

**FOB/CIVIL/PACKAGE-II**

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

Item SI No	Description of Item	Unit	Qty	Rate	Amount
				(Rs)	(Rs)
<b>Schedule A</b>					
1	Providing, fabricating and supplying Hot-Dip Galvanized (300 gm/sqm), Holding Down Bolts of grade 8.8 conforming to IS:1367 (part3) -2002 (including latest amendment) and as per the detailed shop drawing including all assemblies and accessories that are required to be embedded in concrete work. Bolts shall be of sufficient length to ensure that a minimum 40 mm length of threaded portion is embedded in concrete. Threaded portion to be left projecting outside the concrete surface shall be as per requirement of supplier's design and approved drawings and shall be protected from damage. Cost of fabricated, assembled and supplied bolts shall include all necessary expenses incurred, including costs of all washers, nuts, lock nuts and pins that may be required for securing the structural bar with the embedded bolts.	Kg	3,826.791	₹ 127.18	₹ 4,86,691.28
2	"Driving (either Manual or Mechanical hammers) Z- section of M.S.Sheet piles side by side with one side of one into the groove 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	717.523	₹ 4,191.66	₹ 30,07,612.46
3	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	2,870.093	₹ 3,057.19	₹ 87,74,419.62
4	Extra for giving treatment to granite stone such as flame burring /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	2,152.570	₹ 234.79	₹ 5,05,401.91
5	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	1,913.395	₹ 132.07	₹ 2,52,702.08
6	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 dismantling of FOB and other steel structures	Metre	239.174	₹ 19,654.91	₹ 47,00,943.44

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				(Rs)	(Rs)
7	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	1,195.872	₹ 323.11	₹ 3,86,398.20
<b>Total of Schedule A</b>					<b>₹ 1,81,14,168.99</b>
<b>Schedule B</b>					
1	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				
a	All kinds of soils	cum	478.349	₹ 106.42	₹ 50,905.90
b	Hard Rock (blasting prohibited)	cum	95.670	₹ 832.97	₹ 79,690.24
2	Extra over item 1.a 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	478.349	₹ 11.11	₹ 5,314.46
3	Supplying and filling sand in plinth and under floors including watering, ramming, consolidating and dressing complete	cum	956.698	₹ 434.15	₹ 4,15,350.44
4	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				
a	Soft rock not requiring blasting in all Conditions	cum	478.349	₹ 312.01	₹ 1,49,249.67
5	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 close 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	1,195.872	₹ 358.16	₹ 4,28,313.52
6	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	9,566.977	₹ 49.77	₹ 4,76,148.45
7	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	4,783.488	₹ 127.95	₹ 6,12,047.29

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				(Rs)	(Rs)
8	Loading/Unloading G.I. sheets, rails, joists, built up sections, angles, C.I., Ductile pipes, A.C Pipes, or G.I. pipes RCC/PCC beams / slabs and other miscellaneous ironwork or wood work including lead upto 50m and stacking properly into/from trucks, trailers or wagons.				
a	Individual length upto 3.5 M	MT	478.349	₹ 127.29	₹ 60,889.04
9	Leading miscellaneous materials such as iron work, rails, fitting & fastenings, pipes, wooden logs, stones over pitching stone size, RCC/PCC beams / slabs etc. and all similar articles (each individual article or bundle being not more than 3.5 metres long in the longest direction) including picking up unloading and stacking, lead upto 50m.		287.009	₹ 120.35	₹ 34,541.53
10	Additional lead for every subsequent 50m or part thereof, over 50m and upto 500m over item no. 021140.	MT	2,583.084	₹ 33.47	₹ 86,455.82
12	Leading miscellaneous materials such as iron work, rails, fittings & fastenings, pipes, wooden logs, stones over pitching stone size, RCC/PCC beams / slabs etc and all similar articles (each individual article or bundle being not more than 3.5 metres long in the longest direction) including all loading, unloading and stacking, lead over 500m and upto 10 km. Note : Lead under this item is payable when the same exceeds 500m.	MT	287.009	₹ 231.37	₹ 66,405.27
13	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.				
a	1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size)	cum	47.835	₹ 2,806.87	₹ 1,34,266.63
b	1:1.5:3 (1cement : 1.5 sand : 3 graded stone aggregate 20mm nominal size)	cum	861.028	₹ 2,806.87	₹ 24,16,793.66
14	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				
a	All work in buildings above plinth level upto floor two level.	cum	358.762	₹ 3,626.33	₹ 13,00,989.40
15	Centering and shuttering including strutting, propping etc. and removal of form for :				
a	Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers	Sqm	478.349	₹ 251.74	₹ 1,20,419.58
b	Columns, pillars, , posts and struts	Sqm	1,913.395	₹ 358.50	₹ 6,85,952.11
16	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.				
a	In slabs for drain covers, manhole covers, flue tops etc.	cum	430.514	₹ 3,890.88	₹ 16,75,078.31
17	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 :				
a	Flat brick	Sqm	2,870.093	₹ 206.60	₹ 5,92,961.21
18	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 :				
a	300mm x 300mm x 30mm thick	Sqm	3,348.442	₹ 780.90	₹ 26,14,798.36

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				(Rs)	(Rs)
19	12 mm cement plaster of mix -				
a	1:4 (1cement: 4 fine sand)	Sqm	478.349	₹ 75.37	₹ 36,053.16
20	12 mm cement plaster 1:3 (1cement: 3coarse sand) finished with a floating coat of neat cement	Sqm	478.349	₹ 94.60	₹ 45,251.82
a	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	47.835	₹ 100.78	₹ 4,820.81
21	Painting two coats (excluding priming coat) with chocolate, red, grey or buff ready mixed paint of approved quality, on steel or wood work	Sqm	2,401.311	₹ 57.52	₹ 1,38,123.41
22	Demolishing plain cement concrete including disposal of material within 50m lead				
a	1:2:4 or richer mix with max. 20 mm coarse aggregate	cum	478.349	₹ 541.12	₹ 2,58,844.21
23	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	105.237	₹ 789.44	₹ 83,078.30
24	Demolishing brick work including stacking of serviceable material and disposal of unserviceable material within 50m lead				
a	In cement mortar	cum	287.009	₹ 456.88	₹ 1,31,128.67
25	Dismantling tile work in floors/dado/skirting laid in cement mortar/chemical mortar/synthetic adhesive including stacking material within 50m lead	Sqm	1,435.046	₹ 29.28	₹ 42,018.15
26	Dismantling roofing including ridges, hips valleys and gutters etc. and stacking the material within 50m lead of				
a	G.I. sheet	Sqm	3,228.855	₹ 40.34	₹ 1,30,252.01
b	Asbestos sheet	Sqm	717.523	₹ 18.82	₹ 13,503.78
27	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				
a	All kinds of soils	cum	4,783.488	₹ 381.81	₹ 18,26,383.55
28	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 extra	cum	1,817.726	₹ 2,629.31	₹ 47,79,365.15
29	Centring and shuttering including strutting, propping etc. and removal of form for :				
a	RCC raft foundation & Pile cap	Sqm	3,109.267	₹ 176.11	₹ 5,47,573.01
30	Dewatering of natural or accumulated water from any location. Payment to be done for Horse power of pump multiplied by pumping hours	HP Hour	1,195.872	₹ 29.94	₹ 35,804.41
31	Providing road crane of different capacity with diff. jib length revolving type for material handling, assembly & erection of girders/slab/RCC Box etc.				
a	150 MT capacity with 75 feet jib	Day	2.392	₹ 43,202.19	₹ 1,03,339.64
	<b>Total of Schedule B</b>				<b>₹ 2,01,82,110.97</b>
<b>Schedule B1</b>					
1	Supplying Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
a	High yield strength deformed bars	Kg	1,19,587.208	₹ 98.37	₹ 1,17,63,793.65
	<b>Total of Schedule B1</b>				<b>₹ 1,17,63,793.65</b>
<b>Schedule B2</b>					
1	Supply and using cement at worksite :				
a	OPC 43 grade	Tonne	344.411	₹ 8,814.70	₹ 30,35,879.64
b	OPC 53 grade	Tonne	516.617	₹ 8,884.11	₹ 45,89,682.26
	<b>Total of Schedule B2</b>				<b>₹ 76,25,561.90</b>

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				(Rs)	(Rs)
<b>Schedule B3</b>					
1	Brick work with non-modular (FPS) bricks of class designation 7.5 in foundation and plinth in :				
a	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	114.804	₹ 2,662.94	₹ 3,05,716.16
2	Extra over item 1.a for brick work in superstructure beyond plinth level upto floor two level :	cum	114.804	₹ 183.46	₹ 21,061.94
3	Half brick masonry with bricks of class designation 7.5 in foundations and plinth in :				
a	Cement mortar 1:4 (1 Cement : 4 coarse sand)	Sqm	239.174	₹ 320.25	₹ 76,595.47
4	Extra for half Brick masonry in superstructure above plinth level upto floor two level	Sqm	239.174	₹ 50.88	₹ 12,169.17
<b>Total of Schedule B3</b>					<b>₹ 4,15,542.75</b>
<b>Total of All the Schedules -</b>					<b>₹ 5,81,01,178.26</b>
<b>SAY</b>					<b>₹ 5,81,01,178.00</b>