

Abstract of Cost / Package-II/ CIVIL

Provision of 12m wide FOB (Foot Over Bridges) and other miscellaneous works at **Andal, Panagarh, Kumardubi** other stations identified for the development under Amrit Bharat Station scheme in the jurisdiction of Gati Shakti Unit - Asansol.

SI No	Item- 1		Description of Item	Unit	Qty	Rate	Amount
						(Rs)	(Rs)
			Schedule A-Non Schedule item of schedule A				
			Schedule A (NS Items)				
1	6	6	"Driving (either Manual or Mechanical hammers) Z- section of M.S.Sheet piles side by side with one side of one into the grove of the other in proper line and alignment vertically on the side of trenches as and where necessary as per approved drawing and as directed by the Site Engineer in all kinds of soil. The work consists supply of all materials such as Z-sections, bracing materials etc. including fitting, fixing, driving of sheet materials, horizontal bracing strut etc. if required. The same should be taken out after completion of work and will be the contractor's property. The rate include all labours, tools, plants, machineries, handling, rehandling,lead, lift, transporting, carrying, cutting, sizing and all other incidental charges complete in all respect. Measurements will be taken on the basis of area covered and depth of pile actually driven in the earth along the trenches. Railway will not supply any materials for this work. The work is to be done by the side of existing railway track with 25KV traction wire for which precaution to be taken by the contractor."	Sqm	781.72	4,284.64	33,49,380.59
2	7	7	Providing and fixing 18-20 mm thick machine cut granite stone slab of approved color for flooring laid on 20mm thick 1:3 cement sand mortar and jointed with epoxy pigments to match the colour of stones and as per the approved pattern using approved binding agent with all contractor's material, labour, tools and plants with all lead and lifts, transportation etc complete. Note: Pay ment for edge molding, groove cutting and treatment to granite stone such as flaming. leather polish, etc. to make it non slippery with all contractor's labour, tools, plant, consumable etc. complete with all lead and lift is done separately under relevant Item.	Sqm	3,126.87	3125.00	97,71,476.09

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SI No	Item- 1		Description of Item	Unit	Qty	Rate (Rs)	Amount (Rs)
3	8	8	Extra for giving treatment to granite stone such as flame buring /flaming, lather polish etc. to make it non slippery with all contractor's labour, tools, plant,consumable etc. complete with all lead and lift.	Sqm	2,345.15	240.00	5,62,837.02
4	9	9	Extra for cutting groove in granite provided in tread of steps upto 5mm wide and 6mm deep for drip course with all contractor's labour, tools, plant, consumable etc.complete with all lead and lift.	RM	2,084.58	135.00	2,81,418.51
5	10	10	Dismantling of damaged/ collapsed, corroded, perforated members like main angles of tressel, diagonal angles, bracing angles, Tees, flats, channels, main girder angles, gussets, bottom main angles etc. at any location as directed by the Engineers or site in charge under traffic & power block if required during day/night time. The rate includes contractors own labour, all tools & tackles, equipment, machineries required for the work like bolts & nuts, washer, gas (DA & Oxygen), paint, electrodes etc. including any type of scaffolding expenses. The rate also includes stacking of released materials and transport the same (which qty. not to be further used) to location advised by Engineer in charge by contractors own arrangement. NOTE- This item to be operated in connection with dismantaling of FOB and other steel structures	Metre	260.57	20,090.88	52,35,134.76
6	11	11	Supplying and driving of hard wood wooden piles of Eucalyptus or similar types of length varying from 5m to 6m and of average diameter 150 mm. The rate includes supplying and erecting of derricks, monkey, all other necessary equipments, tools, plants, fuel, labours, etc. as required for completion of the work in all respect. The rate also includes application of single layer bitumen on the ballah piles before they are driven into the ground.The ballah shall be driven only when these are passed by the competent authority and driving order is given.	Metre	1,302.86	330.28	4,30,309.75
						Total	1,96,30,556.72

Abstract of Cost / Package-II/ CIVIL

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SI No	Item- 1		Description of Item	Unit	Qty	Rate	Amount
						(Rs)	(Rs)
			Schedule B-Items of USSOR-2011				
	Item- 2		Items of USSOR - 2011				
			Earth work in excavation as per approved drawings and dumping at embankment site or spoil heap, within railway land, including 50m lead and 1.5m lift, the lead to be measured from the centre of gravity of excavation to centre of gravity of spoil heap: the lift to be measured from natural ground level and paid for in layers of 1.5m each, including incidental work, as per specifications-in				
1	1	011011	All kinds of soils	cum	521.15	88.16	45,944.18
2	2	011014	Hard Rock (blasting prohibited)	cum	104.23	690.07	71,925.36
3	3	012010	Extra over item 011010 for excavation in foundations for buildings and bridges to cover dressing to neat dimension and plumbing sides etc. Note : Dressing under this item is payable for the total quantity of excavation in foundation and not partly	cum	521.15	9.20	4,794.54
4	4	012050	Supplying and filling sand in plinth and under floors including watering, ramming, consolidating and dressing complete	cum	1,042.29	359.67	3,74,880.73

Abstract of Cost / Package-II/ CIVIL

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SI No	Item- 1		Description of Item	Unit	Qty	Rate (Rs)	Amount (Rs)
			Earthwork in cutting (Classified) in formation, trolley refuges, side drains, level crossing approaches, platforms, catch water drains, diversion of nallah & finishing to required dimension and slopes to obtain a neat appearance to standard profile inclusive of all labour, machine and materials and removing & leading all cut spoils either to make spoil dumps beyond 10m. from cutting edge or for filling in embankment with all leads within the section limit, lifts, ascent, descent, loading, unloading, all taxes/royalty, clearance of site and all incidental charges, bailing & pumping out water if required, etc., complete as per directions of the Engineer-in-Charge. The work is to be executed as per Latest / updated edition of "Guidelines for Earthwork in Railway Projects" issued by RDSO, Lucknow. Cut trees shall be property of Railways and to be deposited in the railway godown unless specified otherwise in the Special conditions of contract		-		-
5	5	013112	Soft rock not requiring blasting in all Conditions	cum	521.15	258.48	1,34,705.66
6	6	014110	Providing and removing barricading with the help of portable fencing along the running track where the work is to be done in close vicinity of the track. Fencing shall consist of self supporting steel angles of size 50 x50x6mm, 1.5m long provided with hooks etc. and embedded in CC 1:2:4 block of size 0.23x0.23x0.23M placed at c/c distance of 2.0 M along the track. 12 mm dia rods in three horizontal layers tack welded with the angle posts including providing Retro-reflective tapes in Horizontal & vertical direction. Note : Released material will be the property of the contractor after the completion of work. Cost of cement to be paid separately.	Metre	1,302.86	296.72	3,86,585.65

Abstract of Cost / Package-II/ CIVIL

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SI No	Item- 1		Description of Item	Unit	Qty	Rate (Rs)	Amount (Rs)
7	7	021070	Loading/Unloading ballast, kankar, brickbats, stone- chips, shingle, stone boulders, block kankar, pitching stones , rubble stones, laterite, coal, surkhi, dry mortar, sand , moorum, earth, manure or sludge, ashes, lime etc., including lead up to 50m and stacking into/from trucks, trailers or wagons	cum	10,422.91	41.23	4,29,736.49
8	8	021090	Leading ballast, kankar, brickbats, stone-chips, shingle, stone boulders, block kankar, pitching stones, rubble stones, laterite, coal, surkhi, dry mortar, sand, moorum, earth, manure or sludge, ashes, lime, debris, muck, malba, etc. for lead upto 25 km. Note : Lead under this item is payable when the same exceeds 500m	cum	5,211.45	106.00	5,52,414.12
			Providing and laying cement concrete, up to plinth in retaining walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc, excluding the cost of cement and of shuttering, centering		-		-
9	13	031023	1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size)	cum	52.11	2,325.34	1,21,184.02
10	14	031024	1:1.5:3 (1cement : 1.5 sand : 3 graded stone aggregate 20mm nominal size)	cum	938.06	2,325.34	21,81,312.40
			Providing and laying in position M 20 Grade concrete for reinforced concrete structural elements but excluding cost of centering, shuttering, reinforcement and Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge		-		-
11	15	041012	All work in buildings above plinth level upto floor two level.	cum	390.86	3,004.22	11,74,226.56
			Centering and shuttering including strutting, propping etc. and removal of form for :		-		-
12	16	042014	Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers	Sqm	521.15	208.55	1,08,684.87

Abstract of Cost / Package-II/ CIVIL

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SI No	Item- 1		Description of Item	Unit	Qty	Rate (Rs)	Amount (Rs)
13	17	042015	Columns, pillars, , posts and struts Providing, hoisting and fixing in position upto floor two level M20 Grade precast RCC work including setting in cement mortar 1:3 (1 cement : 3 coarse sand) and finishing smooth with 6mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete including cost of centering, shuttering, finishing, Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, excluding cost of cement and steel reinforcement, as per approved plan & direction of Engineer incharge.	Sqm	2,084.58	297.00	6,19,120.73
					-		-
14	18	043015	In slabs for drain covers, manhole covers, flue tops etc. Providing hand packed dry flat brick flooring, class designation 7.5 (FPS Bricks), excluding pointing with joints filled with sand over a bed of dry sand (ordinary)of average thickness 25 mm including ramming sub grade :	cum	469.03	3,223.38	15,11,864.67
					-		-
15	20	091032	Flat brick Providing & fixing Precast Chequered tiles conforming to IS:13801:1993, manufactured under mechanical vibration & hydraulic pressing machine in double layer; top layer of 10 to 12 mm thickness of Dolomite Powder, graded chips, fibre and UV stabilised iron oxide Lanexess colour and bottom layer of 1:3 CC mixed with galvanised steel fibre of approved quality, jointed with neat cement slurry mixed with pigment to match shade of tiles including rubbing and cleaning etc. complete on 20mm thick bed of cement mortar 1:4 of sizes :	Sqm	3,126.87	171.16	5,35,195.47
					-		-
16	21	094062	300mm x 300mm x 30mm thick 12 mm cement plaster of mix -	Sqm	3,648.02	646.93	23,60,012.12
					-		-
17	25	111011	1:4 (1cement: 4 fine sand)	Sqm	521.15	62.44	32,540.32
18	26	111090	12 mm cement plaster 1:3 (1cement: 3coarse sand) finished with a floating coat of neat cement	Sqm	521.15	78.37	40,842.16

Abstract of Cost / Package-II/ CIVIL

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SI No	Item- 1		Description of Item	Unit	Qty	Rate (Rs)	Amount (Rs)
19	27	115080	Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications with two or more coats applied @ 1.25ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr/10sqm	Sqm	52.11	83.49	4,351.04
20	28	121150	Painting two coats (excluding priming coat) with chocolate, red, grey or buff ready mixed paint of approved quality, on steel or wood work	Sqm	2,616.15	47.65	1,24,659.54
			Demolishing plain cement concrete including disposal of material within 50m lead		-		-
21	29	181021	1:2:4 or richer mix with max. 20 mm coarse aggregate	cum	521.15	448.29	2,33,624.27
22	30	181030	Demolishing R.C.C. work including cutting and stacking of steel bars and disposal of unserviceable material within 50m lead. (Extra payment for scraping, cleaning and straightening of bars to be made separately)	cum	114.65	654.01	74,983.55
			Demolishing brick work including stacking of serviceable material and disposal of unserviceable material within 50m lead		-		-
23	31	182013	In cement mortar	cum	312.69	378.50	1,18,352.12
24	32	183020	Dismantling tile work in floors/dado/skirting laid in cement mortar/ chemical mortar/synthetic adhesive including stacking material within 50m lead	Sqm	1,563.44	24.26	37,928.96
			Dismantling roofing including ridges, hips valleys and gutters etc. and stacking the material within 50m lead of		-		-
25	33	184081	G.I. sheet	Sqm	3,517.73	33.42	1,17,562.58
26	34	184082	Asbestos sheet	Sqm	781.72	15.59	12,186.98

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SI No	Item- 1		Description of Item	Unit	Qty	Rate (Rs)	Amount (Rs)
			Earth work in excavation for foundations and floors of the bridges, retaining walls etc., including setting out, dressing of sides, ramming of bottom, getting out the excavated material, back filling in layers with approved material and consolidation of the layers by ramming and watering etc. incl. all lift, disposal of surplus soil upto a lead of 300 M, all types of shoring and strutting with all labour and material complete as per drawing and technical specification as directed by Engineer in charge		-		-
27	35	192011	All kinds of soils	cum	5,211.45	316.31	16,48,434.99
28	36	192040	Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Cement Concrete M35 grade (Cast - in Situ) using 20 mm graded crushed stone aggregate and coarse sand of approved quality in RCC raft foundation & Pile cap including finishing, Using Admixtures in recommended proportions (as per IS 9103), if approved in Mix design to accelerate or retard setting of concrete and/or improve workability without impairing strength and durability complete as per specifications and direction of the Engineer in charge. Payment for cement, reinforcement and shuttering shall be paid	cum	1,980.35	2,178.24	43,13,683.00
			Centring and shuttering including strutting, propping etc. and removal of form for :		-		-
29	37	195031	RCC raft foundation & Pile cap	Sqm	3,387.45	145.90	4,94,228.23
30	42	222300	Dewatering of natural or accumulated water from any location. Payment to be done for Horse power of pump multiplied by pumping hours	HP Hou	1,302.86	24.80	32,311.01
						Total	1,78,98,276.32
			Schedule B1-Schedule B1 -Items of USSOR-2011				
	Item- 3		Supply of high yield strength deformed bars.				

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SI No	Item- 1		Description of Item	Unit	Qty	Rate	Amount
						(Rs)	(Rs)
			Supplying Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
1	1	045014	High yield strength deformed bars	Kg	1,30,286.35	69.36	90,36,661.09
						Total	90,36,661.09
			Schedule B2-Schedule B2 -Items of USSOR-2011				
	Item- 4		Supply of cement				
			Supply and using cement at worksite :				
1	1	033061	OPC 43 grade	Tonne	375.22	7302.50	27,40,078.24
2	2	033062	OPC 53 grade	Tonne	562.84	7360.00	41,42,480.49
						Total	68,82,558.73
			Schedule B3-Schedule B3-Items of USSOR-2011				
	Item- 5		Brick Work				
			Brick work with non-modular (FPS) bricks of class designation 7.5 in foundation and plinth in :				
1	1	051017	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	125.07	2206.10	2,75,927.72
2	2	051040	Extra over item 051010 & 051020 for brick work in superstructure beyond plinth level upto floor two level :	cum	125.07	151.99	19,010.13
			Half brick masonry with bricks of class designation 7.5 in foundations and plinth in :				
					-		-
3	3	051182	Cement mortar 1:4 (1 Cement : 4 coarse sand)	Sqm	260.57	265.31	69,132.54
4	4	051190	Extra for half Brick masonry in superstructure above plinth level upto floor two level	Sqm	260.57	42.15	10,983.14
						Total	3,75,053.54
			Total of All the Schedules -				5,38,23,106.40
			SAY				5,38,23,106.00