311.6	14,333.60	
	8) Stair installation								
1150	Providing and fixing MS stair for entering in to silt catching basin as per satisfaction of Engineer in charge including supply of all materials labour and T&P etc for proper completion of								
	MS stair installation		kg	250.00			95.12	23,780.00	
	9) Railing installation work								

	Items	Specification	Unit	Qty	P.C Portion (Yen)		I.C Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	Providing and fixing 1.00m high Railing made up of 25mm diameter GI pipe (in three rows) fixed with 75x50x6 MS angles including supply of all materials labour and T&P etc for proper completion of work also including one priming coat & two con								
	1m high railing installation		m	170			1,960.00	23,520.00	
	Total							2,083,184.89	
	3. Silt catching basin								
	1) Earth Work								
	Excavation up to following depths below G.L. for laying sewer line, manholes in ordinary soil (earth, sand, loam & clay) including cutting of joints pits ramming dressing, leveling, refilling of trenches in 20cm layer watering and ramming the same including removal of surplus earth or other dismantled material up to a								
UPJN SOR 3001	Excavation	0.00m – 1.50m B.G.L.	m ³	67.5			184.79	12,473.33	
UPJN SOR 3002		1.51m – 3.00m B.G.L.	m ³	60.0			231.98	13,918.80	
	2) Piling								
	Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete (length of pile for payment shall be measured upto								
DSR 2014 20.3.3	Pile installation	450mm dia Piles	m	144			2,835.95	408,376.80	
	3) Concrete work								
	R.C.C. work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1.5:3 in columns excluding supply of reinforcement and its bending but including its fixing and binding the same with 0.50 mm thick binding wire (to be supplied by the contractor) including necessary centering and shuttering, supply of all materials,								
UPJN SOR 1025.i.	Pile Cap/Beam-1		m ³	7.29			12,715.80	92,698.18	
UPJN SOR 1025.i.	Pile Cap/Beam-2		m ³	5.22			12,715.80	66,376.48	
UPJN SOR 1025.i.	Column		m ³	8.36			12,715.80	106,304.09	
UPJN SOR 1025.i.	Beam-1		m ³	7.29			12,715.80	92,698.18	
UPJN SOR 1025.i.	Beam-2		m ³	5.22			12,715.80	66,376.48	
UPJN SOR 1025.i.	Slab		m ³	15.48			12,715.80	196,840.58	
UPJN SOR 1025.i.	Wall-1		m ³	49.46			12,715.80	628,923.47	
UPJN SOR 1025.i.	Wall-2		m ³	4.00			12,715.80	50,863.20	
UPJN SOR 1025.i.	Wall-3		m ³	3.44			12,715.80	43,742.35	
	4) Form work								
DSR 2013	Centering and shuttering including strutting, propping, etc. and removal of form work (Average rate for Foundation, Footings, Bases of Columns, Walls, Columns, Beams,								
5.9.5	Pile Cap/Beam-1		m ²	43.20			322.15	13,916.88	
5.9.5	Pile Cap/Beam-2		m ²	15.48			322.15	4,986.88	
5.9.6	Column		m ²	74.30			453.35	33,683.91	
5.9.5	Beam-1		m ²	43.20			332.15	14,348.88	
5.9.5	Beam-2		m ²	15.48			332.15	5,141.68	
5.9.3	Slab-1		m ²	51.60			401.65	20,725.14	
5.9.3	Slab-2		m ²	8.58			401.65	3,446.16	
5.9.2	Wall-1		m ²	439.68			360.80	158,636.54	
5.9.2	Wall-2		m ²	80.00			360.80	28,864.00	
5.9.2	Wall-3		m ²	34.40			360.80	12,411.52	
	5) Re-Bar work								

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
UPJN SOR	Mild steel or iron work in plane work such as in R.C.C work (When not included in over all rates) wrought to the required shape as necessary including bending for the completion of work and including supply of all materials, labours, T&P etc. complete								
1151	Pile @0.8%		kg	1,083.30			70.96	76,870.97	
1151	Pile Cap/Beam @1.0%		kg	785.91			70.96	55,768.17	
1151	Column @1.0%		kg	656.21			70.96	46,564.66	
1151	Beam @1.0%		kg	982.39			70.96	69,710.39	
1151	Slab @1.0%		kg	1,215.18			70.96	86,229.17	
1151	Wall @1.25%		kg	7,438.27			70.96	527,819.64	
	6) Epoxy painting work								
DSR-2014 13.52	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete inside Inlet Chamber up								
13.52.2	Concrete work-1		m ²	159.60			121.15	19,335.54	
13.52.2	Concrete work-2		m ²	20.00			121.15	2,423.00	
13.52.2	Concrete work-3		m ²	17.20			121.15	2,083.78	
	7) Stair installation								
	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS 10910, on 12 mm dia steel bar conforming to IS: 1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in inlet chamber with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone								
1150	MS stair installation		kg	350.00			95.12	33,292.00	
	8) Railing installation work								
	Providing and fixing 1.00m high Railing made up of 25mm diameter GI pipe (in three rows) fixed with 75x50x6 MS angles including supply of all materials labour and T&P etc for proper completion of work also including one priming coat & two coat		m	12.0			1,960.00	23,520.00	
	Total							3,019,371	
	4. Wet Well								
	1) Earth Work								
	Excavation up to following depths below G.L. for laying sewer line, manholes in ordinary soil (earth, sand, loam & clay) including cutting of joints pits ramming dressing, leveling, refilling of trenches in 20cm layer watering and ramming the same including removal of surplus earth or other dismantled material up to a								
UPJN SOR 3001	Excavation	0.00m – 1.50m B.G.L.	m ³	113.1			184.79	20,907.14	
	3) Concrete work								

	Items	Specification	Unit	Qty	PC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	R C C work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1.5:3 in columns excluding supply of reinforcement and its bending but including its fixing and binding the same with 0.50 mm thick binding wire (to be supplied by the contractor) including necessary centering and shuttering, supply of all materials,								
UPJN SOR 1025 i	Top Slab		m ³	8.31			12,715.80	105,668.30	
UPJN SOR 1025 i	Bottom Slab		m ³	44.18			12,715.80	561,784.04	
UPJN SOR 1025 i	Vertical Walls		m ³	311.02			12,715.80	3,954,868.12	
	4) Form work								
DSR 2014 5.9.14 &	Centering and shuttering including strutting, propping, etc and removal of form work (Average rate for Foundation, Footings, Bases of Columns, Walls, Columns, Beams,								
5.9.3	Top Slab-1		m ²	22.09			401.65	8,872.45	
5.9.3	Top Slab-2		m ²	3.96			401.65	1,590.53	
5.9.2	Vertical Walls-outer side		m ²	452.39			432.96	195,866.77	
5.9.2	Vertical Walls-inner side		m ²	376.99			432.96	163,221.59	
	5) Re-Bar work								
UPJN SOR	Mild steel or iron work in plane work such as in R C C work (When not included in over all rates) wrought to the required shape as necessary including bending for the completion of work and including supply of all materials, labours, T&P etc. complete								
1151	Top Slab @1.0%		kg	652.54			70.96	46,304.24	
1151	Raft @1.0%		kg	3,468.02			70.96	246,090.70	
1151	Wall @1.25%		kg	30,518.61			70.96	2,165,600.57	
	6) Epoxy painting work								
DSR-2014 13.52	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. inside Inlet Chamber up								
13.52.2	Inside wall		m ²	239.19			121.15	28,977.87	
13.52.2	Top Slab		m ²	22.09			121.15	2,676.20	
	7) Foot rest installation								
	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS 10910, on 12 mm dia steel bar conforming to IS: 1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in inlet chamber with 30x20x15 cm cement concrete block 1:3:6 (1 cement, 3 coarse sand, 6 graded stone								
DSR-2014 19.16	CI-Foot rest installation		No.	54			225.0	12,150.00	
	8) Railing installation work								
	Providing and fixing 1.00m high Railing made up of 25mm diameter GI pipe (in three rows) fixed with 75x50x6 MS angles including supply of all materials labour and T&P etc for proper completion of work also including one priming coat & two coat								
	1m high railing installation		m	20.05			1,960.00	39,298.00	
UPJN SOR	9)Well installation								
3163	Sinking of well 8.5m dia. (external) in ordinary soil.	0.0 - 1.5m deep	m	1.5			91,255.51	136,883.27	
3164		1.5 - 3.0m deep	m	1.5			125,952.76	188,929.14	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
3165		3.0 - 6.0m deep	m	1.5			172,633.81	258,950.72	
	Total							8,138,640	
	5. Pump House Building								
CPWD Plinth Area Rate	construction of pump house building		m ²	54			27,078.75	1,462,252.50	
	6. HT Room/ Metering Room								
CPWD Plinth Area Rate	Construction of HT room/ metering room		m ³	108			25,391.25	2,742,255.00	
	7. Transformer Platform								
	1) Earth Work								
UPJN SOR	Excavation up to following depths below G.L. for laying sewer line, manholes in ordinary soil (earth, sand, loam & clay) including cutting of joints pits ramming dressing, leveling, refilling of trenches in 20cm layer watering and ramming the same including removal of surplus earth or other dismantled material up to a								
3001		0.00m – 1.50m B.G.L	m ³	6.8			184.79	1,247.33	
3002		1.51m – 3.00m B.G.L	m ³	0.68			231.98	157.75	
	3) Concrete work								
UPJN SOR	R.C.C. work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1.5:3 in columns excluding supply of reinforcement and its bending but including its fixing and binding the same with 0.50 mm thick binding wire (to be supplied by the contractor) including necessary centering and shuttering, supply of all materials,								
1017	in foundation lean concrete		m ³	0.68			6,364.94	4,328.16	
1025.i	Block foundation		m ³	4.1			12,715.80	52,134.78	
	5) Re-Bar work								
UPJN SOR	Mild steel or iron work in plane work such as in R.C.C. work (When not								
1151	Raft @0.4%		kg	128.7			70.96	9,135.39	
	Total							67,003	
	8. DG Set Platform								
	1) Earth Work								
UPJN SOR 3001	Excavation	0.00m – 1.50m B.G.L	m ³	24.0			184.79	4,434.96	
UPJN SOR 3002		1.51m – 3.00m B.G.L	m ³	2.40			231.98	556.75	
	3) Concrete work								
UPJN SOR 1017	R.C.C. work with cement, coarse sand and 20 mm gauge approved stone in foundation lean concrete		m ³	2.40			6,364.94	15,275.86	
UPJN SOR 1025.1	Block foundation		m ³	12.3			12,715.80	156,404.34	
	5) Re-Bar work								
UPJN SOR	Mild steel or iron work in plane work such as in R.C.C. work (When not included in over all rates) wrought to the required shape as necessary including bending for the completion of work and including supply of all materials, labours, T&P etc. complete								
1151	Raft @0.4%		kg	386.2			70.96	27,406.17	
	Total							204,078	

	Items	Specification	Unit	Qty	PC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	9. Fencing around SPS and four pole structure								
	1) Fence installation								
16.17.1	Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar ribs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately) :- Payment to be made per R.C.C. Standards post/struts/nails/		m	140			9	1,255.80	
16.15.1	pales of mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar ribs wherever required as per direction of Engineer-in-charge (cost of earth works in excavation, concrete works in		m ³	6.34			20,989.6	7,136.46	
		Total						8,392.26	
	10. Staff Quarter								
CPWD Plinth Area Rate	Construction of staff quarter		m ²	48.5			25,391.25	1,230,206.06	

	Items	Specification	Unit	Qty	I/C Portion (Yen)		L/C Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
<Civil/Building work>									
1. Boundary Wall & Gate									
	1) boundary wall and gate installation								
	Construction of 1.8 m high boundary wall at proposed IPS with supply of materials, labour and T&P etc.		m	140.0			6,650.00	931,000.00	
	Providing and fixing MS gates 3.6m wide & wicket 1.2 m wide as per departmental type drawing		No	1			67,000.00	67,000.00	
	Total							998,000.00	
2. Internal road & Site development									
	Providing 3.6 m wide bituminous road complete as per PWD Specification		m ²	216			3,634	784,944.00	
	Leveling, dressing & plantation		m ²	1,000			95.00	95,000.00	
	Total							879,944.00	
3. Access Road									
	Providing 3.6 m wide bituminous road complete as per PWD Specification		m ²	108			3,634.00	392,472.00	
	Total							392,472.00	
4. Staff Quarter									
	Construction of Staff Quarter including plaster, painting door, window, internal electrical fitting etc. with water supply and sewerage facility complete		m ²	91.2			25,391.25	2,315,682.00	
	1) Earth work								
DSR 2014 16.3.9	Earth filling		m ³	4,800			320.90	1,540,320.00	
1.1.2	Carriage of Material by Mechanical Transport including loading, unloading and stacking with lead upto 5 KM	up to 5km	m ⁴	4,800.00			153.07	734,736.00	
	Total							4,590,738.00	
5. Protection work									
1) Concrete work									
1017	Cement concrete with 40 mm gauge approved stone ballast, coarse sand and cement in the proportion of 8:4:1 including supply of all materials, labour, T&P etc. required for proper		m ²	6.00			6,364.94	38,189.64	
1025	R.C.C. work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1.5:3 in columns excluding supply of reinforcement and its bending but including its fixing and binding the same with 0.50 mm thick binding wire (to be supplied by the contractor) including necessary centering and shuttering, supply of all materials,		m ²	187.50			12,715.80	2,384,212.50	
2) form work									
	Centering and shuttering including sturting, propping, etc. and removal of form work (Average rate for Foundation, Footings, Bases of Columns, Walls, Coulmns, Beams,								
DSR 2013 5 9.2	Wall		m ²	2,000.00			401.65	803,300.00	
	Total							3,225,702.14	
6. Bypass pipe (Storm water outfall)									
1) Earth Work									

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
<Civil/Building work>									
I. Rising Main									
	1) Dismantling/Reinstatement work								
	Dismantling of roads for laying of sewer including sorting out and stacking of serviceable materials and disposal of unserviceable materials upto a distance of 50m								
UPJN SOR 1266	Cement Concrete Pavement		m ²	1,010.0			1,013.71	1,023,847.10	
PWD-4	Reinstatement of dismantled roads after filling and proper compaction as per P.W.D. specification		m ²	1,010			2,228.00	2,250,280.00	
	2) Earth Work								
	Excavation up to following depths below G.L. for laying sewer line, manholes in ordinary soil (earth, sand, loam & clay) including cutting of joints pits ramming dressing, leveling, refilling of trenches in 20cm layer watering and ramming the same including removal of surplus earth or other dismantled material up to a								
UPJN SOR 3001	Excavation	0.00m – 1.50m B.G.L.	m ³	4,404.63			184.79	813,931.58	
DSR-2014 1.1.2	Carriage of materials: By Mechanical Transport including loading, unloading and stacking (Lead upto 5 Km away from the site)	up to 5 km	m ³	880.93			153.07	134,843.96	
	Backfilling								
1004	Sand filling including supply of all materials labour T&P etc. required for proper completion of work.	0.00m – 1.50m B.G.L.	m ²	546.48			917.49	501,389.94	
	3) Pipe installation work								
	DI Pipe installation	Dia 400mm	m	2,700			4,077.66	11,009,682.00	
	4) Valve installation work								
	Air valve installation	Dia 100mm	No.	6			74,375.00	446,250.00	
	Drain Valve installation	Dia 350mm	No.	3			74,375.00	223,125.00	
	5) Thrust block installation work								
	Thrust block installation	22.5 Degree Bend	No.	1			7,650.00	7,650.00	
	Thrust block installation	45 Degree Bend	No.	2			12,400.00	24,800.00	
	Thrust block installation	90 Degree Bend	No.	10			32,800.00	328,000.00	
	Total							16,763,799.58	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
<Civil/Building work>									
1. Piling Works									
DSR 2014 20.3.1	Pile installation	Dia 300mm	m	512			2,123.15	1,087,052.80	
2. RCC Works									
3) Concrete work									
	R.C.C. work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1.5:3 in columns excluding supply of reinforcement and its bending but including its fixing and binding the same with 0.50 mm thick binding wire (to be supplied by the contractor) including necessary centering and shuttering, supply of all materials,								
UPJN SOR 1025.i.	Pile Cap		m ³	87.12			12,715.80	1,107,800.50	
UPJN SOR 1025.i.	Column		m ³	8.04			12,715.80	102,235.03	
UPJN SOR 1025.i.	Beam		m ³	2.70			12,715.80	34,332.66	
UPJN SOR 1025.i.	Bracess		m ³	1.80			12,715.80	22,888.44	
UPJN SOR 1025.i.	Slab		m ³	7.29			12,715.80	92,698.18	
UPJN SOR 1025.i.	Slab (Ram Bagh Drain)		m ³	4.32			12,715.80	54,932.26	
UPJN SOR 1025.i.	Floor Slab (Ram Bagh Drain)		m ³	0.97			12,715.80	12,334.33	
UPJN SOR 1025.i.	Wall		m ³	12.60			12,715.80	160,219.08	
UPJN SOR 1025.i.	Wall (Ram Bagh Drain)		m ³	5.55			12,715.80	70,572.69	
UPJN SOR 1025.i.	Weir		m ³	0.34			12,715.80	4,323.37	
UPJN SOR 1025.i.	Weir (Ram Bagh Drain)		m ³	0.35			12,715.80	4,450.53	
	Total							1,666,787.07	
3. Re-bar Work									
UPJN SOR	Mild steel or iron work in plane work such as in R.C.C work (When not included in over all rates) wrought to the required shape as necessary including bending for the completion of work and including supply of all materials, labours, T&P etc. complete								
	Piles								
1151	Longitudinal bars 6 Nos. 10 Ø		kg	1,893.04			70.96	134,330.12	
1151	Stirrups 8 Ø - 200 C/C		kg	979.33			70.96	69,493.26	
	Pile Caps								
1151	Longitudinal Bars 16 Ø - 200 C/C at Top & Bottom		kg	3,647.26			70.96	258,809.57	
1151	Distribution Bars 16 Ø - 200 C/C at Top & Bottom		kg	3,647.26			70.96	258,809.57	
	Columns								
1151	Longitudinal bars 6 Nos 12 Ø		kg	340.75			70.96	24,179.62	
1151	Stirrups 8 Ø - 180 C/C		kg	185.10			70.96	13,134.70	
	Beam/Bracing								
1151	Longitudinal bars 3Nos. at bottom & 2Nos. at Top 12 Ø		kg	92.29			70.96	6,548.90	
1151	Stirrups 8 Ø - 180 C/C		kg	66.26			70.96	4,701.81	
1151	Longitudinal bars 2Nos. at bottom & 2Nos. at Top 12 Ø		kg	73.83			70.96	5,238.98	
1151	Stirrups 8 Ø - 180 C/C		kg	52.06			70.96	3,694.18	
	Slab								
1151	Longitudinal Bars 10 Ø - 200 C/C		kg	48.07			70.96	3,411.05	
1151	Distribution Bars 10 Ø - 200 C/C		kg	48.07			70.96	3,411.05	
	Slab (Ram Bagh Drain)								
1151	Longitudinal Bars 10 Ø - 200 C/C		kg	28.65			70.96	2,033.00	
1151	Distribution Bars 10 Ø - 200 C/C		kg	24.03			70.96	1,705.17	
	Wall								
1151	Longitudinal Bars 10 Ø - 200 C/C		kg	244.03			70.96	17,316.37	
1151	Distribution Bars 8 Ø - 200 C/C		kg	149.08			70.96	10,578.72	
	Wall (Ram Bagh Drain)								
1151	Longitudinal Bars 10 Ø - 200 C/C		kg	94.90			70.96	6,734.10	
1151	Distribution Bars 8 Ø - 200 C/C		kg	59.63			70.96	4,231.34	
	Weir								
1151	Longitudinal Bars 10 Ø - 200 C/C		kg	22.18			70.96	1,573.89	

	Items	Specification	Unit	Qty	P.C. Portion (Yen)		I.C. Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
1151	Distribution Bars 10 Ø - 200 C/C		kg	22.18			70.96	1,573.89	
	Weir (Ram Bagh Drain)								
1151	Longitudinal Bars 10 Ø - 200 C/C		kg	15.59			70.96	1,106.27	
1151	Distribution Bars 10 Ø - 200 C/C		kg	21.26			70.96	1,508.61	
	Total							834,124.17	
	4. Form work								
DSR 2013	Centering and shuttering including strutting, propping, etc. and removal of form work (Average rate for Foundation, Footings, Bases of Columns, Walls, Columns, Beams,								
5.9.1	Pile Cap		m ²	26.40			196.45	5,186.28	
5.9.6	Column		m ²	80.42			453.35	36,458.41	
5.9.5	Beam-1		m ²	18.00			332.15	5,978.70	
5.9.5	Beam-2		m ²	6.00			332.15	1,992.90	
5.9.5	Bracing-1		m ²	12.00			332.15	3,985.80	
5.9.5	Bracing-2		m ²	6.00			332.15	1,992.90	
5.9.4	Slab-1		m ²	14.58			401.65	5,856.06	
5.9.4	Slab-2		m ²	6.48			401.65	2,602.69	
5.9.2	Wall-1		m ²	68.04			360.80	24,548.83	
5.9.2	Wall-2		m ²	57.96			360.80	20,911.97	
5.9.2	Wall (Ram Bagh Drain)		m ²	27.72			360.80	10,001.38	
5.9.2	Weir		m ²	19.32			360.80	6,970.66	
5.9.2	Weir		m ²	2.56			360.80	923.65	
	Miscellaneous RCC, MS, Shuttering Works for Ram Bagh Interception		Ls	1			50,000.00	50,000.00	
	Total							177,410.23	
	5. Foot rest installation								
	foot rest		No.	20.00			311.60	6,232.00	
	6. Manual Bar Screen								
	Bar Screen Installation		No.	3			50,000.00	150,000.00	
	7. Sluice Gate								
	Gate Installation		No.	4			100,000.00	400,000.00	
	8. Installation & Commissioning								
	Installation & Commissioning work		Ls	4			50,000.00	200,000.00	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
<Civil/Building work>									
1. Earth work									
	Excavation	0.00m – 1.50m B.G.L.	m ³	1,880.25			184.79	347,451.40	
		1.51m – 3.00m B.G.L.	m ³	1,538.25			231.98	356,843.23	
		3.01m – 4.50m B.G.L.	m ³	1,196.25			291.27	348,431.74	
		4.51m – 6.00m B.G.L.	m ³	739.92			340.09	258,441.85	
		6.01m – 7.50m B.G.L.	m ³	33.57			443.48	14,887.00	
	transportation of excessive soil	up to 5 km	m ³	279.19			153.07	42,735.61	
	Total							1,368,790.83	
2. Barricading works									
	Barricade installation	H=2m	m	40.00			1,467.00	58,680.00	
	Foundation and pole installation		m ³	20.00			440.10	8,802.00	
	Total							67,482.00	
3. Shifting of utilities/site clearance									
	shifting utilities		m	380.00			300.00	114,000.00	
	site clearance		m	380.00			18.00	6,840.00	
	Total							120,840.00	
4. Shuttering work									
	Shuttering work	0.0m – 3.00m B.G.L.	m ²	1,140.00			388.56	442,958.40	
		3.01m – 6.00m B.G.L.	m ²	1,066.26			817.43	871,592.91	
		6.01m – 9.00m B.G.L.	m ²	28.67			939.71	26,941.49	
	Centering and shuttering including strutting propping etc and removal of form for Bedding, Foundation, footings, bases of columns etc		m ²	233.50			196.45	45,871.08	
	Total							1,387,363.88	
5. Bedding									
	PCC Bedding for Dia 400mm	4.5m – 6.0m B.G.L.	m	30.00			992.03	29,760.90	
	PCC Bedding for Dia 500mm	4.5m – 6.0m B.G.L.	m	120.00			1,216.36	145,963.20	
	PCC Bedding for Dia 900mm	4.5m – 6.0m B.G.L.	m	30.00			1,708.26	51,247.80	
	RCC Bedding for Dia 350mm	4.5m – 6.0m B.G.L.	m	80.00			908.10	72,648.00	
	RCC Bedding for Dia 400mm	4.5m – 6.0m B.G.L.	m	120.00			1,156.91	138,829.20	
	Total							438,449.10	
6. Manhole installation work									
	Manhole installation	Type-B 1.5m x 1.5m depth 4.5-6.0m	pc	7			171,210.00	1,198,470.00	
	Manhole installation	Type-C 6.0m x 7.5m depth 3-4.5m	pc	3			272,330.00	816,990.00	
	Total							2,015,460.00	
7. Pipe Installation Work									
	RCC NP3 Class	Dia. 350mm	m	80.00			1,112.00	88,960.00	
	RCC NP3 Class	Dia. 400mm	m	150.00			1,346.00	201,900.00	
	RCC NP3 Class	Dia. 500mm	m	120.00			1,744.00	209,280.00	
	RCC NP3 Class	Dia. 900mm	m	30.00			4,288.00	128,640.00	
	Pipe installation, Dia. 900mm	4.5m – 6.0m B.G.L.	m	30.00			1,823.14	54,694.20	
	Pipe installation, Dia. 500mm	4.5m – 6.0m B.G.L.	m	60.00			898.56	53,913.60	
	Pipe installation, Dia. 400mm	4.5m – 6.0m B.G.L.	m	30.00			679.18	20,375.40	
	Pipe installation, Dia. 400mm	6.0m – 7.5m B.G.L.	m	120.00			739.93	88,791.60	
	Pipe installation, Dia. 350mm	3.0m – 4.5m B.G.L.	m	80.00			624.54	49,963.20	
	Total							896,518.00	

9. Chunar

1 INR(India Rupee)= 1.57 JPY
 1 US\$= 105.5 JPY

Summary - Chunar I&D

Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
				Unit	Amount	Unit	Amount	
6.5 MLD STP Civil works		LS	1				69,000,360	
6.5 MLD STP Mechanical works		LS	1				39,831,000	
6.5 MLD STP Electrical works		LS	1				21,022,931	
MPS Civil works		LS	1				46,945,401	
MPS Mechanical works		LS	1				6,721,800	
MPS Electrical works		LS	1				8,450,010	
IPS-1		LS	1				28,430,579	
Interceptor		LS	1				107,878,640	
Septic Tank		LS	1				403,433	
Cost of sewer cleaning equipments, Flushing Van		LS	1				2,000,000	
Hiring of Godown and Site Office		LS	1				2,000,000	
Communication & Public Outreach		LS	1				1,000,000	
Environmental and Management Plan (EMP)		LS	1				1,330,000	
Governance and Accountability Action Plan (GAAP)		LS	1				2,510,000	
Total							145,552,652	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
<Civil/Building work>									
	STP								
	Civil work								
	Construction of STP		LS	1			52,812,500	52,812,500.00	
	Mechanical work							0.00	
	INLET GATE	Equipment cost	No.	2			230,000	460,000.00	
		Installation cost	No.	2			4,600	9,200.00	
	FINE SCREEN (MECHANICAL)	Equipment cost	No.	1			2,000,000	2,000,000.00	
		Installation cost	No.	1			40,000	40,000.00	
	FINE SCREEN (MANUAL)	Equipment cost	No.	1			250,000	250,000.00	
		Installation cost	No.	1			5,000	5,000.00	
	BELT CONVEYOR	Equipment cost	No.	1			400,000	400,000.00	
		Installation cost	No.	1			8,000	8,000.00	
	GRIT CHAMBER	Equipment cost	No.	2			1,100,000	2,200,000.00	
		Installation cost	No.	2			22,000	44,000.00	
	INLET GATE	Equipment cost	No.	2			220,000	440,000.00	
		Installation cost	No.	2			4,400	8,800.00	
	DECANTORS	Equipment cost	No.	2			5,600,000	11,200,000.00	
		Installation cost	No.	2			112,000	224,000.00	
	DIFFUSER	Equipment cost	No.	2			1,900,000	3,800,000.00	
		Installation cost	No.	2			38,000	76,000.00	
	PLC SCADA	Equipment cost	No.	2			1,000,000	2,000,000.00	
		Installation cost	No.	2			20,000	40,000.00	
	AIR BLOWER	Equipment cost	No.	3			550,000	1,650,000.00	
		Installation cost	No.	3			11,000	33,000.00	
	RAS PUMP	Equipment cost	No.	3			220,000	660,000.00	
		Installation cost	No.	3			4,400	13,200.00	
	SAS Pump	Equipment cost	No.	3			230,000	690,000.00	
		Installation cost	No.	3			4,600	13,800.00	
	HAND OPERATION CHAIN BLOC	Equipment cost	No.	2			100,000	200,000.00	
		Installation cost	No.	2			2,000	4,000.00	
	CHLORINE DOSING PUMP	Equipment cost	No.	3			100,000	300,000.00	
		Installation cost	No.	3			2,000	6,000.00	
	MIXERS FOR CLORINE SOLUTION	Equipment cost	No.	2			150,000	300,000.00	
		Installation cost	No.	2			3,000	6,000.00	
	DECHLORINE DOSING PUMP	Equipment cost	No.	3			100,000	300,000.00	
		Installation cost	No.	3			2,000	6,000.00	
	MIXER FOR DECLORINE	Equipment cost	No.	2			100,000	200,000.00	
		Installation cost	No.	2			2,000	4,000.00	
	ELECTRIC HOIST FOR CHEMICALS	Equipment cost	No.	1			500,000	500,000.00	
		Installation cost	No.	1			10,000	10,000.00	
	AIR BLOWER FOR DECHLORINE MIXING TANK	Equipment cost	No.	2			140,000	280,000.00	
		Installation cost	No.	2			2,800	5,600.00	
	SLUDGE THICKENER	Equipment cost	No.	1			1,100,000	1,100,000.00	
		Installation cost	No.	1			22,000	22,000.00	
	THICKENED SLUDGE PUMP	Equipment cost	No.	2			220,000	440,000.00	
		Installation cost	No.	2			4,400	8,800.00	

	Items	Specification	Unit	Qty	PC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	AIR BLOWER FOR CENTRIFUGAL FEED PUMP	Equipment cost	No	2			140,000	280,000.00	
		Installation cost	No	2			2,800	5,600.00	
	CENTRIFUGAL FEED PUMP	Equipment cost	No.	2			200,000	400,000.00	
		Installation cost	No.	2			4,000	8,000.00	
	CENTRIFUGAL	Equipment cost	No	2			3,400,000	6,800,000.00	
		Installation cost	No	2			68,000	136,000.00	
	BELT CONVEYOR	Equipment cost	No	1			400,000	400,000.00	
		Installation cost	No	1			8,000	8,000.00	
	ELECTRIC HOIST CRANE	Equipment cost	No	1			800,000	800,000.00	
		Installation cost	No	1			16,000	16,000.00	
	POLYELECTROLYTE DOSING SYSTEM	Equipment cost	No	2			150,000	300,000.00	
		Installation cost	No	2			3,000	6,000.00	
	POLYELECTROLYTE DOSING	Equipment cost	No	2			100,000	200,000.00	
		Installation cost	No	2			2,000	4,000.00	
	CENTRATE TRANSFER PUMP	Equipment cost	No	2			250,000	500,000.00	
		Installation cost	No	2			5,000	10,000.00	
	Total							39,831,000.00	
	Electrical work								
	Electrical Substation							0.00	
	Diesel Generator Set	Equipment cost	No	1			3,016,800	3,016,800.00	
	Diesel, Radiator cooling, 300 kVA, 415V, 3-phase, Service tank with 1 m3, Engine silencer with 85 dB, Bulk	Installation cost	No	1			301,700	301,700.00	
	LV Incoming Panel at Substation Transformer Secondary Panel	Equipment cost	No.	1			238,051	238,051.00	
	600 V, IP52, ACB 4P 800 A x 1, ACB 4P 630 x1	Installation cost	No	1			23,900	23,900.00	
	LV Feeder Panel No.2	Equipment cost	No	1			754,600	754,600.00	
	600 V, IP52, MCCB 4P 200 A x 6, MCCB 4P 100A x 7 Static capacitor 10kVar x 1, 20 kVar x1, 40 kVar x1,	Installation cost	No	1			75,500	75,500.00	
	Grit Chamber MCC	Equipment cost	No	1			378,500	378,500.00	
	600 V, IP52, power supply 8.25kWx1, rev. DOL 3.7kW x 3 DOL 7.5 kW x13,	Installation cost	No	1			37,900	37,900.00	
	Local Operation Panel for Fine screen	Equipment cost	No.	1			72,000	72,000.00	
	Stand type, 1 load, Change-over switch x1, On/Off switch x1 Status lights x2, alarm lights x 2, emergency stop button x1, outdoor	Installation cost	No	1			7,200	7,200.00	
	Local Operation Panel for Belt conveyer	Equipment cost	No	1			72,000	72,000.00	
	Stand type, 1 load, Change-over switch x1, On/Off switch x1 Status lights x2, alarm lights x 2, emergency stop button x1, outdoor	Installation cost	No	1			7,200	7,200.00	
	Local Operation Panel for Grit Chamber	Equipment cost	No.	2			72,000	144,000.00	
	Stand type, 1 load, Change-over switch x1, On/Off switch x1 Status lights x2, alarm lights x 2, emergency stop button x1, outdoor	Installation cost	No	2			7,200	14,400.00	
	Inlet Flow Meter	Equipment cost	No.	1			162,500	162,500.00	

		Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
						Unit Price	Amount	Unit Price	Amount	
		Ultrasonic type level transmitter with level-flow converter Partial flume	Installation cost	No.	1			16,300	16,300.00	
		Level Meter at Pre-fine screen	Equipment cost	No.	2			105,000	210,000.00	
		Ultrasonic type, range: 0-10m, accuracy: less than +0.5%FS	Installation cost	No.	2			10,500	21,000.00	
		Level Meter at Post-fine screen	Equipment cost	No.	2			105,000	210,000.00	
		Ultrasonic type, range: 0-10m, accuracy: less than +0.5%FS	Installation cost	No.	2			10,500	21,000.00	
		Cables and others	Equipment cost	No.	1			503,400	503,400.00	
			Installation cost	No.	1			50,400	50,400.00	
									0.00	
		SBR Process							0.00	
		Air Blower Starter Panel	Equipment cost	No.	3			408,000	1,224,000.00	
		600 V, IP52, VFD 55kW	Installation cost	No.	3			40,800	122,400.00	
		SBR MCC	Equipment cost	No.	1			581,800	581,800.00	
		600 V, IP52, Star-delta 30kWx6, DOL 7.5 kWx6, DOL 5.5 kWx13, Power supply 11 kW x2,	Installation cost	No.	1			58,200	58,200.00	
		Local Operation Panel for Air Blower	Equipment cost	No.	6			67,500	405,000.00	
		Stand type, 1 load, Change-over switch x1, On/Off switch x1 Status lights x2, alarm lights x 2, emergency stop button	Installation cost	No.	6			6,800	40,800.00	
		Local Operation Panel for RAS Pump	Equipment cost	No.	2			82,500	165,000.00	
		Stand type, 2 loads, Change-over switch x2, On/Off switch x2 Status lights x4, alarm lights x 4, emergency	Installation cost	No.	2			8,300	16,600.00	
		Local Operation Panel for SAS Pump	Equipment cost	No.	2			82,500	165,000.00	
		Stand type, 2 loads, Change-over switch x2, On/Off switch x3 Status lights x4, alarm lights x 4, emergency	Installation cost	No.	2			8,300	16,600.00	
		Local Operation Panel for Chlorine dosing Pump	Equipment cost	No.	1			82,500	82,500.00	
		Stand type, 2 loads, Change-over switch x2, On/Off switch x2 Status lights x4, alarm lights x 4, emergency	Installation cost	No.	1			8,300	8,300.00	
		Local Operation Panel for mixer for chlorine solution	Equipment cost	No.	1			82,500	82,500.00	
		Stand type, 2 loads, Change-over switch x2, On/Off switch x3 Status lights x4, alarm lights x 4, emergency	Installation cost	No.	1			8,300	8,300.00	
		Local Operation Panel for De-chlorine dosing Pump	Equipment cost	No.	1			82,500	82,500.00	
		Stand type, 2 loads, Change-over switch x2, On/Off switch x2 Status lights x4, alarm lights x 4, emergency	Installation cost	No.	1			8,300	8,300.00	
		Local Operation Panel for mixer for de-chlorine solution	Equipment cost	No.	1			82,500	82,500.00	
		Stand type, 2 loads, Change-over switch x2, On/Off switch x3 Status lights x4, alarm lights x 4, emergency stop button x2	Installation cost	No.	1			8,300	8,300.00	
		Local Operation Panel for air blower for de-chlorine tank	Equipment cost	No.	1			82,500	82,500.00	
		Stand type, 2 loads, Change-over switch x2, On/Off switch x3 Status lights x4, alarm lights x 4, emergency stop button x2	Installation cost	No.	1			8,300	8,300.00	
		DO Analyser	Equipment cost	No.	4			319,670	1,278,680.00	
		On-line, LDO type, range: 0-1 mg/l, accuracy: less than +0.5%FS	Installation cost	No.	4			32,000	128,000.00	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	MLSS Analyser	Equipment cost	No	1			335,000	335,000.00	
	On-line, turbidity light reflective type	Installation cost	No	1			33,500	33,500.00	
	RAS Flow Meter	Equipment cost	No	4			302,700	1,210,800.00	
	Electromagnetic type, 300mm dia., accuracy less than $\pm 0.5\%$ of rate range, 0-10 m ³ /sec	Installation cost	No	4			30,300	121,200.00	
	Cables and others	Equipment cost	No	1			713,100	713,100.00	
		Installation cost	No	1			71,400	71,400.00	
								0.00	
	Solid Process							0.00	
	Thickener MCC	Equipment cost	No	1			350,000	350,000.00	
	600 V, IP52, DOL 5.5 kW x 6, PF 100 AF x 2	Installation cost	No	1			35,000	35,000.00	
	Dewatering unit MCC	Equipment cost	No	1			600,000	600,000.00	
	600 V, IP52, DOL 5.5 kW x 21, DOL 7.5 kW x 4, DOL 2.2 kW x 4, Power supply 22.0 kW x 3	Installation cost	No	1			60,000	60,000.00	
	SAS Flow Meter	Equipment cost	No	1			219,900	219,900.00	
	Electromagnetic type, 200mm dia., accuracy less than $\pm 0.5\%$ of rate range, 0-10 m ³ /sec	Installation cost	No	1			22,000	22,000.00	
	Thickened sludge feed flow (Centrifuge feed flow)	Equipment cost	No	2			219,900	439,800.00	
	Electromagnetic type, 200mm dia., accuracy less than $\pm 0.5\%$ of rate range, 0-10 m ³ /sec	Installation cost	No	2			22,000	44,000.00	
	Local Operation Panel for Sludge Thickener	Equipment cost	No	1			68,900	68,900.00	
	Stand type, 1 load, Change-over switch x1, On/Off switch x1 Status lights x2, alarm lights x 2, emergency stop button x1, Explosion proof	Installation cost	No	1			6,900	6,900.00	
	Local Operation Panel for thickened sludge pump	Equipment cost	No	1			82,500	82,500.00	
	Stand type, 2 loads, Change-over switch x2, On/Off switch x2 Status lights x4, alarm lights x 4, emergency	Installation cost	No	1			8,300	8,300.00	
	Local Operation Panel for air blower centrifuge feed sump	Equipment cost	No	1			82,500	82,500.00	
	Stand type, 2 loads, Change-over switch x2, On/Off switch x2 Status lights x4, alarm lights x 4, emergency	Installation cost	No	1			8,300	8,300.00	
	Local Operation Panel for Centrifuge Feed Pumps	Equipment cost	No	1			82,500	82,500.00	
	Stand type, 2 loads, Change-over switch x2, On/Off switch x2 Status lights x4, alarm lights x 4, emergency	Installation cost	No	1			8,300	8,300.00	
	Local Operation Panel for Belt Conveyer	Equipment cost	No	1			68,900	68,900.00	
	Stand type, 1 load, Change-over switch x1, On/Off switch x1 Status lights x2, alarm lights x 2, emergency stop button x1, Explosion proof	Installation cost	No	1			6,900	6,900.00	
	Local Operation Panel for Polyelectrolyte Dosing System	Equipment cost	No	2			68,900	137,800.00	
	Stand type, 1 load, Change-over switch x1, On/Off switch x1 Status lights x2, alarm lights x 2, emergency stop button x1, Explosion proof	Installation cost	No	2			6,900	13,800.00	
	Local Operation Panel for Polyelectrolyte Dosing Pump	Equipment cost	No	1			82,500	82,500.00	
	Stand type, 2 loads, Change-over switch x2, On/Off switch x2 Status lights x4, alarm lights x 4, emergency	Installation cost	No	1			8,300	8,300.00	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	Local Operation Panel for Centrate Transfer Pump	Equipment cost	No.	1			82,500	82,500.00	
	Stand type, 2 loads, Change-over switch x2, On/Off switch x2 Status lights x4, alarm lights x 4, emergency	Installation cost	No.	1			8,300	8,300.00	
	Level Meter in Thickened Sludge Feed Sump	Equipment cost	No.	2			105,000	210,000.00	
	Ultrasonic type, range: 0-10m, accuracy: less than +0.5%FS	Installation cost	No.	2			10,500	21,000.00	
	Level Meter in Polyelectrolyte solution	Equipment cost	No.	2			105,000	210,000.00	
	Ultrasonic type, range: 0-10m, accuracy: less than +0.5%FS	Installation cost	No.	2			10,500	21,000.00	
	Polymer Dosing Flow Meter	Equipment cost	No.	2			118,500	237,000.00	
	Electromagnetic type, 100mm dia., accuracy: less than +0.5% of rate range: 0-10 m/sec	Installation cost	No.	2			11,900	23,800.00	
	Cables and others	Equipment cost	No.	1			449,500	449,500.00	
		Installation cost	No.	1			45,000	45,000.00	
	SCADA System Components								
	PLC Panel for solid process	Equipment cost	No.	1			950,000	950,000.00	
	Redundant hot standby configuration, LCD 14" touch panel IP 62, AI: 20, AO: 15, DI: 90, DO:50, Pulse input:-	Installation cost	No.	1			19,000	19,000.00	
	Operator Station	Equipment cost	No.	1			1,500,000	1,500,000.00	
	OS: Lates windows, Main memory: 64 GB, HDD, 1 TB Monitor: dual LCD 32", CPU: Intel iCore 7, required	Installation cost	No.	1			30,000	30,000.00	
	UPS	Equipment cost	No.	1			750,000	750,000.00	
	IP52, Inverter 10kVA, Battery 100AH Lead sealed type, Industrial use,	Installation cost	No.	1			75,000	75,000.00	
	MANAGED Ethernet switches,	Equipment cost	No.	1			85,000	85,000.00	
		Installation cost	No.	1			1,700	1,700.00	
	Priner -1	Equipment cost	No.	1			130,000	130,000.00	
	Multifunction clor printer with printing, photocopying, scaaning etc.,	Installation cost	No.	1			2,600	2,600.00	
	Priner -2	Equipment cost	No.	1			50,000	50,000.00	
	Laserjet printer with A3 size	Installation cost	No.	1			1,000	1,000.00	
	Hardware based Firewall	Equipment cost	No.	1			200,000	200,000.00	
		Installation cost	No.	1			4,000	4,000.00	
	Total							21,022,931.00	
	Other works								
	INTERNAL DEVELOPEMNT OF THE ROADS								
	Construction of Bitumen Road		m2	1,250			1,921	2,401,339.29	
	Providing and laying 60 mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the		m2	150			557	83,617.50	
	Landscaping and Protection Works								
	Grassing with selection No. 1 grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the good earth shall be paid for separately).							0.00	
	In rows 5 cm apart in both directions		m2	600			841	504,750.00	
								0.00	
	Road side Plantation of Trees		Each	50			500	25,000.00	

	Items	Specification	Unit	Qty	PC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
								0.00	
		Providing and fixing Cautionary / warning sign boards of equilateral triangular shape having each side of 900 mm with support length of 3650	Each	10			3,532	35,323.50	
		1) ADMINISTRATIVE BUILDINGS							
PAR20 13, CPWD	Item 1.0(b), pg.3	RCC FRAMED STRUCTURE (Normal Buildings) (Specifications as per Annexure -V)							
	Item 1.1(b), pg.3	RCC framed structure upto six storeys	m ²	409			19,000	7,771,000.00	
	Item 1.1.1(b), pg.3	Floor ht. 3.35 mtr (office)	m ²				270	0.00	
	Item 1.2.3, pg.3	Every 0.3 mt additional height of floor above normal floor height of 3.35 mt./ 2.90 mtr	m ²	409			1,350	552,150.00	
	from above	Considering average height increase of 1.5 m	m ²	409			1,140	466,260.00	
	Item 1.2.8, pg.3	Resisting Earthquake forces						0.00	
		Miscellaneous & Contingencies (site clearing, filling, roads, etc.)		10%			8,789,410	878,941.00	
		2) STAFF QUARTERS							
PAR20 13, CPWD	2., page 5	Load Bearing Construction							
	2.2.2.	Double Storeyed Type I,II,III & Servant Qtrs	m ²	137			11,300	1,545,840.00	
	2.6.2.	Extra for resisting earthquake forces buildings of two storeys or more in Zone III or IV	m ²	137			520	71,136.00	
	2.9.1.	Fire Fighting-with wet riser system	m ²	68			500	34,200.00	
								0.00	
	3.1.	Internal water supply & sanitary installations	LS	12.0%			1,651,176	198,141.12	
	3.2.	External service connections	LS	5.0%			1,651,176	82,558.80	
	3.3.	Internal electric installations	LS	12.5%			1,651,176	206,397.00	
	3.6.7.	Quality assurance	LS	1.0%			1,651,176	16,511.76	
	5.1.	Overhead tank without independent	litres	2,000			15	30,000.00	
	6.3.	Sewer	m ²	274			110	30,096.00	
		3) BOUNDARY WALL							
		Construction of Boundary Wall in Brick Masonary	Rm	300			3,949	1,184,700.00	
		Providing and fixing of M.S. Gate & Wicket Gate at STP	No.	1			69,898	69,898.00	
		Total						16,187,859.97	
		MPS							
		Civil work							
		Excavation for depth as given below in ordinary soil (loam, clay and sand) for foundation including lift upto 1.5 M and lead upto 50 M watering, filling and ramming the excavated earth into the trenches or foundation and removal surplus earth upto distance of 50 M from the foundation trenches.						0.00	
	UPJN_SOR_2014-15_3001	0.0 - 1.50 M	m ³	111			185	20,506.85	
	UPJN_SOR_2014-15_3002	1.50 - 3.00 M	m ³	111			232	25,743.70	
								0.00	
		Sinking of well true to vertical, through all types of soil and rock, as shown against each case, (other than pneumatic method of sinking) complete as per drawing and technical specifications including all material, labour, machinery, lighting, guarding and maintenance of diversion complete as per clause 1200 of MoRT&H						0.00	
	RUDIP_SOR_2013_13.13.2.2	3.00 - 10.00 m	M				15,720	0.00	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
RUDIP_SOR_2013_1 3.13.2.3+	10.00-11.00 m		M				18,864	0.00	
RUDIP_SOR_2013_1 3.13.2.4	11.00-12.00 m		M				22,637	0.00	
RUDIP_SOR_2013_1 3.13.2.5	12.00-13.00 m		M				27,164	0.00	
								0.00	
	PCC work in 1:2:4 (M-15) cement coarse sand and 20 mm gauge approved stone ballast including supply of all materials, labour, T&P etc. required for proper completion of work.							0.00	
UPJN_SOR_2014-15_1015	(I) Concrete plug at bottom.		m3	59			8,557	505,499.86	
UPJN_SOR_2014-15_1015	(II) Concrete curb at the bottom		m3	13			8,557	111,001.29	
								0.00	
UPJN_SOR_2014-15_1017	PCC 1:4:8 in cement, Coarse sand and 40mm stone ballast below concrete plugging		m3	20			6,365	124,345.84	
								0.00	
	Supply and laying R.C.C. 1:1½:3 in cement and coarse sand and 10-20 mm gauge stone ballast, including labour T&P etc. excluding supply of reinforcement and including fixing and binding required for proper completion of work and supply necessary centering							0.00	
UPJN_SOR_2014-15_1025	0.00 -1.50 M 0.785x(D1^2-D2^2)x1.50		m3	22			12,716	283,820.40	
UPJN_SOR_2014-15_1025	1.50 -3.00 M		m3	22			13,097	292,335.01	
UPJN_SOR_2014-15_1025	3.00 -4.50 M		m3	22			13,606	303,687.83	
UPJN_SOR_2014-15_1025	4.50 -6.00 M		m3	22			14,242	317,878.85	
UPJN_SOR_2014-15_1025	6.00 -7.50 M		m3	22			15,259	340,584.48	
UPJN_SOR_2014-15_1025	7.50 -9.00 M		m3	15			16,531	245,977.68	
UPJN_SOR_2014-15_1025	9.00-10.50 M		m3	0			17,802	0.00	
UPJN_SOR_2014-15_1025	10.50-12.0 M		m3	0			19,074	0.00	
								0.00	
								0.00	
	Same as Item No. 5 but for the following							0.00	
UPJN_SOR_2014-15_1019	Floor for Pump House		m3	40			10,013	405,170.64	
UPJN_SOR_2014-15_1019	Roof Slab		m3	40			10,013	405,170.64	
UPJN_SOR_2014-15_1019	Ring Beam		m3	31			10,013	312,990.48	
UPJN_SOR_2014-15_1019	Beams at floor		m3	33			10,013	330,436.59	
UPJN_SOR_2014-15_1019	Lintal Door 2 nos.		m3	2			10,013	20,026.46	
UPJN_SOR_2014-15_1019	Lintal windows 4 nos.		m3	6			10,013	60,079.38	
UPJN_SOR_2014-15_1019	Ventilators 2 nos.		m3	2			10,013	15,019.85	
UPJN_SOR_2014-15_1019	Sunshade							0.00	
	(a) Door		m3					0.00	
	(b) Windows		m3					0.00	
	Gantry Beam		m3					0.00	
	Stairs		m3					0.00	
UPJN_SOR_2014-15_1019	Sub total		m3				10,013	0.00	
	Same as item No. 5 but in 1: 1½:3 for							0.00	
UPJN_SOR_2014-15_1025	Raft		m3	36			12,716	452,549.29	
	(ii) Well Curb 3.14x9.3x0.5x0.30x1.00		M4					0.00	
	0.785x9.30x9.30x0.30		M5					0.00	
UPJN_SOR_2014-15_109.1			M6					0.00	
	Screen Platform		m3	8			12,716	95,826.27	
	Pumping and bailing out of sub-soil water including supply of all labour, T&P fuel etc. during construction.		LS	1			60,000	60,000.00	
								0.00	

	Items	Specification	Unit	Qty	P.C Portion (Yen)		I.C Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
UPJN_SOR_2014-15_1027+1035	First Class brick work in 1:6 cement and local sand mortar in superstructure including supply of all material, labour, T&P etc. for proper completion of		m ³	67			5,454	363,496.18	
								0.00	
	Mild steel of iron work in plain work such as in R.C.C. and R.B. work (when not including in overall rates) wrought required shape as necessary including bending for completion of work and including supply of steel wastage of the							0.00	
UPJN_SOR_2014-15_1151	Raft @2%		Nr	15			70,957	1,032,706.90	
UPJN_SOR_2014-15_1149	Beam (including ring and gantry beam) @2%		Nr	39			8,913	346,304.65	
UPJN_SOR_2014-15_1149	Slab and Roof Slab @1%		Nr	21			8,913	183,418.21	
UPJN_SOR_2014-15_1149	Lintels and Sunshades @1%		Nr	24			8,913	209,892.67	
UPJN_SOR_2014-15_1149	Staircase @1%		Nr	6			8,913	54,712.02	
UPJN_SOR_2014-15_1151	Stening Wall @2%		Nr	298			70,957	21,135,678.28	
UPJN_SOR_2014-15_1150	Cutting Edge @60kg/m		Ton	17			9,512	161,219.52	
								0.00	
								0.00	
	Providing and fixing steel glazed doors, windows and ventilator of standard rolled steel section joint welded with 15% 3 mm tuge 10 mm long with steel tuges embedded in cement concrete blocks 15x10x10 cm of 1:3:6 or with fixing slips or with bolts and nuts as required including providing and fixing glass panes with glazing chip sand spuds metal such putty of approved made complete cost of approved steel primer excluding the cost of metal bending and other fitting except		m ²	25			2,805	71,247.00	
								0.00	
	Supply of oxidised iron fitting for doors and windows.		m ²	23			410	9,890.00	
								0.00	
	Supply and fix iron grill including all labour T&P etc. as per design and direction of Engineer Incharge complete in all respect of work.		m ²	22			4,500	99,000.00	
								0.00	
UPJN_SOR_2014-15_1235	Painting new iron work in small areas or over new wood work with one coat of primary and two coats of approved enamel including supply of all material, labour, T&P etc. required for proper		m ²	398			102	40,406.98	
								0.00	
UPJN_SOR_2014-15_1187.i	12 mm thick cement plaster with 1:6 cement and local sand mortar including supply of all materials labour T&P etc. required for proper completion of work.		m ²	317			182	57,609.68	
								0.00	
UPJN_SOR_2014-15_1253	Snowcem painting two coats of required shade including supply of all material and labour, T&P etc. required for proper completion of work on outside the pump house sunshade etc.		m ²	345			18	6,301.52	
								0.00	
UPJN_SOR_2013-14_1219	Granolythic marble 25 mm thick consisting of 20 mm thick layer of cement approved coarse sand and 12 mm thick surface coat with ordinary black or grey of mixed marbles chips 8 mm in approved of 1:2 and polished by hand or by machine and finally finished with french mension polish or any other approved polish excluding base concrete and including supply of all materials, labour, T&P etc. required for		m ²	65			1,089	70,941.29	
								0.00	
	Supply and fix 25 mm G.I. Pipe railing on angle iron post including supply of all materials, labour, T&P required for							0.00	
	Angel iron 50 mm x 50 mm x 6 mm		m	197			336	66,114.72	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	G.I Pipe 20 mm dia in three rows		m	285			190	54,172.80	
								0.00	
	Supply and fix chequered plates including cost of all materials, labour, T&P etc.		m2	41			2,100	86,625.00	
								0.00	
	25 mm thick in 1:2:4 plain cement concrete floor with cement approved C.S. and 3/6 graded approved stone laid in panel finished with 3 mm floating coat of neat cement or cement and marble dust in ratio of 1:5 specified overlap including 75 mm thick base concrete of brick ballast 40 mm with local sand and cement in ratio of 8:4:1 and removing any overlapping materials at the joints of panels if and giving there including supply of all material, labour, T&P etc. required for proper completion of work.		m2	52			572	29,782.96	
	Other Building Works Based in area							0.00	
CPWD 1.1.1 (B)	a) Operation Room		sqm	9			21,760	195,840.00	
CPWD 1.1.1 (B)	b) HT Room		sqm	9			21,760	195,840.00	
CPWD 1.1.1 (B)	c) Transformer Yard and Generator Room		sqm	20			21,760	435,200.00	
								0.00	
	Site clearance and other unforeseen items		LS	1			10,000	10,000.00	
								0.00	
								0.00	
								0.00	
Unit Estimate attached	Construction of boundary Wall in Brick Masonary - (230 mm thick, 1 mtr in Length and 1.8 mtr in Height)		Rm	80			5,792	463,366.47	
Unit Estimate attached	M.S. Gate (3.6 Mtr Wide) with Wicket Gate (1.2 Mtr Wide)		No	1			71,348	71,347.98	
								0.00	
	Rising Main							0.00	
	Supply of DI K9 Pipe , 350 mm Dia.		m	30			5,361	160,842.00	
	Spacials @ 10% of Cost of pipe		LS	10%			160,842	16,084.20	
								0.00	
	Civil							0.00	
	Excavation for pipe line in ordinary soil with lift upto 1.5 m and lead upto 50 m including refilling , watering and ramming of excavated earth in trenches after laying pipe line, removal and disposal of surplus material upto a		m3	45			183	8,253.00	
	Laying Of pipe		m3	30			1,548	46,426.30	
								0.00	
	Total							30,413,371.72	
	Mechanical works								
	INLET GATE	Equipment cost	No	2			290,000	580,000.00	
		Installation cost	No	2			5,800	11,600.00	
								0.00	
	COARSE SCREEN (MECHANICAL)	Equipment cost	No	1			2,000,000	2,000,000.00	
		Installation cost	No	1			40,000	40,000.00	
								0.00	
	COARSE SCREEN (MANUAL)	Equipment cost	No	1			210,000	210,000.00	
		Installation cost	No	1			4,200	4,200.00	
								0.00	
	BELT CONVEYOR	Equipment cost	No	1			400,000	400,000.00	
		Installation cost	No	1			8,000	8,000.00	
								0.00	
	SEWAGE PUMP	Equipment cost	No	6			450,000	2,700,000.00	
		Installation cost	No	6			9,000	54,000.00	
								0.00	
	ELECTRIC HOIST	Equipment cost	No	1			700,000	700,000.00	
		Installation cost	No	1			14,000	14,000.00	
								0.00	
	Total							6,721,800.00	
								0.00	

	Items	Specification	Unit	Qty	PC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	Electrical works							0.00	
	Electrical Substation							0.00	
	Diesel Generator Set	Equipment cost	No.	1			1,797,510	1,797,510.00	
	Diesel, Radiator cooling, 100 kVA, 415V, 3-phase, Service tank with 1 m3, Engine silencer with 85 dB, Bulk	Installation cost	No.	1			179,800	179,800.00	
	HV Incoming Panel from existing distribution panel	Equipment cost	No.	1			2,723,700	2,723,700.00	
	IP52, 12 kV VCB 24 kV, 25 kA, 630 A	Installation cost	No.	1			272,400	272,400.00	
	Power transformer at substation	Equipment cost	No.	1			600,000	600,000.00	
	Oil filled type, 22/0 415-0.24 kV, 200 kVA, IP52, Insulation class F	Installation cost	No.	1			60,000	60,000.00	
	MPS MCC	Equipment cost	No.	1			302,800	302,800.00	
	600 V, IP52, power supply 8.25kW x1, rev. DOL 3.7kW x 3 DOL 7.5 kW x1	Installation cost	No.	1			30,300	30,300.00	
	Local Operation Panel for Sewage	Equipment cost	No.	6			72,000	432,000.00	
	Stand type, 1 load, Change-over switch x1, On/Off switch x1, Status lights x2, alarm lights x 2, emergency stop button x1, outdoor	Installation cost	No.	6			7,200	43,200.00	
	Inlet Flow Meter	Equipment cost	No.	1			414,000	414,000.00	
	Electromagnetic type, 400mm dia, accuracy: less than $\pm 0.5\%$ of rate range: 0-10 m/sec	Installation cost	No.	1			41,400	41,400.00	
	Level Meter in wet well	Equipment cost	No.	1			105,000	105,000.00	
	Ultrasonic type, range: 0-10m, accuracy: less than $\pm 0.5\%$ FS	Installation cost	No.	1			10,500	10,500.00	
	Level Meter at Pre-fine screen	Equipment cost	No.	1			105,000	105,000.00	
	Ultrasonic type, range: 0-10m, accuracy: less than $\pm 0.5\%$ FS	Installation cost	No.	1			10,500	10,500.00	
	Level Meter at Post-fine screen	Equipment cost	No.	1			105,000	105,000.00	
	Ultrasonic type, range: 0-10m, accuracy: less than $\pm 0.5\%$ FS	Installation cost	No.	1			10,500	10,500.00	
	Cables and others	Equipment cost	No.	1			215,800	215,800.00	
		Installation cost	No.	1			21,600	21,600.00	
								0.00	
	SCADA System Components							0.00	
	PLC Panel for solid process	Equipment cost	No.	1			950,000	950,000.00	
	Redundant hot standby configuration, LCD 14" touch panel IP 62, AI: 20, AO: 15, DI: 90, DO: 50, Pulse input:-	Installation cost	No.	1			19,000	19,000.00	
								0.00	
	Total							8,450,010.00	
	Treated effluent reuse line								
	DISMANTLING AND REINSTATEMENT OF EXISTING ROADS								
	DISMANTLING WORK								
	Dismantling manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-Charge.								
15.43.2 - DSR 2014		a) Bitumen Road	m2	573			159	91,087.94	
								0.00	
	REINSTATEMENT WORK							0.00	
UP PWD 2013		Reinstatement of Existing Bitumen Road - Owned by Nagar Nigam	m2	573			3,634	2,081,191.80	
								0.00	
	EARTH WORK (SEWER)							0.00	
								0.00	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
2.9-& 2.26.2_DSR_2014	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.							0.00	
2.9.1 & 2.26.2 DSR 2014	Ordinary Rock							0.00	
	a) 0.0 to 1.5 mtr B.G.L		m3	6,647			264	1,751,537.20	
	b) 1.5 to 3.0 mtr B.G.L		m3	681			346	235,967.10	
	c) 3.0 to 4.5 mtr B.G.L		m3				429	0.00	
	d) 4.5 to 6.0 mtr B.G.L		m3				512	0.00	
	e) 6.0 to 9.0 mtr B.G.L		m3				595	0.00	
								0.00	
	Excavation by manually or mechanically up to following depths below G.L. for laying sewer line, in ordinary soil (earth, sand, loam & clay) including cutting of joints pits ramming dressing, leveling by manually or mechanically, refilling of trenches in 15cm layer watering and ramming the same including removal of surplus earth or other dismantled material up to a distance of 50m from the centre of trenches. (Excavation for Manhole is							0.00	
3001 - SOR_U.P. Jal Nigam Varanasi 2014-15	a) 0.0 to 1.5 mtr B.G.L		m3	2,849			185	526,429.75	
3002 - SOR_U.P. Jal Nigam Varanasi 2014-15	b) 1.5 to 3.0 mtr B.G.L		m3	292			232	67,714.96	
3003 - SOR_U.P. Jal Nigam Varanasi 2014-15	c) 3.0 to 4.5 mtr B.G.L		m3				291	0.00	
3004 - SOR_U.P. Jal Nigam Varanasi 2014-15	d) 4.5 to 6.0 mtr B.G.L		m3				340	0.00	
3006 - SOR_U.P. Jal Nigam Varanasi 2014-15	e) 6.0 to 9.0 mtr B.G.L		m3				443	0.00	
								0.00	
RA Attached	Disposal of excavated excess earth away from the site including conveyance of material up to an average lead of 1 Km away from the site and corresponding required lift, loading, unloading etc complete as directed by the engineer-in-charge (The quantity is net quantity of capacity of tractor after deduction of 20% for							0.00	
	By Mechanical Transport including loading, unloading and stacking (Lead upto 2 Km away from the site)		m3	1,017			247	250,880.17	
								0.00	
	TIMBERING WORK							0.00	
								0.00	
	Providing and fixing open timbering in trenches up to 3m deep, consisting of 40mm thick approved country wood plank for poling board, 125x75mm Indian Sal wood wallers and 100mm diameter Sal wood ballies for shuttering at 1.50m c/c including removal after laying of sewers. (Measurement to be taken of the face area timbered).							0.00	
3041 - SOR_U.P. Jal Nigam Varanasi 2014-15	a) 1.5 to 3.0 mtr B.G.L		m2	5,543			389	2,153,788.08	
3042 - SOR_U.P. Jal Nigam Varanasi 2013-2014	b) 3.0 to 6.0 mtr B.G.L		m2	0			469.61	0.00	
3043 - SOR_U.P. Jal Nigam Varanasi 2013-2014	a) 6.0 to 9.0 mtr B.G.L.		m2	0			575.93	0.00	
								0.00	

		Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
						Unit Price	Amount	Unit Price	Amount	
		Providing and fixing close timbering in trenches for the following depths below G.L. consisting of 40mm thick approved country wood plank for poling board 125x75mm Indian Sal wood walers and 100mm diameter Sal wood ballies for shuttering at 1.50m c/c including removal after laying of sewers (Measurement to be taken of the							0.00	
	3032 - SOR_U.P. Jal Nigam Varanasi 2013-2014	a) 1.5 to 3.0 mtr B.G.L.		m2	0			633.77	0.00	
	3032 - SOR_U.P. Jal Nigam Varanasi 2014-15	3.0 to 4.5 mtr B.G.L.		m2	924			644	594,747.28	
									0.00	
		SUPPLY & LAYING OF R.C.C. PIPE							0.00	
		Supply and cutting to site RCC NP3 pipes (with g/s ends) as per IS - 458 - 2003 (Amended up to date) including all taxes (Central and Local) with Rubber gaskets (EPDM/SBR) as per IS 5382-1985 or (Amended up to date) including cost of Rubber gaskets labour required, transportation, loading, unloading & stacking etc (excluding cost of laying, jointing, testing and commissioning). The pipe shall be ISI	d) 350 mm dia RCC pipe	m	3,695			1,343	4,963,864.48	
		Cartage of RCC hume pipe NP3 class and specials from store to the site of work laying of the same pipe in to the trenches in various depth, due to alignment checking the point laying sewer pipe with rubber ring and Jointing materials including excavation of the below invert level of pipe and testing of laid pipe line complete excluding the cost of excavation of earth and refilling of trenches from							0.00	
	3201- SOR_U.P. Jal Nigam Varanasi 2014-15	b) 350 mm dia RCC pipe	1.5 to 3.0 Mtr B.G.L.	m	3,695			551	2,034,395.65	
									0.00	
		MANHOLES IN BRICK MASONARY							0.00	
		CIRCULAR BRICK MANHOLE							0.00	
		Construction of Brick Circular Manhole in first Class Brick of following Sizes in cement mortar 1:4, C.C. top slab with 1:1.5:3, Bed concrete 1:1.5:3, PCC 1:3:6, inside and outside plastering 12 mm thick with cement mortar 1:3 finished with floating coat of neat cement and making channels in Cement concrete with 1:1.5:3, finished with Floating coat of neat cement complete with including Plastic Encapsulated M.S. foot Rest staggered at 0.375 mtr interval, including excavation, reinforcement and Formwork, SFRC Heavy duty frame and cover as per standard design and drawing.							0.00	
		e) 350 mm dia Sewer Pipe	1.5 to 3.0 mtr ht with 900 mm Manhole Dia	m	38			35,156	1,335,942.79	
									0.00	
		MISCELLANEOUS							0.00	
		Providing and fixing in position CI Puddle collar (approx. 1m length)		Nos	38			9,064	344,432.00	
		200 mm dia							0.00	
		Provision for shifting & reinstatement of utilities e.g. electric & telephone cable/ poles, water lines drains etc. during excavation & laying of sewers.		Ls	1			100,000	100,000.00	
									0.00	
		Total							16,532,029.20	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
<Civil/Building work>									
	Civil work excavation for retaining wall for construction of sump-cum-pump house in ordinary soil including filling watering ramming and disposal of surplus soil upto a distance of 50 M in wet condition		m ³	75			185	13,925.77	
UPJN SOR_2014-15_3001	0.00 - 1.50 M		m ³	75			232	17,482.01	
UPJN SOR_2014-15_3002	1.50 - 3.00 M		m ³	75			291	21,950.11	
UPJN SOR_2014-15_3003	3.00 - 4.50 M		m ³	75			340	25,629.18	
UPJN SOR_2014-15_3004	4.50 - 6.00 M							0.00	
	Same as above but in soil mixed with kankar etc.							0.00	
	Sheet piling & timbering during the excavation and construction of works including all material, labour, T&P etc complete required for proper completion of the work and its dismantling after completion of work.		m ³	61			1,900	116,310.06	
UPJN SOR_2014-15_3050	0.00 - 3.00 M		m ³	61			2,626	160,766.10	
UPJN SOR_2014-15_3051	3.00 - 6.00 M		m ³	10			6,365	63,330.36	
UPJN SOR_2014-15_1017	Supply and lay PCC 1:4:8 in cement, fine sand and 40mm brick ballast in foundation including supply of all labour, T&P in wet condition							0.00	
								0.00	
	Reinforced cement concrete work 1:2:3 in raft foundation side wall excluding cost of centering and shuttering and reinforcement		m ³	2			8,371	20,535.75	
UPJN SOR_2014-15_1023	Raft		m ³	7			8,371	61,607.24	
UPJN SOR_2014-15_1023	0.00 - 1.50 M		m ³	7			8,622	63,455.46	
	1.50 - 3.00 M		m ³	7			8,881	65,359.12	
	3.00 - 4.50 M		m ³	7			9,148	67,319.90	
	4.50 - 6.00 M							0.00	
			m ³	10			12,904	126,621.29	
UPJN SOR_2014-15_1022	Same as above but in ring beam at plinth level and floor level.		m ³	28			12,904	364,669.30	
	Screen Slab							0.00	
								0.00	
UPJN SOR_2014-15_1022	R.C.C. 1:2:3 in floor slab of pump house Less: for opening.							0.00	
			m ³	4			12,904.08	56,726.34	
								0.00	
UPJN SOR_2014-15_1022	R.C.C. 1:2:3 in roof slab.		m ³	10			12,904	129,660.20	
								0.00	
								0.00	
UPJN SOR_2014-15_1021	R.C.C. 1:2:3 in cement coarse sand and 10-20mm grit for							0.00	
	Staircase			2				0.00	
	(i) Slab			0				0.00	
	(ii) Beam		m ³	2			11,329	22,430.73	
								0.00	
								0.00	
DSR_2014_4.3.2	Centering and shuttering including strutting propping etc. and removal of							0.00	
10% inflation	(a) Wall		M2	39				0.00	
	(i) Wall inside		M2	36				0.00	
	(ii) Wall outside							0.00	
	(b) Slabs		M2	50				0.00	
	(i) Floor		M2	50				0.00	
	(ii) Roof		M2	24				0.00	
	(c) Staircase		M2	1				0.00	
			M2	201			397	79,574.44	
								0.00	
								0.00	
	Reinforcement of R.C.C. work including, Straightening, cutting, binding in position complete and mild		Kg	1,275				0.00	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	(a) [In slab 1% of 8(a) + 8(b) + 9(i)]x		Kg.	5,007				0.00	
	(b) [for Raft and wall 2% of 6(a)+(b)]x7850		Kg.	6,282				0.00	
UPJN_SOR_2014-15_1151			Qtl.	63			7,096	445,769.45	
								0.00	
				10				0.00	
UPJN_SOR_2014-15_1029	Brick work in 1:6 in pump house.			-1				0.00	
	Less: for Doors & Windows			-1				0.00	
			m3	8			5,334	43,795.10	
								0.00	
UPJN_SOR_2014-15_1190	12mm thick plaster in 1:6 in pump		M2	126			135	16,918.32	
	Inner & Outer							0.00	
	Deduction for door & window			-1				0.00	
				-1				0.00	
			m3	-1			135	-143.46	
			Kg.	243			91	22,015.80	
	Supply and fixing of I.S.M.B. 250 @ Kg/M 37.30 and M.S. grill, door including one coat of redoxide and two coats of black Japan paint including fabrication, supply and fixing of		Kg.	500			75	37,500.00	
	Provision for water proofing		No.	1			3,000	3,000.00	
	Providing and fixing M.S. angle iron door frame including frame 50x50x6 mm including all labour and material etc. complete.							0.00	
	Providing and fixing steel shutters including cost of all labour and material etc. complete.		M2	3				0.00	
	Door		M2	2				0.00	
	Window		M2	5			3,900	18,252.00	
								0.00	
			Kg.	402			60	24,115.20	
	Supply of rubber matting							0.00	
UPJN_SOR_2014-15_1253	Supply of all materials and painting snow-cem paint inside and outside the sump.		M2	267			18	4,868.26	
	Inside & Outside 1x3.14x6.5x5							0.00	
	Enamel painting in door & windows including labour and material costs							0.00	
	Door		M2	5			135	606.74	
	Window		M2	3			135	436.85	
								0.00	
								0.00	
	Other Works							0.00	
	Construction of boundary Wall in Brick Masonary - (230 mm thick, 1 mtr in Length and 1.8 mtr in Height)		RM	80			5,792	463,366.47	
	M.S. Gate (3.6 Mtr Wide) with Wicket Gate (1.2 Mtr Wide)		no	1			71,348	71,347.98	
								0.00	
	Rising Main								
	Supply of DI K9 Pipe , 200 mm Dia.		RM	2,130			3,169	6,750,183.00	
	Spacials @ 10% of Cost of pipe		LS	10%			6,750,183	675,018.30	
								0.00	
	Excavation for pipe line in ordinary soil with lift upto 1.5 m and lead upto 50 m including refilling , watering and ramming of excavated earth in trenches after laying pipe line, removal and disposal of surplus material upto a distance of 50 m.		cum	3,195			183.4	585,963.00	
	Laying Of pipe		RM	2,130			1,547.5	3,296,267.63	
								0.00	
	Total							13,936,634.00	
	Mechanical works								
	Inlet Screens								
	Mechanical Step type Screens SS304 1 m wide 1 m depth with bar clear bar spacing 20 mm		no.	1			289,192	289,191.90	

	Items	Specification	Unit	Qty	P.C. Portion (Yen)		L.C. Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	Supply and installation of one set of complete Manual cleaned coarse screen in the inlet chamber having the aperture size as 20mm. Screens shall be installed at an inclination of 700 (max) to the horizontal		no	1			148,304	148,303.54	
	Belt Conveyor -500 mm width		no.	1			172,158	172,158.02	
	Screen Collection bin Trolley		no	1			235,047	235,047.12	
								0.00	
	Pumping Plants and Its Accessories							0.00	
	Non-clog, single stage, bottom suction submersible pump of Capacity =105cum/hr and head 23m at Peak Flows		nos	3			1,494,090	4,482,268.57	
	Non-clog, single stage, bottom suction submersible pump of Capacity =45 cum/hr and head 19 m at non Peak Flows		nos	2			603,382	1,206,764.62	
	Supplying, erecting, testing & commissioning of Manually Operated Crane (single bridge girder carrying two wheels, complete with chain pulley block, load chain of welded construction of alloy steel as per IS 2429, hand chains for hoisting & traverse mechanism)		no	1			243,178	243,178.52	
	Providing, installation, testing and commissioning of glycerin filled Pressure gauge of following ranges with isolation valve and tap off pipe complete in all respect as per technical specification and as per direction of		no	6			1,022	6,132.69	
	Tools and Tackles (As Per enclosed list)							0.00	
	a Chain wrench		No	2			7,500	15,000.00	
	b Pipe wrench		No	3			1,100	3,300.00	
	c Screw wrench		No	3			700	2,100.00	
	d. Ring spanners		No	1			2,000	2,000.00	
	e Double ended spanners		Set	1			1,000	1,000.00	
	f. Insulation pliers		No.	1			250	250.00	
	g. Hammer with handle		No.	2			400	800.00	
	h. Hexa blade frame		No.	2			150	300.00	
	i. Measuring tape of different size		Set	1			500	500.00	
	j. Spirit level set comprising of		No.	1			1,000	1,000.00	
	- Filler gauge		No.	1				0.00	
	- Steel scale		No.	1				0.00	
	- Chisel (150, 200 mm)		No.	1				0.00	
	- File (Flat, half round, round and triangular)		Set	1,000				0.00	
	k. Maggor HT & LT		No.	1			15,000	15,000.00	
	l. Crimping Tools		No.	1			30,000	30,000.00	
	m. Multimeter		No.	1			3,000	3,000.00	
	n. Power Drill		No.	1			5,000	5,000.00	
	Installation of all the equipments etc.		job	1			150,000	150,000.00	
	Commissioning of pumping station		job	1			25,000	25,000.00	
	Testing of pumping plants		job	1			25,000	25,000.00	
	Painting of all equipment and drives etc.		job	1			35,000	35,000.00	
								0.00	
	Valves and Fittings							0.00	
	Sluice valve							0.00	
	Manually operated Sluice Valve(DI) with H/w, PN10 conforming IS 1538							0.00	
	150 mm dia.		No	1			43,393	43,393.24	
	100 mm dia		No	5			33,157	165,786.47	
	Non-Return valve							0.00	
	C.I.D/F Swing type Non-Return Valves as per IS:5312, (Part-1 & 2) Single/Multidoor type (with Lever & counterweight 400 mm & above) 700 mm & above Dual Plate Check Valves as per API-594, PN-1.0							0.00	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	150 mm dia		No	1			41,375	41,374.79	
	100 mm dia		No	5			30,600	153,000.51	
	D.F.C.I. Pipes and D.F. C.I. Specials		kg	30,173			60	1,810,380.00	
								0.00	
	Providing, installation, testing and commissioning of following Stain less steel AISI 304 Expansion bellows of 10 bar rating with tie rods as per technical specifications and layout drawings including jointing material like nuts, bolts, rubber gaskets etc. complete in all respect as per technical specification and as per direction of Engineer							0.00	
	300 mm dia		nos.	6			24,525	147,150.18	
	Nuts & bolts of SS and rubber insertion /packing etc @ 5% Of the weight of CI piping and fittings		kg	1,509			300	452,595.00	
								0.00	
	Total							9,910,974.97	
	Electrical work								
	DG Sets								
	D.G SET								
	82.5KVA, 3 phase, 4 wire, 415 volt, 50 Hz., 1500 rpm, TAC / Air cooled Diesel Engine driven generating set with canopy. AMF control panel, fuel tank, battery, AVM pads etc. complete in all respect		Set	1			808,500	808,500.00	
	CHANGE OVER PANEL							0.00	
	Wall mounted, metal clad, factory fabricated and wired dust & vermin proof of 160 amp. Capacity change		No	1			150,000	150,000.00	
	POWER WIRING							0.00	
	Supply of 3.5C- 185 sq. mm. XLPE insulated, aluminium conductor armoured LT Power Cable from alternator to distribution panel cum changeover in a single length for 1 no. D.G. Set		Mtrs	100			1,850	185,000.00	
	EARTHING							0.00	
	Provision for proper double earthing for neutral & body separately as per IER including required material & labour etc. complete in all respect		1 Job	1			60,000	60,000.00	
	INSTALLATION & TESTING							0.00	
	Installation, commissioning of DG Set & panel.		1 Job	1			150,000	150,000.00	
								0.00	
								0.00	
	Electro- Magnetic Flow meter							0.00	
	Direct on line Full Bore electro-magnetic Flow meter for sewage application. The flow meter shall be suitable for bi directional flow measurement. This shall be having protection category of the sensor shall be IP68 and protection category for the transmitter shall be IP- 65. Accuracy shall be of +/- 5% of measured value without being affected by variation in the line pressure. Equipment should be complete with converter, transmitting device and should be fully programmable with digital flow indicator & integrator etc. The sensor housing and junction box should be of SS 316		no.	1			313,600	313,600.00	
								0.00	
	Internal and External Lighting							0.00	
	Lighting & fan wiring in LT panel room, DG set room, Metering room, Switch gear panel room, Staff quarter etc including required material & labour		points	50			1,000	50,000.00	

Sl. No.	Items	Specification	Unit	Qty	PC Portion (Yen)		L.C Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	Supply & fixing of 1200 mm ceiling fan of reputed make		nos	2			3,000	6,000.00	
	Supply & fixing of 18" exhaust fan, 900 rpm at the rate of 20 Air changes per hour		nos	2			6,000	12,000.00	
	Supply & fixing of discharge lamp HPSV/Mercury Vapour fittings including supply & grouting of 9 mtr. Height steel tubular poles complete in all respect		nos	4			16,000	64,000.00	
	Supply & fixing of gate lights and sump well light		nos	4			5,000	20,000.00	
								0.00	
								0.00	
	Switchgear with Transformer							0.00	
	RCC Double pole structure complete with Isolator, Insulators, Lightning Arresters, H/G Fuses, Operating handle with pad locking, tensioning wire and other accessories as required to complete the work		no.	1			175,000	175,000.00	
	SITC of 100 KVA, 11/44 KV, 3 phase, 50 c/s, oil immersed, ONAN & power transformer, DYN 11, HV & LV winding incorporated with buchholz relay & marshal box having OTI & WTI protection complete with all respect		Set	1			308,000	308,000.00	
	Supply & laying of 120 sq. mm. 3 core XLPE cable ISI mark according specification complete in all respect		mtr	100			1,800	180,000.00	
	SITC of 200 amp, 45 KA 2 nos incoming 1 bus coupler & 7x63A + 4x32A outgoing SFU feeders		nos	1			500,000	500,000.00	
	SITC of Auto power factor correction panel		nos	2			70,000	140,000.00	
	Supply , laying & termination of 3.5C-185 sq. mm. aluminum armoured cable ISI mark according specification complete in all respect		mtr	240			1,500	360,000.00	
	SITC of Direct on line Starter with single phase protection feature in sheet steel enclosure for operation of Screen & Conveyor		nos	3			1,540	4,620.00	
	SITC of fully automatic Star-Delta starter with single phase protection feature in sheet steel enclosure for operation of submersible pumps		nos.	5			12,950	64,750.00	
	Supply , laying & termination of 3C-16 sq. mm. aluminum armoured cable ISI mark according specification complete in all respect		mtrs	300			225	67,500.00	
	Supply & burying of earthing pits around the sub-station etc. complete in all respect		Job	1			100,000	100,000.00	
	Supply & fixing of fire extinguisher of 10 kg. capacity ISI mark complete in all respect		Nos.	10			12,000	120,000.00	
	All installed electrical equipments, drawings, fees and complete in installation of sub-station shall be approved by Dy. Director of Electrical Safety		Job	1			110,000	110,000.00	
	Supply & laying of rubber matting ISI mark as per specification etc. complete in all respect		Nos	3			18,000	54,000.00	
	Supply & laying of chequered plate on the cable trench etc. complete in all respect		mtr.	10			8,000	80,000.00	
	Fencing work around the sub-station in all respect		mtr.	50			10,000	500,000.00	
	Total							4,582,970.00	

	Items	Specification	Unit	Qty	B.C Portion (Yen)		L.C Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
<Civil/Building work>									
	Interceptor sewer							0.00	
	DISMANTLING WORK							0.00	
	Dismantling manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per							0.00	
15.43.2 - DSR_2014	a) Bitumen Road		m2	7,889			159	1,254,745.45	
1266 - SOR_U.P. Jal Nigam Varanasi_2014-15	b) Cement Concrete Road		m3	1,092			1,014	1,106,971.32	
								0.00	
16.83 - DSR_2014	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-charge.		m2	1,821			48	87,932.57	
								0.00	
UP PWD_2013	Reinstatement of Existing Bitumen Road - Owned by Nagar Nigam		m2	7,889			3,634.00	28,668,626.00	
								0.00	
1323 - SOR_U.P. Jal Nigam Varanasi_2014-15	Providing all Materials, Labours T & P etc & construct 100mm thick (1:2:4) Cement Concrete Road for Reinstatement of patch & trench cuts in cement concrete Roads.		m3	1,092			2,041	2,229,001.32	
								0.00	
16.68 - DSR_2014	Providing and laying 60 mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as		m2	364			602	219,267.04	
								0.00	
16.84 - DSR_2014	Laying old cement concrete interlocking paver blocks of any design/shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (Old CC paver blocks shall be supplied by the		m2	1,456			196	285,025.31	
								0.00	
	EARTH WORK (SEWER)							0.00	
2.9-& 2.26.2_DSR_2014	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus							0.00	
2.9.1 & 2.26.2 DSR 2014	Ordinary Rock							0.00	
	a) 0.0 to 1.5 mtr B.G.L		m3	5,295			264	1,395,179.80	
	b) 1.5 to 3.0 mtr B.G.L		m3	7,471			346	2,588,362.60	
	c) 3.0 to 4.5 mtr B.G.L		m3	8,516			429	3,656,856.28	
	d) 4.5 to 6.0 mtr B.G.L		m3	5,762			512	2,952,365.64	
	e) 6.0 to 9.0 mtr B.G.L		m3	1,847			595	1,099,697.69	
								0.00	
								0.00	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	Excavation by manually or mechanically up to following depths below G.L. for laying sewer line, in ordinary soil (earth, sand, loam & clay) including cutting of joints pits ramming dressing, leveling by manually or mechanically, refilling of trenches in 15cm layer watering and ramming the same including removal of surplus earth or other dismantled material up to a distance of 50m from the centre of trenches. (Excavation for Manhole is included in manhole item and not to be paid							0.00	
3001 - SOR_U.P. Jal Nigam Varanasi 2014-15	a) 0.0 to 1.5 mtr B.G.L		m3	2,269			185	419,325.47	
3002 - SOR_U.P. Jal Nigam Varanasi 2014-15	b) 1.5 to 3.0 mtr B.G.L		m3	3,202			232	742,776.76	
3003 - SOR_U.P. Jal Nigam Varanasi 2014-15	c) 3.0 to 4.5 mtr B.G.L		m3	3,650			291	1,063,077.25	
3004 - SOR_U.P. Jal Nigam Varanasi 2014-15	d) 4.5 to 6.0 mtr B.G.L		m3	2,470			340	839,886.26	
3006 - SOR_U.P. Jal Nigam Varanasi 2014-15	e) 6.0 to 9.0 mtr B.G.L		m3	792			443	351,103.12	
								0.00	
RA Attached	Disposal of excavated excess earth away from the site including conveyance of material up to an average lead of 1 Km away from the site and corresponding required lift, loading, unloading etc complete as directed by the engineer-in-charge (The quantity is net quantity of capacity of tractor after deduction of By Mechanical Transport including loading , unloading and stacking (Lead upto 2 Km away from the		m3	798			247	196,855.83	
								0.00	
RA Attached	Disposal of Road Cutting Rubbish / Malba / similar unserviceable, dismantled or waste material by mechanical means , including loading ,transportation , unloading to approved municipal dumping ground or as approved by Engineer - in charge, within 5 km initial lead, for all leads including all lifts involved		m3	2,306			306	706,016.95	
								0.00	
Similar Project Exp	Carting of excavated earth to identified place and recarting the same where sufficient width of road is not available for stacking of excavated earth average lead 500		m3	1,238			158	195,638.76	
								0.00	
	TIMBERING WORK							0.00	
	Providing and fixing open timbering in trenches up to 3m deep, consisting of 40mm thick approved country wood plank for poling board, 125x75mm Indian Sal wood wallers and 100mm diameter Sal wood ballies for shuttering at 1.50m c/c including removal after laying of sewers (Measurement to be taken							0.00	
3041 - SOR_U.P. Jal Nigam Varanasi 2014-15	a) 1.5 to 3.0 mtr B.G.L		m2	12,833			389	4,986,517.84	
3042 - SOR_U.P. Jal Nigam Varanasi 2013-2014	b) 3.0 to 6.0 mtr B.G.L.		m2	0			469.61	0.00	
3043 - SOR_U.P. Jal Nigam Varanasi 2013-2014	a) 6.0 to 9.0 mtr B.G.L		m2	0			575.93	0.00	
								0.00	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	Providing and fixing close timbering in trenches for the following depths below G.L. consisting of 40mm thick approved country wood plank for poling board 125x75mm Indian Sal wood walers and 100mm diameter Sal wood bullies for shuttering at 1.50m c/c including removal after laying of sewers (Measurement to be taken of the							0.00	
3032 - SOR_U.P. Jal Nigam Varanasi 2013-2014	u) 1.5 to 3.0 mtr B.G.L.		m2	0			633.77	0.00	
3032 - SOR_U.P. Jal Nigam Varanasi 2014-15	3.0 to 4.5 mtr B.G.L.		m2	5,472			644	3,522,435.84	
3033-SOR_U.P. Jal Nigam Varanasi 2014-15	4.5 to 6.0 mtr B.G.L.		m2	3,058			817	2,499,700.94	
3034-SOR_U.P. Jal Nigam Varanasi 2014-15	6.0 to 9.0 mtr B.G.L.		m2	825			940	775,260.75	
	Extra for planking and strutting in open timbering if required to be left permanently in position (Face area of the timber permanently left to be							0.00	
3047 - SOR_U.P. Jal Nigam Varanasi 2014-15	a) 0.0 to 3.0 mtr B.G.L.		m2	257			886	227,370.63	
3048 - SOR_U.P. Jal Nigam Varanasi 2013-2014	b) 3.0 to 6.0 mtr B.G.L.		m2	1,372			1,090	1,495,854.56	
3049 - SOR_U.P. Jal Nigam Varanasi 2013-2014	a) 6.0 to 9.0 mtr B.G.L.		m2	0			1,314	0.00	
								0.00	
	Extra for planking and strutting in close timbering if required to be left permanently in position (Face area of the timber permanently left to be							0.00	
3038 - SOR_U.P. Jal Nigam Varanasi 2013-2014	a) 3.0 to 4.5 mtr B.G.L.		m2	109			1531.91	167,652.23	
3039 - SOR_U.P. Jal Nigam Varanasi 2013-2014	b) 4.5 to 6.0 mtr B.G.L.		m2	61			1,896	115,949.57	
3040-SOR_U.P. Jal Nigam Varanasi 2014-15	c) 6.0 to 9.0 mtr B.G.L.		m2	17			2,127	35,090.55	
								0.00	
	BEDDING WORK							0.00	
Rate Analysis Attached	Providing and laying PCC Bedding with 12-20mm gauge approved stone ballast, coarse sand and cement in M- 15 (1:2:4) all work up to plinth level, including supply of all materials labour T&P etc. required for proper completion of work and including shuttering and							0.00	
								0.00	
	a) 250 mm Dia Sewer Pipe							0.00	
	0.0 to 1.5 Mtr B.G.L.		Rm				532	0.00	
	0.0 to 1.5 Mtr B.G.L.		Rm				532	0.00	
	1.5 to 3.0 Mtr B.G.L.		Rm	180			638	114,840.00	
	3.0 to 4.5 Mtr B.G.L.		Rm	480			641	307,680.00	
	4.5 to 6.0 Mtr B.G.L.		Rm				683	0.00	
	6.0 to 9.0 Mtr B.G.L.		Rm				725	0.00	
								0.00	
								0.00	
	e) 600 mm Dia Sewer Pipe							0.00	
	0.0 to 1.5 Mtr B.G.L.		Rm				1,318	0.00	
	1.5 to 3.0 Mtr B.G.L.		Rm				1,352	0.00	
	3.0 to 4.5 Mtr B.G.L.		Rm				1,398	0.00	
	4.5 to 6.0 Mtr B.G.L.		Rm				1,455	0.00	
	6.0 to 9.0 Mtr B.G.L.		Rm	1,550			1,512	2,343,600.00	
								0.00	
	f) 700 mm Dia Sewer Pipe							0.00	
	0.0 to 1.5 Mtr B.G.L.		Rm				1,547	0.00	
	1.5 to 3.0 Mtr B.G.L.		Rm				1,587	0.00	
	3.0 to 4.5 Mtr B.G.L.		Rm				1,641	0.00	
	4.5 to 6.0 Mtr B.G.L.		Rm	480			1,739	834,720.00	
	6.0 to 9.0 Mtr B.G.L.		Rm				1,816	0.00	
								0.00	
								0.00	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	Providing and laying RCC Bedding with 12-20mm gauge approved stone ballast, coarse sand and cement in M- 15 (1:2:4) all work up to plinth level, including supply of all materials labour T&P etc. required for proper completion of work and including shuttering and							0.00	
								0.00	
	e) 350 mm Dia Sewer Pipe							0.00	
	0.0 to 1.5 Mtr B.G.L.		Rm				825	0.00	
	1.5 to 3.0 Mtr B.G.L.		Rm				846	0.00	
	3.0 to 4.5 Mtr B.G.L.		Rm				874	0.00	
	4.5 to 6.0 Mtr B.G.L.		Rm	250			908	227,026.13	
	6.0 to 9.0 Mtr B.G.L.		Rm				1,032	0.00	
								0.00	
								0.00	
	Providing and laying Granular bedding with carefully compacted graded hard crusher broken stone of 100% passing through 20mm sieve, 20-50% passing through 10mm sieve and 100% retained on 6mm sieve and Dimensions are as per Approved Drawing for Following Dia.							0.00	
								0.00	
	b) 200 mm Dia Sewer Pipe							0.00	
	0.0 to 1.5 Mtr B.G.L.		Rm				576	0.00	
	1.5 to 3.0 Mtr B.G.L.		Rm	40			573	22,915.56	
	3.0 to 4.5 Mtr B.G.L.		Rm				578	0.00	
	4.5 to 6.0 Mtr B.G.L.		Rm				585	0.00	
	6.0 to 9.0 Mtr B.G.L.		Rm				609	0.00	
								0.00	
								0.00	
	j) 700 mm Dia Sewer Pipe							0.00	
	0.0 to 1.5 Mtr B.G.L.		Rm				1,810	0.00	
	1.5 to 3.0 Mtr B.G.L.		Rm				1,801	0.00	
	3.0 to 4.5 Mtr B.G.L.		Rm	1,328			1,816	2,411,982.76	
	4.5 to 6.0 Mtr B.G.L.		Rm				1,836	0.00	
	6.0 to 9.0 Mtr B.G.L.		Rm				1,905	0.00	
								0.00	
								0.00	
	SUPPLY & LAYING OF R.C.C. PIPE							0.00	
Market Rate - Quotation Attached	Supply and carting to site RCC NP3 pipes (with s/s ends) as per IS: 458 - 2003 (Amended up to date) including all taxes (Central and Local) with Rubber gaskets (EPDM/SBR) as per IS: 5382-1985 or (Amended up to date), including cost of Rubber gaskets, labour required, transportation, loading, unloading & stacking etc.(excluding cost of laying, jointing, testing and							0.00	
a)	150 mm		Rm					0.00	
	a) 200 mm dia RCC pipe		Rm				589	0.00	
	a) 250 mm dia RCC pipe		Rm	700			703	492,002.56	
	c) 300 mm dia RCC pipe		Rm				985	0.00	
	b) 350 mm dia RCC pipe		Rm	250			1,343	335,850.10	
	e) 400 mm dia RCC pipe		Rm				1,617	0.00	
	f) 450 mm dia RCC pipe		Rm				1,749	0.00	
	g) 500 mm dia RCC pipe		Rm				2,145	0.00	
	c) 600 mm dia RCC pipe		Rm	1,550			2,711	4,202,268.30	
	d) 700 mm dia RCC pipe		Rm	1,808			3,305	5,975,819.54	
			Total	4,308				0.00	
								0.00	

Sl. No.	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	Carriage of RCC pipe 100 class and specials from store to the site of work, laying of the same pipe in to the trenches in various depth, true to alignment chocking the point laying sewer pipe with rubber ring and Jointing materials including excavation of the below invert level of pipe and testing of laid pipe line complete excluding the cost of excavation of earth and refilling of trenches from ground level to invert level surface							0.00	
								0.00	
	n) 250 mm dia RCC pipe							0.00	
3199 - SOR_U.P. Jal Nigam Varanasi 2014-15	0.0 to 1.5 Mtr B.G.L.		Rm				372	0.00	
	1.5 to 3.0 Mtr B.G.L.		Rm	580			396	229,441.90	
	3.0 to 4.5 Mtr B.G.L.		Rm	90			420	37,810.48	
	4.5 to 6.0 Mtr B.G.L.		Rm	30			440	13,461.93	
	6.0 to 9.0 Mtr B.G.L.		Rm				543	0.00	
								0.00	
								0.00	
								0.00	
	b) 350 mm dia RCC pipe							0.00	
3201- SOR_U.P. Jal Nigam Varanasi 2014-15	0.0 to 1.5 Mtr B.G.L.		0				517	0.00	
	1.5 to 3.0 Mtr B.G.L.		0				551	0.00	
	3.0 to 4.5 Mtr B.G.L.		0				585	0.00	
	4.5 to 6.0 Mtr B.G.L.		0				625	0.00	
	6.0 to 9.0 Mtr B.G.L.		0	250			756	188,979.26	
								0.00	
								0.00	
	f) 600 mm dia RCC pipe							0.00	
3205- SOR_U.P. Jal Nigam Varanasi 2014-15	0.0 to 1.5 Mtr B.G.L.		0				841	0.00	
	1.5 to 3.0 Mtr B.G.L.		0				895	0.00	
	3.0 to 4.5 Mtr B.G.L.		0				950	0.00	
	4.5 to 6.0 Mtr B.G.L.		0				1,015	0.00	
	6.0 to 9.0 Mtr B.G.L.		0	1,550			1,229	1,904,594.65	
								0.00	
	g) 700 mm dia RCC pipe							0.00	
3206 - SOR_U.P. Jal Nigam Varanasi 2014-15	0.0 to 1.5 Mtr B.G.L.		0				929	0.00	
	1.5 to 3.0 Mtr B.G.L.		0				989	0.00	
	3.0 to 4.5 Mtr B.G.L.		0	1,224			1,050	1,285,265.63	
	4.5 to 6.0 Mtr B.G.L.		0	584			1,122	654,999.39	
	6.0 to 9.0 Mtr B.G.L.							0.00	
								0.00	
	MANHOLES IN BRICK MASONARY							0.00	
	CIRCULAR BRICK MANHOLE							0.00	
	Construction of Brick Circular Manhole in first Class Brick of following Sizes in cement mortar 1:4, C.C. top slab with 1:1.5:3, Bed concrete 1:1.5:3, PCC 1:3:6, inside and outside plastering 12 mm thick with cement mortar 1:3 finished with floating coat of neat cement and making channels in Cement concrete with 1:1.5:3, finished with Floating coat of neat cement complete with including Plastic Encapsulated M.S. foot Rest staggered at 0.375 mtr interval, including excavation, reinforcement and Formwork, SFRC Heavy duty frame and cover as per standard							0.00	
								0.00	
	c) 250 mm dia Sewer Pipe							0.00	
	0.0 to 1.5 mtr ht with 900 mm Manhole Dia		No	1			13,367	13,367.25	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	1.5 to 3.0 mtr ht with 900 mm Manhole Dia		No	20			35,149	702,983.10	
	3.0 to 4.5 mtr ht with 900 mm Manhole Dia		No	3			64,357	193,069.61	
	4.5 to 6.0 mtr ht with 900 mm Manhole Dia		No	1			116,576	116,576.49	
	6.0 to 9.0 mtr ht with 900 mm Manhole Dia		No				154,455	0.00	
								0.00	
								0.00	
	e) 350 mm dia Sewer Pipe							0.00	
	0.0 to 1.5 mtr ht with 900 mm Manhole Dia		No				13,454	0.00	
	1.5 to 3.0 mtr ht with 900 mm Manhole Dia		No				35,156	0.00	
	3.0 to 4.5 mtr ht with 900 mm Manhole Dia		No				63,681	0.00	
	4.5 to 6.0 mtr ht with 900 mm Manhole Dia		No				115,867	0.00	
	6.0 to 9.0 mtr ht with 900 mm Manhole Dia		No	9			152,822	1,375,396.69	
								0.00	
								0.00	
	i) 600 mm dia Sewer Pipe							0.00	
	0.0 to 1.5 mtr ht with 900 mm Manhole Dia		No				16,331	0.00	
	1.5 to 3.0 mtr ht with 900 mm Manhole Dia		No				41,506	0.00	
	3.0 to 4.5 mtr ht with 900 mm Manhole Dia		No				73,486	0.00	
	4.5 to 6.0 mtr ht with 900 mm Manhole Dia		No				133,465	0.00	
	6.0 to 9.0 mtr ht with 900 mm Manhole Dia		No	52			175,981	9,150,989.55	
								0.00	
								0.00	
	j) 700 mm dia Sewer Pipe							0.00	
	0.0 to 1.5 mtr ht with 1200 mm Manhole Dia		No				16,276	0.00	
	1.5 to 3.0 mtr ht with 1200 mm Manhole Dia		No				41,197	0.00	
	3.0 to 4.5 mtr ht with 1200 mm Manhole Dia		No	10			72,471	724,708.19	
	4.5 to 6.0 mtr ht with 1200 mm Manhole Dia		No	53			132,468	7,020,798.99	
	6.0 to 9.0 mtr ht with 1200 mm Manhole Dia		No					0.00	
								0.00	
								0.00	
	BARRICADING							0.00	
16 81 - DSR_2014	Providing and erecting 2.00 metre high temporary barricading at site as per drawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals.		Rm	100			1,467	146,700.00	
								0.00	
Similar project exp	Supply of all material, labour and T&P. to provide the barricading		Rm	500			440	220,050.00	
								0.00	
	MISCELLANEOUS							0.00	
	Provision for shifting & reinstatement of utilities e.g. electric & telephone cable/ poles, water lines drains etc. during excavation &		Ls	1			100,000	100,000.00	
	Total							105,232,442.39	

Sl. No.	Items	Specification	Unit	Qty	FC Portion (Yen)		L.C Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
	INTERCEPTION STRUCTURE							0.00	
	Tambol Ganj Nala							0.00	
3001	Excavation for depth up to 1.5 m below G.L. for laying sewers, manholes, gully pits, chambers, sumps etc in ordinary soil (earth, sand, loam & clay) including cutting of joints pits, trimming, dressing, leveling, refilling of trenches in 20cm layers watering and ramming the same including removal of surplus earth or other dismantled material up to a distance of 50m from the centre of trenches		m3	59.30			184.79	10,958.05	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle		m3	37.80			91.10	3,443.58	
103	Provision for disposal of surplus earth during construction process beyond municipal corporation limits of suitable place		m3	21.50			216.00	4,644.00	
1011	Concrete with 40 mm gauge brick ballast, local sand and cement in proportion of (8:4:1) in foundations and floors including supply of all materials, labour, T&P etc required for proper completion of the work.		m3	4.73			3,766.64	17,816.21	
1025	R.C.C. work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1.5:3 in columns excluding supply of reinforcement and its bending but including its fixing and binding the same with 0.50 mm thick binding wire (to be supplied by the contractor) including necessary centering and shuttering, supply of all materials, labour, T&P etc required for proper completion of the work.		m3	20.60			12,715.80	261,881.90	
1151	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.		Qtl	20.60			7,096.00	146,142.12	
DSR 4.3.2.	Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses		sqm	64.19			360.80	23,159.75	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	45.00			91.10	4,099.50	
M.24	Earth		m3	45.00			190.00	8,550.00	
M.15	Cement/Bag (50 kg)		t	4.50			7,500.00	33,750.00	
2436	Carting & placing of C.I. Manhole heavy duty 500 - 560 mm (clear opening) size.		No	1.00			682.00	682.00	
Approx. Mkt. Rt.	Rungs		No	20.00			300.00	6,000.00	
DSR 10.26.3.	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying primer coat of approved steel primer. G.I Pipes		kg	12.60			108.60	1,368.36	
	Total							522,495.47	
	Dargah Sharif							0.00	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
3001	Excavation for depth up to 1.5 m below G.L. for laying sewers, manholes, gully pits, chambers, sumps etc. in ordinary soil (earth, sand, loam & clay) including cutting of Joints pits, trimming, dressing, leveling, refilling of trenches in 20cm layers watering and ramming the same including removal of surplus earth or other dismantled		m3	4.45			184.79	822.32	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	1.15			91.10	104.77	
103	Provision for disposal of surplus earth during construction process beyond municipal corporation limits of suitable place.		m3	3.30			216.00	712.80	
1011	Concrete with 40 mm gauge brick ballast, local sand and cement in proportion of (8:4:1) in foundations and floors including supply of all materials, labour, T&P etc. required for proper completion of the work.		m3	0.73			3,766.64	2,734.58	
1025	R.C.C. work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1.5:3 in columns excluding supply of reinforcement and its bending but including its fixing and binding the same with 0.50 mm thick binding wire (to be supplied by the contractor) including necessary centering and shuttering, supply of all materials, labour, T&P etc required for proper completion of the work		m3	4.17			12,715.80	52,961.31	
1151	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.		Qty	4.17			7,096.00	29,554.84	
DSR 4.3.2	Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.		sqm	18.49			360.80	6,671.19	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	9.00			91.10	819.90	
M.24	Earth		m3	9.00			190.00	1,710.00	
M.15	Cement/Bag (50 kg)		t	0.90			7,500.00	6,750.00	
2436	Carting & placing of C.I. Manhole heavy duty 500 - 560 mm (clear opening) size.		No	1.00			682.00	682.00	
Approx Mkt Rt	Rungs		No	7.00			300.00	2,100.00	
DSR 10.26.3	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. G.I. Pipes		kg	4.60			108.60	499.56	
	Total							106,123.27	
	Santoshi Mata Mandir							0.00	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
3001	Excavation for depth up to 1.5 m below G.L. for laying sewers, manholes, gully pits, chambers, sumps etc in ordinary soil (earth, sand, loam & clay) including cutting of joints pits, trimming, dressing, leveling, refilling of trenches in 20cm layers watering and ramming the same including removal of surplus earth or other dismantled material up to a distance of 50m from the centre of trenches		m3	15.80			184.79	2,919.68	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle		m3	9.20			91.10	838.12	
103	Provision for disposal of surplus earth during construction process beyond municipal corporation limits of suitable place.		m3	6.60			216.00	1,425.60	
1011	Concrete with 40 mm gauge brick ballast, local sand and cement in proportion of (8:4:1) in foundations and floors including supply of all materials, labour, T&P etc required for proper completion of the work		m3	1.45			3,766.64	5,469.16	
1025	R.C.C. work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1.5:3 in columns excluding supply of reinforcement and its bending but including its fixing and binding the same with 0.50 mm thick binding wire (to be supplied by the contractor) including necessary centering and shuttering, supply of all materials, labour, T&P etc required for proper completion of the work		m3	8.33			12,715.80	105,922.61	
1151	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.		Qtl	8.33			7,096.00	59,109.68	
DSR 4.3.2.	Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.		sqm	32.69			360.80	11,794.55	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	18.00			91.10	1,639.80	
M.24	Earth		m3	18.00			190.00	3,420.00	
M.15	Cement/Bag (50 kg)		t	1.80			7,500.00	13,500.00	
2436	Carting & placing of C.I Manhole heavy duty 500 - 560 mm (clear opening) size.		No	1.00			682.00	682.00	
Approx Mkt Rt	Rungs		No	13.00			300.00	3,900.00	
DSR 10.26.3.	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer G.I Pipes		kg	6.60			108.60	716.76	
	Total							211,337.96	
	post office drain south								

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
3001	Excavation for depth up to 1.5 m below G.L. for laying sewers, manholes, gully pits, chambers, sumps etc. in ordinary soil (earth, sand, loam & clay) including cutting of Joints pits, trimming, dressing, leveling, refilling of trenches in 20cm layers watering and ramming the same including removal of surplus earth or other dismantled material up to a distance of 50m from the centre of trenches		m3	20.98			184.79	3,876.89	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	17.28			91.10	1,574.21	
103	Provision for disposal of surplus earth during construction process beyond municipal corporation limits of suitable place.		m3	3.70			216.00	799.20	
1011	Concrete with 40 mm gauge brick ballast, local sand and cement in proportion of (8:4:1) in foundations and floors including supply of all materials, labour, T&P etc required for proper completion of the work.		m3	0.81			3,766.64	3,066.04	
1025	R.C.C. work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1.5:3 in columns excluding supply of reinforcement and its bending but including its fixing and binding the same with 0.50 mm thick binding wire (to be supplied by the contractor) including necessary centering and shuttering, supply of all materials, labour, T&P etc required for proper completion of the work		m3	7.31			12,715.80	92,888.92	
1151	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth		Qty	7.31			7,096.00	51,836.28	
DSR 4.3.2.	Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.		sqm	33.81			360.80	12,198.65	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	9.00			91.10	819.90	
M.24	Earth		m3	9.00			190.00	1,710.00	
M.15	Cement/Bag (50 kg)		t	0.90			7,500.00	6,750.00	
2436	Carting & placing of C.I. Manhole heavy duty 500 - 560 mm (clear opening) size.		No	1.00			682.00	682.00	
Approx. Mkt. Rt.	Rungs		No	16.00			300.00	4,800.00	
DSR 10.26.3.	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel		kg	4.60			108.60	499.56	
	Total							181,501.65	
	Post office drain North							0.00	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
3001	Excavation for depth up to 1.5 m below G.L. for laying sewers, manholes, gully pits, chambers, sumps etc. in ordinary soil (earth, sand, loam & clay) including cutting of joints pits, trimming, dressing, leveling, refilling of trenches in 20cm layers watering and ramming the same including removal of surplus earth or other dismantled material up to a distance of 50m from the centre of trenches		m3	22.20			184.79	4,102.68	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	19.92			91.10	1,814.88	
103	Provision for disposal of surplus earth during construction process beyond municipal corporation limits of suitable place		m3	2.28			216.00	492.48	
1011	Concrete with 40 mm gauge brick ballast, local sand and cement in proportion of (8:4:1) in foundations and floors including supply of all materials, labour, T&P etc. required for proper completion of the work		m3	0.50			3,766.64	1,889.35	
1025	R.C.C. work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1.5:3 in columns excluding supply of		m3	6.63			12,715.80	84,305.75	
1151	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.		Qtl	6.63			7,096.00	47,046.48	
DSR 4.3.2	Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.		sqm	33.44			360.80	12,065.15	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	5.40			91.10	491.94	
M.24	Earth		m3	5.40			190.00	1,026.00	
M.15	Cement/Bag (50 kg)		t	0.54			7,500.00	4,050.00	
2436	Carting & placing of C.I. Manhole heavy duty 500 - 560 mm (clear opening) size.		No	1.00			682.00	682.00	
Approx. Mkt. Rt.	Rungs		No	17.00			300.00	5,100.00	
DSR 10.26.3.	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer G.I. Pipes		kg	3.80			108.60	412.68	
	Total							163,479.39	
	Gangeshwar (Nishad Park Nala)								

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
3001	Excavation for depth up to 1.5 m below G.L. for laying sewers, manholes, gully pits, chambers, sumps etc. in ordinary soil (earth, sand, loam & clay) including cutting of Joints pits, trimming, dressing, leveling, refilling of trenches in 20cm layers watering and ramming the same including removal of surplus earth or other dismantled material up to a distance of 50m from the centre of trenches		m3	25.62			184.79	4,734.67	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	19.92			91.10	1,814.88	
103	Provision for disposal of surplus earth during construction process beyond municipal corporation limits of suitable place.		m3	5.70			216.00	1,231.20	
1011	Concrete with 40 mm gauge brick ballast, local sand and cement in proportion of (8:4:1) in foundations and floors including supply of all materials, labour, T&P etc. required for proper completion of the work.		m3	1.25			3,766.64	4,723.37	
1025	R.C.C. work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1.5:3 in columns excluding supply of reinforcement and its bending but including its fixing and binding the same with 0.50 mm thick binding wire (to be supplied by the contractor) including necessary centering and shuttering, supply of all materials, labour, T&P etc required for proper completion of		m3	8.93			12,715.80	113,488.52	
1151	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto align		Qtl	8.93			7,096.00	63,331.80	
DSR 4.3.2.	Centering and shuttering including strutting, propping etc. and removal		sqm	37.94			360.80	13,688.75	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	13.50			91.10	1,229.85	
M.24	Earth		m3	13.50			190.00	2,565.00	
M.15	Cement/Bag (50 kg)		t	1.35			7,500.00	10,125.00	
2436	Carting & placing of C.I. Manhole heavy duty 500 - 560 mm (clear opening) size.		No	1.00			682.00	682.00	
Approx Mkt. Rt.	Rungs		No	17.00			300.00	5,100.00	
DSR 10.26.3.	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. G.I. Pipes		kg	5.60			108.60	608.16	
	Total							223,323.20	
	Balughat								

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
3001	Excavation for depth up to 1.5 m below G.L. for laying sewers, manholes, gully pits, chambers, sumps etc. in ordinary soil (earth, sand, loam & clay) including cutting of joints pits, trimming, dressing, leveling, refilling of trenches in 20cm layers watering and ramming the same including removal of surplus earth or other dismantled material up to a distance of 50m from the centre of trenches		m ³	6.48			184.79	1,197.56	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle		m ³	1.53			91.10	139.44	
103	Provision for disposal of surplus earth during construction process beyond municipal corporation limits of suitable place		m ³	4.95			216.00	1,069.20	
1011	Concrete with 40 mm gauge brick ballast, local sand and cement in proportion of (8:4:1) in foundations and floors including supply of all materials, labour, T&P etc. required for proper completion of the work.		m ³	1.09			3,766.64	4,101.87	
1025	R.C.C. work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1:5.3 in columns excluding supply of reinforcement and its bending but including its fixing and binding the		m ³	5.51			12,715.80	70,083.13	
1151	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level		Qtl	5.51			7,096.00	39,109.60	
DSR 4.3.2.	Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.		sqm	21.91			360.80	7,905.13	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m ³	13.50			91.10	1,229.85	
M.24	Earth		m ³	13.50			190.00	2,565.00	
M.15	Cement/Bag (50 kg)		t	1.35			7,500.00	10,125.00	
2436	Carting & placing of C.I. Manhole heavy duty 500 - 560 mm (clear opening) size.		No	1.00			682.00	682.00	
Approx. Mkt. Rt.	Rungs		No	7.00			300.00	2,100.00	
DSR 10.26.3.	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. G.I. Pipes		kg	5.60			108.60	608.16	
	Total							140,915.94	
	Belbeer Ghat								

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
3001	Excavation for depth up to 1.5 m below G.L. for laying sewers, manholes, gully pits, chambers, sumps etc. in ordinary soil (earth, sand, loam & clay) including cutting of Joints pits, trimming, dressing, leveling, refilling of trenches in 20cm layers watering and ramming the same including removal of surplus earth or other dismantled material up to a distance of 50m from the centre of trenches		m3	8.14			184.79	1,503.55	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	2.53			91.10	230.17	
103	Provision for disposal of surplus earth during construction process beyond municipal corporation limits of suitable place.		m3	5.61			216.00	1,211.76	
1011	Concrete with 40 mm gauge brick ballast, local sand and cement in proportion of (8:4:1) in foundations and floors including supply of all materials, labour, T&P etc. required for proper completion of the work. R.C.C. work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1.5:3 in columns excluding supply of reinforcement and its bending but including its fixing and binding the same with 0.50 mm thick binding wire (to be supplied by the contractor) including necessary centering and shuttering supply of		m3	1.23			3,766.64	4,648.79	
1025	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth		m3	6.34			12,715.80	80,675.39	
1151	Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.		Qtl	6.34			7,096.00	45,020.57	
DSR 4.3.2.	Filling, dressing and ramming earth or sand or bajri or ballast or kankar		sqm	24.75			360.80	8,929.80	
1005	Earth		m3	15.30			91.10	1,393.83	
M.24	Cement/Bag (50 kg)		m3	15.30			190.00	2,907.00	
M.15	Carting & placing of C.I. Manhole heavy duty 500 - 560 mm (clear opening) size.		t	1.53			7,500.00	11,475.00	
2436	Rungs		No	1.00			682.00	682.00	
Approx. Mkt Rt	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. G.I. Pipes		No	9.00			300.00	2,700.00	
DSR 10.26.3.	Total		kg	6.00			108.60	651.60	
								162,029.46	
	Choura Mata mandir (Ramghat)								
3001	Excavation for depth up to 1.5 m below G.L. for laying sewers, manholes, gully pits, chambers, sumps etc. in ordinary soil (earth, sand, loam & clay) including cutting of Joints pits, trimming, dressing, leveling, refilling of trenches in 20cm layers watering and ramming the same including removal of surplus earth or other dismantled material up to a distance of 50m from the centre of trenches		m3	8.83			184.79	1,631.93	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle		m3	3.88			91.10	353.58	
103	Provision for disposal of surplus earth during construction process beyond municipal corporation limits of suitable place.		m3	4.95			216.00	1,069.20	
1011	Concrete with 40 mm gauge brick ballast, local sand and cement in proportion of (8:4:1) in foundations and floors including supply of all materials, labour, T&P etc required for proper completion of the work.		m3	1.09			3,766.64	4,101.87	
1025	R C C work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1.5:3 in columns excluding supply of reinforcement and its bending but including its fixing and binding the same with 0.50 mm thick binding wire (to be supplied by the contractor) including necessary centering and shuttering, supply of all materials, labour, T&P etc required for proper completion of the work		m3	6.25			12,715.80	79,441.96	
1151	Steel reinforcement for R C C work including straightening, cutting, bending, placing in position and binding all complete upto plinth		Qtl	6.25			7,096.00	44,332.26	
DSR 4.3.2.	Centering and shuttering including strutting, propping etc. and removal of form work for, Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.		sqm	25.59			360.80	9,232.87	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle		m3	13.50			91.10	1,229.85	
M.24	Earth		m3	13.50			190.00	2,565.00	
M.15	Cement/Bag (50 kg)		t	1.35			7,500.00	10,125.00	
2436	Carting & placing of C.I. Manhole heavy duty 500 - 560 mm (clear opening) size.		No	1.00			682.00	682.00	
Approx Mkt Rt	Rungs		No	10.00			300.00	3,000.00	
DSR 10.26.3.	Providing and fixing hand rail of approved size by welding etc to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. G.I. Pipes		kg	5.60			108.60	608.16	
	Total							158,373.68	
	Kasi Ram Awas Drain								
3001	Excavation for depth up to 1.5 m below G.L. for laying sewers, manholes, gully pits, chambers, sumps etc. in ordinary soil (earth, sand, loam & clay) including cutting of Joints pits, trimming, dressing, leveling, refilling of trenches in 20cm layers watering and ramming the same including removal of surplus earth or other dismantled material up to a distance of 50m from the centre of trenches		m3	3.46			184.79	638.48	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	0.49			91.10	44.20	
103	Provision for disposal of surplus earth during construction process beyond municipal corporation limits of suitable place.		m3	2.97			216.00	641.52	
1011	Concrete with 40 mm gauge brick ballast, local sand and cement in proportion of (8:4:1) in foundations and floors including supply of all materials, labour, T&P etc. required for proper completion of the work.		m3	0.65			3,766.64	2,461.12	
1025	R.C.C. work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1.5:3 in columns excluding supply of reinforcement and its bending but including its fixing and binding the same with 0.50 mm thick binding wire (to be supplied by the contractor) including necessary centering and shuttering, supply of all materials, labour, T&P etc. required for proper completion of		m3	3.47			12,715.80	44,155.62	
1151	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.		Qtl	3.47			7,096.00	24,640.86	
DSR 4.3.2	Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.		sqm	15.69			360.80	5,660.95	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	8.10			91.10	737.91	
M.24	Earth		m3	8.10			190.00	1,539.00	
M.15	Cement/Bag (50 kg)		t	0.81			7,500.00	6,075.00	
2436	Carting & placing of C.I. Manhole heavy duty 500 - 560 mm (clear opening) size.		No	1.00			682.00	682.00	
Approx. Mkt. Rt.	Rungs		No	5.00			300.00	1,500.00	
DSR 10.26.3	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. G.I. Pipes		kg	4.40			108.60	477.84	
	Total							89,254.50	
	Nagar palika								
3001	Excavation for depth up to 1.5 m below G.L. for laying sewers, manholes, gully pits, chambers, sumps etc. in ordinary soil (earth, sand, loam & clay) including cutting of Joints pits, trimming, dressing, leveling, refilling of trenches in 20cm layers watering and ramming the same including removal of surplus earth or other dismantled material up to a distance of 50m from the centre of trenches		m3	7.18			184.79	1,327.02	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	3.88			91.10	353.58	

	Items	Specification	Unit	Qty	FC Portion (Yen)		L.C Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
103	Provision for disposal of surplus earth during construction process beyond municipal corporation limits of suitable place		m3	3.30			216.00	712.80	
1011	Concrete with 40 mm gauge brick ballast, local sand and cement in proportion of (8:4:1) in foundations and floors including supply of all materials, labour, T&P etc required for proper completion of the work		m3	0.73			3,766.64	2,734.58	
1025	RCC work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1.5:3 in columns excluding supply of reinforcement and its bending but including its fixing and binding the same with 0.50 mm thick binding wire (to be supplied by the contractor) including necessary centering and shuttering, supply of all materials, labour, T&P etc required for proper completion of the work		m3	5.09			12,715.80	64,659.84	
1151	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth		Qtl	5.09			7,096.00	36,083.16	
DSR 4.3.2.	Centering and shuttering including strutting, propping etc. and removal of form work for Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc		sqm	23.09			360.80	8,330.87	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	9.00			91.10	819.90	
M.24	Earth		m3	9.00			190.00	1,710.00	
M.15	Cement/Bag (50 kg)		t	0.90			7,500.00	6,750.00	
2436	Carting & placing of C.I. Manhole heavy duty 500 - 560 mm (clear opening) size.		No	1.00			682.00	682.00	
Approx. Mkt. Rt.	Rungs		No	10.00			300.00	3,000.00	
DSR 10.26.3.	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. G.I. Pipes		kg	4.60			108.60	499.56	
	Total							127,663.31	
	Parade ground								
3001	Excavation for depth up to 1.5 m below G.L. for laying sewers, manholes, gully pits, chambers, sumps etc. in ordinary soil (earth, sand, loam & clay) including cutting of Joints pits, trimming, dressing, leveling, refilling of trenches in 20cm layers watering and ramming the same including removal of surplus earth or other dismantled material up to a distance of 50m from the centre of trenches		m3	11.05			184.79	2,041.93	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar		m3	1.15			91.10	104.77	
103	Provision for disposal of surplus earth during construction process beyond municipal corporation limits of suitable place.		m3	9.90			216.00	2,138.40	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
1011	Concrete with 40 mm gauge brick ballast, local sand and cement in proportion of (8:4:1) in foundations and floors including supply of all materials, labour, T&P etc. required for proper completion of the work.		m3	2.18			3,766.64	8,203.74	
1025	R.C.C. work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1.5:3 in columns excluding supply of reinforcement and its bending but including its fixing and binding the same with 0.50 mm thick binding wire (to be supplied by the contractor) including necessary centering and shuttering, supply of all materials, labour, T&P etc required for proper completion of the work.		m3	8.82			12,715.80	112,089.78	
1151	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth		Qtl	8.82			7,096.00	62,551.24	
DSR 4.3.2.	Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses		sqm	28.49			360.80	10,279.19	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar		m3	27.00			91.10	2,459.70	
M.24	Earth		m3	27.00			190.00	5,130.00	
M.15	Cement/Bag (50 kg)		t	2.70			7,500.00	20,250.00	
2436	Carting & placing of C.I. Manhole heavy duty 500 - 560 mm (clear opening) size.		No	1.00			682.00	682.00	
Approx Mkt. Rt.	Rungs		No	7.00			300.00	2,100.00	
DSR 10.26.3	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. G.I. Pipes		kg	8.60			108.60	933.96	
	Total							228,964.71	
	Bhairam Ganj East								
3001	Excavation for depth up to 1.5 m below G.L. for laying sewers, manholes, gully pits, chambers, sumps etc. in ordinary soil (earth, sand, loam & clay) including cutting of Joints pits, trimming, dressing, leveling, refilling of trenches in 20cm layers watering and ramming the same including removal of surplus earth or other dismantled material up to a distance of 50m from the centre of trenches		m3	2.23			184.79	411.79	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	0.25			91.10	22.63	
103	Provision for disposal of surplus earth during construction process beyond municipal corporation limits of suitable place.		m3	1.98			216.00	427.68	
1011	Concrete with 40 mm gauge brick ballast, local sand and cement in proportion of (8:4:1) in foundations and floors including supply of all materials, labour, T&P etc. required for proper completion of the work.		m3	0.44			3,766.64	1,640.75	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
1025	R.C.C work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1.5:3 in columns excluding supply of reinforcement and its bending but including its fixing and binding the same with 0.50 mm thick binding wire (to be supplied by the contractor) including necessary centering and shuttering, supply of all materials, labour, T&P etc required for proper completion of the work.		m3	2.50			12,715.80	31,726.78	
1151	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth		Qtl	2.50			7,096.00	17,732.90	
DSR 4.3.2	Centering and shuttering including strutting, propping etc and removal of form work for Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc		sqm	12.81			360.80	4,621.85	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	5.40			91.10	491.94	
M.24	Earth		m3	5.40			190.00	1,026.00	
M.15	Cement Bag (50 kg)		t	0.54			7,500.00	4,050.00	
2436	Cutting & placing of C.I Manhole heavy duty 500 - 560 mm (clear opening) size.		No	1.00			682.00	682.00	
Approx Mkt Rt	Rungs		No	4.00			300.00	1,200.00	
DSR 10.26.3	Providing and fixing hand rail of approved size by welding etc to steel ladder railing, balcony railing, staircase railing and similar works including applying priming coat of approved steel primer. G.I. Pipes		kg	3.80			108.60	412.68	
	Total							64,497.00	
	Bhairam Ganj west								
3001	Excavation for depth up to 1.5 m below G.L. for laying sewers, manholes, gully pits, chambers, sumps etc. in ordinary soil (earth, sand, loam & clay) including cutting of Joints pits, trimming, dressing, leveling, refilling of trenches in 20cm layers watering and ramming the same including removal of surplus earth or other dismantled material up to a distance of 50m from the centre of trenches		m3	2.23			184.79	411.79	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	0.25			91.10	22.63	
103	Provision for disposal of surplus earth during construction process beyond municipal corporation limits of suitable place.		m3	1.98			216.00	427.68	
1011	Concrete with 40 mm gauge brick ballast, local sand and cement in proportion of (8:4:1) in foundations and floors including supply of all materials, labour, T&P etc. required for proper completion of the work.		m3	0.44			3,766.64	1,640.75	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
1025	R.C.C. work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1.5:3 in columns excluding supply of reinforcement and its bending but including its fixing and binding the same with 0.50 mm thick binding wire (to be supplied by the contractor) including necessary centering and shuttering, supply of all materials, labour, T&P etc required for proper completion of the work		m3	2.50			12,715.80	31,776.78	
1151	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.		Qtl	2.50			7,096.00	17,732.90	
DSR 4 3 2.	Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.		sqm	12.81			360.80	4,621.85	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	5.40			91.10	491.94	
M 24	Earth		m3	5.40			190.00	1,026.00	
M 15	Cement/Bag (50 kg)		t	0.54			7,500.00	4,050.00	
2436	Carting & placing of C.I. Manhole heavy duty 500 - 560 mm (clear opening) size.		No	1.00			682.00	682.00	
Approx. Mkt. Rt	Rungs		No	4.00			300.00	1,200.00	
DSR 10 26 3.	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel		kg	3.80			108.60	412.68	
	Total							64,497.00	
	Tekaur Basti North								
3001	Excavation for depth up to 1.5 m below G.L. for laying sewers, manholes, gully pits, chambers, sumps etc. in ordinary soil (earth, sand, loam & clay) including cutting of Joints pits, trimming, dressing, leveling, refilling of trenches in 20cm layers watering and ramming the same including removal of surplus earth or other dismantled material up to a distance of 50m from the centre of trenches		m3	3.81			184.79	703.74	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	0.84			91.10	76.37	
103	Provision for disposal of surplus earth during construction process beyond municipal corporation limits of suitable place.		m3	2.97			216.00	641.52	
1011	Concrete with 40 mm gauge brick ballast, local sand and cement in proportion of (8:4:1) in foundations and floors including supply of all materials, labour, T&P etc. required for proper completion of the work.		m3	0.65			3,766.64	2,461.12	

	Items	Specification	Unit	Qty	FC Portion (Yen)		L.C Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
1025	R.C.C. work with cement, coarse sand and 20 mm gauge approved stone ballast in proportion of 1:1.5:3 in columns excluding supply of reinforcement and its bending but including its fixing and binding the same with 0.50 mm thick binding wire (to be supplied by the contractor) including necessary centering and shuttering, supply of all materials, labour, T&P etc required for proper completion of the work.		m3	3.75			12,715.80	47,665.18	
1151	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.		Qt	3.75			7,096.00	26,599.36	
DSR 4.3.2.	Centering and shuttering including strutting, propping etc. and removal of form work for Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.		sqm	17.07			360.80	6,158.86	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	8.10			91.10	737.91	
M.24	Earth		m3	8.10			190.00	1,539.00	
M.15	Cement Bag (50 kg)		t	0.81			7,500.00	6,075.00	
2436	Cutting & placing of C.I. Manhole heavy duty 500 - 560 mm (clear opening) size.		No	1.00			682.00	682.00	
Approx Mkt Rt.	Rungs		No	6.00			300.00	1,800.00	
DSR 10.26.3.	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works including applying priming coat of approved steel primer. G.I. Pipes		kg	4.40			108.60	477.84	
	Total							95,617.90	
	Tekaur Basti South								
3001	Excavation for depth up to 1.5 m below G.L. for laying sewers, manholes, gully pits, chambers, sumps etc. in ordinary soil (earth, sand, loam & clay) including cutting of Joints pits, trimming, dressing, leveling, refilling of trenches in 20cm layers watering and ramming the same including removal of		m3	4.45			184.79	822.32	
1005	Filling, dressing and ramming earth or sand or bajri or ballast or kankar or shingle.		m3	1.15			91.10	104.77	
103	Provision for disposal of surplus earth during construction process beyond municipal corporation limits of suitable place.		m3	3.30			216.00	712.80	
1011	Concrete with 40 mm gauge brick ballast, local sand and cement in proportion of (8:4:1) in foundations and floors including supply of all materials, labour, T&P etc. required for proper completion of the work.		m3	0.73			3,766.64	2,734.58	

	Items	Specification	Unit	Qty	FC Portion (Yen)		LC Portion (INR)		Reference
					Unit Price	Amount	Unit Price	Amount	
<Civil/Building work>									
	Septic Tank							0.00	
UPJN_SOR_2014-15_3001	Earth work in excavation by manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 m ² 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.		m3	72.00			145	10,446.48	
								0.00	
UPJN_SOR_2014-15_1017	C.C. 20 MM STONE BALLAST, COARSE SAND AND CEMENT 4.2.1.							0.00	
	a) Raft		m3	9.00				0.00	
	b) Top Slab		m3	9.00				0.00	
	Deduction: Manhole cover		m3	0.16				0.00	
				17.84				0.00	
	Precast (M20)							0.00	
	(i) Concrete bracket - 120mm th.		m3	0.09				0.00	
	(ii) Perforated slab - 120mm th.		m3	0.04				0.00	
	(iii) Baffle wall - 75mm th.		m3	0.14				0.00	
				0.27				0.00	
				18.11			7363.92	133,328.19	
								0.00	
DSR_2013_4.3.2	Centering and shuttering including strutting, propping etc. and removal of form work for Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc							0.00	
	(i) Raft		m2	60.00				0.00	
	(ii) Top slab		m2	60.00				0.00	
	(iii) Concrete bracket - 120mm th.		m2	0.36				0.00	
	(iv) Perforated slab - 120mm th.		m2	0.36				0.00	
	(v) Baffle wall - 75mm th.		m2	0.92				0.00	
				121.64			367	44,690.54	
								0.00	
UPJN_SOR_2014-15_1018	R.C.C. WITH CEMENT, COARSE SAND AND 20 MM STONE BALLAST 1:1.5:3 with 4% steel			0.72			10633.88	7,701.31	
								0.00	
UPJN_SOR_2014-15_1029	1ST CLASS BRICK-WORK IN 1:6 CEMENT & LOCAL-SAND MORTAR							0.00	
	Main Wall 460 mm thick			16.56				0.00	
	Side Wall 460 mm thick			8.83				0.00	
	Partition wall 230mm thick			2.21				0.00	
				27.60			5,204	143,621.02	
								0.00	
UPJN_SOR_2014-15_1186	12MM THICK PLASTER WITH CEMENT & LOCAL SAND (1:3) MORTAR.							0.00	
	Internal & External		m2	72.00				0.00	
			m2	28.80				0.00	
	Bottom raft		m2	60.00				0.00	
				160.80			147.03	23,642.42	
								0.00	
Quotation from Vendor	C.I Manhole Cover with frame (600 x 600)		No	3.00			1,998.52	5,995.57	
	C. I. Rungs		No.	15.00			258	3,862.50	
	C.I. Valve with Spindle		No.	1.00			371	370.80	
	C. I. vent pipe 100mm dia with cap		Rmt	3.00			710	2,129.01	
	P. V. C. pipe - 100mm dia		Rmt	6.50			484	3,146.65	
	C. I. Grating with galvanised paint		No.	2.40			5,886	14,127.48	

10. Cost Breakdown for Package

Precondition

Common terms for Appraisal

Name of Local Currency

			INR	
(1)	Yen/\$	US\$ 1 =	105.5	Yen
(2)	LC/\$	US\$ 1 =	67.3	INR
(3)	Yen/INR	INR 1 =	1.57	Yen

Price Escalation

(1)	FC	1.6%	LC	3.7%
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Physical Contingency

Construction	5.0%	Consultant	5.0%
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Base Year for Cost Estimation:

2016/7

Schedule

Start 2016/4

End 2024/3

Billing Rate of Consultant

	FC Yen	LC INR
Pro-(A)	3,073,000	0
Pro-(B)	0	390,000
Supporting Staff	0	100,000

Others

Rate of Tax

VAT	10.0%	Import Tax	15.0%
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Rate of Administration Cost

5.0%

Rate of Interest During Construction

Construction	0.30%	Consultant	0.01%
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Rate of Commitment Charges

0.2%

Payment Method for Interest during construction and Commitment charge not loan covered

Fiscal Year

Apr - Mar

Cost Breakdown for Package

US \$ =yen 105.5
 INR =yen 1.57

item	Local	Total
	INR	yen
Land Acquisition Cost	28,262,000	44,371,340

Construction of Sewer Network (Varanasi District 1) 借款对象率 100

item	unit	Quantity	Unit Price		Cost		Total
			Foreign	Local	Foreign	Local	
			yen	INR	yen	INR	
Construction of Sewer Network (Varanasi District	LS	1		2,748,795,976		2,748,795,976	4,315,609,682
Cost of sewer cleaning equipments, Flushing Van	LS	1		4,050,000		4,050,000	6,358,500
							0
Total					0	2,752,845,976	4,321,968,182

Construction of Sewer Network (Varanasi District 2) 借款对象率 100

item	unit	Quantity	Unit Price		Cost		Total
			Foreign	Local	Foreign	Local	
			yen	INR	yen	INR	
Construction of Sewer Network (Varanasi District	LS	1		4,162,148,430		4,162,148,430	6,534,573,035
Cost of sewer cleaning equipments, Flushing Van	LS	1		4,050,000		4,050,000	6,358,500
							0
Total					0	4,166,198,430	6,540,931,535

Construction of Sewer Network (Varanasi District 3) 借款对象率 100

item	unit	Quantity	Unit Price		Cost		Total
			Foreign	Local	Foreign	Local	
			yen	INR	yen	INR	
Construction of Sewer Network (Varanasi District	LS	1		1,938,347,738		1,938,347,738	3,043,205,949
Construction of 3.92 MLD pump station	LS	1				0	0
Cost of sewer cleaning equipments, Flushing Van	LS	1		4,050,000		4,050,000	6,358,500
							0
Total					0	1,942,397,738	3,049,564,449

Rehabilitation of Dinapur and Bhaguanpur STP 借款对象率 100

item	unit	Quantity	Unit Price		Cost		Total
			Foreign	Local	Foreign	Local	
			yen	INR	yen	INR	
Rehabilitation of Dinapur STP (Civil work)	LS	1		96,019,852		96,019,852	150,751,167
Rehabilitation of Dinapur STP (Mechanical work)	LS	1		300,757,200		300,757,200	472,188,804
Rehabilitation of Dinapur STP (Electrical work)	LS	1		71,948,500		71,948,500	112,959,145
Rehabilitation of Bhaguanpur STP (Civil	LS	1		12,012,407		12,012,407	18,859,479
Rehabilitation of Bhaguanpur STP	LS	1		47,757,420		47,757,420	74,979,149
Rehabilitation of Bhaguanpur STP (Electrical	LS	1		26,367,100		26,367,100	41,396,347
10 years of O&M cost	LS	1				0	0
							0
Total					0	554,862,479	871,134,091

Construction of Ramnar STP 借款对象率 100

item	unit	Quantity	Unit Price		Cost		Total	
			Foreign	Local	Foreign	Local		
			yen	INR	yen	INR		
Construction of Ramnar STP (Civil work)	LS	1		730,989,869		730,989,869	1,147,654,095	
Construction of Ramnar STP (Mechanical work)	LS	1		208,657,320		208,657,320	327,591,992	
Construction of Ramnar STP (Electrical work)	LS	1		20,030,142		20,030,142	31,447,323	
10 years of O&M cost	LS	1				0	0	
Cost of sewer cleaning equipments, Flushing Van	LS	1		1,000,000		1,000,000	1,570,000	
Total						0	960,677,331	1,508,263,410

Constrction of STP and Sewer network in Ramnagar 借款对象率 100

item	unit	Quantity	Unit Price		Cost		Total	
			Foreign	Local	Foreign	Local		
			yen	INR	yen	INR		
Construction of Ramnagar STP (Civil work)	LS	1		126,064,192		126,064,192	197,920,781	
Construction of Ramnagar STP (Mechanical work)	LS	1		60,105,440		60,105,440	94,365,541	
Construction of Ramnagar STP (Electrical work)	LS	1		29,895,440		29,895,440	46,935,841	
Construction of 3 Pump stations in Ramnagar	LS	1		69,354,031		69,354,031	108,885,828	
Construction of sewer network	LS	1		6,294,904		6,294,904	9,882,999	
Cost of sewer cleaning equipments, Flushing Van	LS	1		800,000		800,000	1,256,000	
10 years of O&M cost	LS	1				0	0	
Total						0	292,514,007	459,246,990

River purification 借款对象率 100

item	unit	Quantity	Unit Price		Cost		Total	
			Foreign	Local	Foreign	Local		
			yen	INR	yen	INR		
Installation of River purification device etc	LS	1		100,000,000		100,000,000	157,000,000	
Total						0	100,000,000	157,000,000

CTC construction in Varanasi 借款对象率 100

item	unit	Quantity	Unit Price		Cost		Total	
			Foreign	Local	Foreign	Local		
			yen	INR	yen	INR		
Construction of CTC	LS	1		134,932,000		134,932,000	211,843,240	
Total						0	134,932,000	211,843,240

Supporting activities 借款对象率 100

item	unit	Quantity	Unit Price		Cost		Total	
			Foreign	Local	Foreign	Local		
			yen	INR	yen	INR		
Communication & Public Outreach in Varanasi D1-3	LS	1		10,500,000		10,500,000	16,485,000	
Communication & Public Outreach in Ramnar	LS	1		1,000,000		1,000,000	1,570,000	
Communication & Public Outreach in Ramnagar	LS	1		1,000,000		1,000,000	1,570,000	
Environmental and Management Plan (EMP) in	LS	1		3,000,000		3,000,000	4,710,000	
Environmental and Management Plan (EMP) in	LS	1		1,000,000		1,000,000	1,570,000	
Environmental and Management Plan (EMP) in	LS	1		1,500,000		1,500,000	2,355,000	
Total						0	18,000,000	28,260,000

Institutional development 借款对象率 100

item	unit	Quantity	Unit Price		Cost		Total
			Foreign	Local	Foreign	Local	

item	unit	Quantity	Unit Price		Cost		Total yen
			Foreign yen	Local INR	Foreign yen	Local INR	
Governance and Accountability Action Plan	LS	1		6,000,000		6,000,000	9,420,000
Governance and Accountability Action Plan	LS	1		1,000,000		1,000,000	1,570,000
Governance and Accountability Action Plan	LS	1		1,000,000		1,000,000	1,570,000
Total					0	8,000,000	12,560,000

MIS

借款对象率

item	unit	Quantity	Unit Price		Cost		Total yen
			Foreign	Local	Foreign	Local	
			yen	INR	yen	INR	
Management Information System	LS	1		149,570,000		149,570,000	234,824,900
							0
							0
							0
							0
Total					0	149,570,000	234,824,900

Power Connection & Allied Work-Ramnagar

借款对象率

item	unit	Quantity	Unit Price		Cost		Total yen
			Foreign	Local	Foreign	Local	
			yen	INR	yen	INR	
Power Connection & Allied Works - Ramnagar STP	LS	1		67,380,000		67,380,000	105,786,600
Total					0	67,380,000	105,786,600

Power Connection & Allied Works-Ramnagar

借款对象率

item	unit	Quantity	Unit Price		Cost		Total yen
			Foreign	Local	Foreign	Local	
			yen	INR	yen	INR	
Power Connection & Allied Works - Ramnagar STP	LS	1		38,127,000		38,127,000	59,859,390
Total					0	38,127,000	59,859,390

Implementation Schedule

	2016				2017				2018				2019				2020				2021				2022				2023				Month																
	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11		12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
Appraisal																																																	0
Pledge																																																	1
Signing of Loan Agreement																																																	1
																																																	0
Consulting Services																																																	0
Selection of Consultant																																																	12
Package 1																																																	0
1. Construction of Sewer Network (Varanasi District 1)																																																	0
(1) Detailed Design																																																	0
1) Survey for Sewer Network																																																	0
- Toposurvey																																																	4
- Reporting																																																	1
2) Detailed Design																																																	6
3) Cost Estimation																																																	2
4) Bid document for the Package																																																	4
(2) Bidding for package																																																	0
1) PQ(up to evaluation and contract)																																																	3
2) Bid(tender call to contract)																																																	12
(3) Construction supervision																																																	30
(4) Defect Notification Period																																																	12
(5) Final Contract Administration																																																	3
																																																	0
Package 2																																																	0
2. Construction of Sewer Network (Varanasi District 2)																																																	0
(1) Detailed Design																																																	0
1) Survey for Sewer Network																																																	0
- Toposurvey																																																	4
- Reporting																																																	1
2) Detailed Design																																																	6
3) Cost Estimation																																																	2
4) Bid document for the Package																																																	4
(2) Bidding for package																																																	0
1) PQ(up to evaluation and contract)																																																	3
2) Bid(tender call to contract)																																																	12
(3) Construction supervision																																																	30
(4) Defect Notification Period																																																	12
(5) Final Contract Administration																																																	3
																																																	0
Package 3																																																	0
3. Construction of Sewer Network (Varanasi District 3)																																																	0
(1) Detailed Design																																																	0
1) Survey for Sewer Network																																																	0
- Toposurvey																																																	4
- Reporting																																																	1
2) Detailed Design																																																	6
3) Cost Estimation																																																	2

Implementation Schedule

	2016	2017	2018	2019	2020	2021	2022	2023	Month
(2) Bidding for package									0
1) PQ(up to evaluation and contract)			6						3
2) Bid(tender call to contract)				12					12
(3) Construction supervision					30				30
(4) Defect Notification Period							12		12
(5) Final Contract Administration								3	3
									0
Package 7									0
7. River Purification									0
(1) Preparation of TOR				3					3
(2) Selection of the Contractor				6					6
(3) Implementation					36				36
									0
Package 8									0
8. CTC construction in Varanasi									0
(1) Detailed Design									0
1) Survey for CTC site									0
- Toposurvey				4					4
- Reporting				1					1
2) Detailed Design				4					4
3) Cost Estimation				2					2
4) Bid document for the Package				2					2
(2) Bidding for package					24				24
(3) Construction supervision									0
									0
Package 9									0
9. Supporting activities									0
(1) Preparation of TOR				3					3
(2) Selection of the Contractor				6					6
(3) Implementation					30				30
									0
Package 10									0
10. Institutional development									0
(1) Preparation of TOR				3					3
(2) Selection of the Contractor				6					6
(3) Implementation					30				30
									0
Package 11									0
MIS									0
(1) Preparation of TOR				3					3
(2) Selection of the Contractor				6					6
(3) Implementation					36				36
									0
									0
Land Acquisition	0	0	6	0	0	0	0	0	6
Construction of Sewer Network (Varanasi District 1)	0	0	0	0	12	12	6	0	30
Construction of Sewer Network (Varanasi District 2)	0	0	0	0	12	12	6	0	30
Construction of Sewer Network (Varanasi District 3)	0	0	0	0	12	12	6	0	30

Implementation Schedule

	2016			2017			2018			2019			2020			2021			2022			2023			Month
	Jan	Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar	
Rehabilitation of Dinapur and Bhaguanpur STP	0			0			0			0			12			12			0			0			24
Construction of Ramnar STP	0			0			0			0			12			12			6			0			30
Construction of STP and Sewer network in Ramnagar	0			0			0			0			12			12			6			0			30
River purification	0			0			0			0			12			12			0			0			24
CTC construction in Varanasi	0			0			0			0			12			12			0			0			24
Supporting activities	0			0			0			0			12			12			6			0			30
Institutional development	0			0			0			0			12			12			6			0			30
MIS	0			0			0			0			0			0			0			0			0
Power Connection & Allied Work-Ramnagar	0			0			0			0			0			0			6			0			6
Power Connection & Allied Works-Ramnar	0			0			0			0			0			0			6			0			6

Cost Breakdown for the Consulting Services

US \$ = yen 105.5
 INR = yen 1.57

	Unit	Qty.	Foreign Portion		Local Portion		Combined Total
			(Yen)		INR		
			Rate	Amount ('000)	Rate	Amount ('000)	('000) Yen
A Remuneration							
1 Professional (A)	M/M	184	3,073,000	565,432	0	0	565,432
2 Professional (B)	M/M	786	0	0	390,000	306,540	481,268
3 Supporting Staffs	M/M	729	0	0	100,000	72,900	114,453
Subtotal of A				565,432		379,440	1,161,153
							0
B Direct Cost							0
1 International Airfare	Trip	133	405,150	53,885	19,615	2,609	57,981
2 Domestic Airfare	Trip	258		0	19,615	5,061	7,945
Domestic Travel (train ticket)	Trip	128		0	6,650	851	1,336
3 Accommodation Allowance	Month	184		0	117,000	21,528	33,799
	Month	786		0	100,000	78,600	123,402
	Month	729		0	50,000	36,450	57,227
4 Vehicle Rental -sedan x 3	Month	171		0	32,000	5,472	8,591
Vehicle Rental - vanx3	Month	171		0	55,000	9,405	14,766
5 Office Rental	M/M	57		0	165,000	9,405	14,766
6 International Communications	M/M	57		0	55,000	3,135	4,922
7 Domestic Communications	M/M	57		0	20,000	1,140	1,790
8 Office Supply	M/M	57		0	25,000	1,425	2,237
9 Office Furniture and Equipment	LS	1		0	10,000,000	10,000	15,700
10 Report Preparation	Month	30		0	3,000,000	90,000	141,300
11 Survey, water quality and other v	Lumpsu	3		0	75,000	225	353
12				0		0	0
13				0		0	0
14				0		0	0
							0
							0
							0
							0
							0
							0
							0
Subtotal of B				53,885		275,306	486,115
Total				619,317		654,746	1,647,268

Annural Distribution of Cost

Item	Total			2016			2017			2018			2019			2020			2021			2022			2023				
	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total		
Construction of Sewer Network (Varanasi District 1)	100%	100%	0%	0%	0%		0%	0%		0%	0%		0%	0%		40%	40%		40%	40%		20%	20%		0%	0%			
Construction of Sewer Network (Varanasi District 2)	100%	100%	0%	0%	0%		0%	0%		0%	0%		0%	0%		40%	40%		40%	40%		20%	20%		0%	0%			
Construction of Sewer Network (Varanasi District 3)	100%	100%	0%	0%	0%		0%	0%		0%	0%		0%	0%		40%	40%		40%	40%		20%	20%		0%	0%			
Rehabilitation of Dinapur and Bhaguanpur STP	100%	100%	0%	0%	0%		0%	0%		0%	0%		0%	0%		50%	50%		50%	50%		0%	0%		0%	0%			
Construction of Ramnar STP	100%	100%	0%	0%	0%		0%	0%		0%	0%		0%	0%		40%	40%		40%	40%		20%	20%		0%	0%			
Construction of STP and Sewer network in Ramnagar	100%	100%	0%	0%	0%		0%	0%		0%	0%		0%	0%		40%	40%		40%	40%		20%	20%		0%	0%			
River purification	100%	100%	0%	0%	0%		0%	0%		0%	0%		0%	0%		50%	50%		50%	50%		0%	0%		0%	0%			
CTC construction in Varanasi	100%	100%	0%	0%	0%		0%	0%		0%	0%		0%	0%		50%	50%		50%	50%		0%	0%		0%	0%			
Supporting activities	100%	100%	0%	0%	0%		0%	0%		0%	0%		0%	0%		40%	40%		40%	40%		20%	20%		0%	0%			
Institutional development	100%	100%	0%	0%	0%		0%	0%		0%	0%		0%	0%		40%	40%		40%	40%		20%	20%		0%	0%			
MIS	0%	0%	0%	0%	0%		0%	0%		0%	0%		0%	0%		0%	0%		0%	0%		0%	0%		0%	0%			
Power Connection & Allied Work-Ramnagar	100%	100%	0%	0%	0%		0%	0%		0%	0%		0%	0%		0%	0%		0%	0%		100%	100%		0%	0%			
Power Connection & Allied Works-Ramnar	100%	100%	0%	0%	0%		0%	0%		0%	0%		0%	0%		0%	0%		0%	0%		100%	100%		0%	0%			
Land Acquisition						0%			0%			100%			0%			0%			0%							0%	
Consultant	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	39%	20%	27%	18%	17%	17%	16%	22%	20%	14%	21%	19%	10%	16%	14%	2%	4%	3%

Annual Fund Requirement

Base Year for Cost Estimation: Jul, 2016
 Exchange Rates: INR = Yen 1.57
 Price Escalation: FC: 1.6% LC: 3.7%
 Physical Contingency for Consultant: 5%
 FC & Total: million JPY
 LC: million INR

Item	Total			2016			2017			2018			2019			2020			2021			2022				
	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total		
A. ELIGIBLE PORTION																										
I) Procurement / Construction	0	13,656	21,443	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Construction of Sewer Network (Varanasi District 1)	0	2,753	4,322	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Construction of Sewer Network (Varanasi District 2)	0	4,166	6,541	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Construction of Sewer Network (Varanasi District 3)	0	1,942	3,050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rehabilitation of Dinapur and Bhaganpur STP	0	555	871	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Construction of Ramnar STP	0	961	1,508	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Construction of STP and Sewer network in Ramnagar	0	293	459	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
River purification	0	100	157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CTC construction in Varanasi	0	135	212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Supporting activities	0	18	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Institutional development	0	8	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Base cost for JICA financing	0	10,930	17,161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Price escalation	0	2,077	3,261	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical contingency	0	650	1,021	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
II) Consulting services	687	798	1,940	0	0	0	0	0	0	263	151	500	125	128	327	109	174	382	100	174	373	73	133	282		
Base cost	619	655	1,647	0	0	0	0	0	0	243	134	453	114	110	286	97	143	322	88	138	305	63	102	223		
Price escalation	36	106	201	0	0	0	0	0	0	8	10	24	6	11	25	6	22	42	7	28	51	6	25	45		
Physical contingency	33	38	92	0	0	0	0	0	0	13	7	24	6	5	16	5	8	18	5	8	18	3	6	13		
Total (I + II)	687	14,456	23,383	0	0	0	0	0	0	263	151	500	125	128	327	109	174	382	100	174	373	73	133	282		
B. NON ELIGIBLE PORTION																										
a) Procurement / Construction	0	138	216	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIS	0	150	235	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Power Connection & Allied Work-Ramnagar	0	67	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Power Connection & Allied Works-Ramnagar	0	38	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Base cost for JICA financing	0	106	166	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Price escalation	0	26	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical contingency	0	7	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
b) Land Acquisition	0	32	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Base cost	0	28	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Price escalation	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical contingency	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
c) Administration cost	0	753	1,182	0	0	0	0	0	0	0	18	28	0	10	16	0	382	443	0	292	359	0	168	210		
d) VAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
e) Import Tax	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total (a+b+c+d+e)	0	923	1,449	0	0	0	0	0	0	0	18	28	0	10	16	0	382	443	0	292	359	0	168	210		
TOTAL (A+B)	687	15,379	24,832	0	0	0	0	0	0	263	151	500	125	139	343	109	174	382	100	174	373	73	133	282		
C. Interest during Construction	207	0	207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest during Construction (Const.)	206	0	206	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest during Construction (Consul.)	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D. Commitment Charge	374	0	374	47	0	47	47	0	47	47	0	47	47	0	47	47	0	47	47	0	47	47	0	47	47	0
GRAND TOTAL (A+B+C+D)	1,268	15,379	25,413	47	0	47	47	0	47	310	200	525	172	139	390	181	5,881	9,383	198	6,871	9,730	194	3,057	5,000		

Breakdown of Cost	Foreign Currency Portion			Local Currency Portion			Total		
	Total	JICA Portion	Others	Total	JICA Portion	Others	Total	JICA Portion	Others
Construction of Sewer Network (Varanasi)	0	0	0	2,753	2,753	0	4,322	4,322	0
Construction of Sewer Network (Varanasi)	0	0	0	4,166	4,166	0	6,541	6,541	0
Construction of Sewer Network (Varanasi)	0	0	0	1,942	1,942	0	3,050	3,050	0
Rehabilitation of Dinapur and Bhaguar	0	0	0	555	555	0	871	871	0
Construction of Ramnar STP	0	0	0	961	961	0	1,508	1,508	0
Construction of STP and Sewer network	0	0	0	293	293	0	459	459	0
River purification	0	0	0	100	100	0	157	157	0
CTC construction in Varanasi	0	0	0	135	135	0	212	212	0
Supporting activities	0	0	0	18	18	0	28	28	0
Institutional development	0	0	0	8	8	0	13	13	0
MIS	0	0	0	150	0	150	235	0	235
Power Connection & Allied Work-Ram	0	0	0	67	0	67	106	0	106
Power Connection & Allied Works-Ra	0	0	0	38	0	38	60	0	60
Price Escalation	0	0	0	2,103	2,077	26	3,301	3,261	40
Physical Contingency	0	0	0	657	650	7	1,031	1,021	10
Consulting Services	687	687	0	798	798	0	1,940	1,940	0
Land Acquisition	0	0	0	32	0	32	50	0	50
Administration Cost	0	0	0	753	0	753	1,182	0	1,182
VAT	0	0	0	0	0	0	0	0	0
Import Tax	0	0	0	0	0	0	0	0	0
Interest during construction	207	0	207	0	0	0	207	0	207
Commitment Charge	374	0	374	0	0	0	374	0	374
Total	1,268	687	581	15,528	14,456	1,072	25,648	23,383	2,265

Breakdown of Cost	Total	JICA Portion	Others
2016	47	0	47
2017	47	0	47
2018	625	500	124
2019	390	327	63
2020	9,383	8,868	516
2021	9,730	9,173	557
2022	5,000	4,440	560
2023	190	75	115
Total	25,413	23,383	2,030

