

Summary of Bill of Quantities

Bill No.	Description	Amount (Rs)
1	<i>SITE CLEARANCE</i>	
2	<i>EARTHWORK AND DRAINS</i>	
3	<i>NON-BITUMINOUS SUBBASE AND BASE</i>	
4	<i>BITUMINOUS BASE AND SURFACE COURSE</i>	
5	<i>CROSS DRAINAGE WORK (HP & BOX CULVERTS)</i>	
6	<i>SLOPE PROTECTION WORKS</i>	
7	<i>MISCELLANEOUS ITEMS</i>	
8	<i>BRIDGE WORK</i>	
Total Tender Sum Rupees(in figures)		

BILL NO. 1 : SITE CLEARANCE						
Item No.	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
				In Figure	In Words	
1.01	Cutting of Trees, including Cutting of Trunks, Branches and Removal (Cutting of trees, including cutting of trunks, branches and removal of stumps, roots, stacking of serviceable material with all lifts and up to a lead of 1000 mtrs and earth filling in the depression/pit.)					
(i)	Girth from 300 mm to 600 mm	each	774			
(ii)	Girth from 600 mm to 900 mm	each	590			
(iii)	Girth from 900 mm to 1800 mm	each	270			
(iv)	Girth above 1800 mm	each	23			
1.02	Clearing Grass and Removal of Rubbish	hectare	92.56			
1.03	Clearing and Grubbing Road Land .(Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned up to a lead of 1000 metres including removal and disposal of top organic soil not exceeding 150 mm in thickness.)					
A	In area of light jungle	hectare	11.4597			
B	In area of thorny jungle	hectare	7.6398			
1.04	Dismantling of Structures (Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres)					
A	Lime Concrete, cement concrete grade M-10 and below	cum	150			
B	Cement Concrete Grade M-15 & M-20	cum	400			
C	Rubble stone masonry in cement mortar.	cum	600			
	Total Amount Bill No.1 carried to Summary					

BILL NO. 2 : EARTHWORK AND DRAINS						
Item No.	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
				In Figure	In Words	
2.01	Excavation for roadway and drains including haul upto 1 Km. complete as per Technical Specification Clause 301 and 302.					
	a) In all types of soil	Cum	2818978.5			
	b) In soft rock (not requiring blasting)	Cum	105645.009			
	c) In hard rock (requiring blasting)	Cum	105645.009			
2.02	Construction of Embankment with Material Deposited from Roadway Cutting (Construction of embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of table 300-2)	cum	119,036.07			
2.02	Construction of Subgrade and Earthen Shoulders (Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of table No. 300-2)	cum	170621.07			
2.04	Compacting original ground supporting subgrade (Loosening of the ground upto a level of 500 mm below the subgrade level, watered, graded and compacted in layers to meet requirement of table 300-2 for subgrade construction.)	cum	3000			
2.05	Turfing with Sods (Furnishing and laying of the live sods of perennial turf forming grass on embankment slope, verges or other locations shown on the drawing or as directed by the engineer including preparation of ground, fetching of sods and watering)	sqm	50000			
2.06	Providing and laying standard 'V' shaped drain with cement concrete base in 1:2:4 (1 cement, 2 clean coarse sand, 4 stone chips 20mm and down) mix of 100mm thick over clean hard selected stones soling of 150mm thick and 1:2:4 (1 cement, 2 clean coarse sand, 4 stone chips 40mm and down) mix plum concrete along the vertical side of thickness 150mm and depth 450mm including curing, compacting, as per the direction of the Engineer-in-Charge.	metre	20497			

2.07	Surface Drains in Hard Rock (Construction of unlined surface drain of average cross sectional area 0.4 sqm in ordinary rock to specified lines, grades, levels and dimensions as per approved design and to the requirement of clause 301 to 309. Excavated material to be used in embankment at site.)	metre	2195			
2.08	Construction of Rock fill Embankment (Construction of rock fill embankment with broken hard rock fragments of size not exceeding 300 mm laid in layers not exceeding 500 mm thick including filling of surface voids with stone spalls, blinding top layer with granular material, rolled with vibratory road roller, all complete as per clause 313)	cum	201419.575			
Total Amount Bill No.2 carried to Summary						

BILL NO. 3 : NON-BITUMINOUS SUBBASE AND BASE						
Item No.	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
				In Figure	In Words	
3.01	Construction of granular sub-base by providing close graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401 (for grading- I Material)	cum	53262.2			
3.02	Inverted Choke (Construction of inverted choke by providing, Laying, spreading and compecting screening B type/coarse sand of specified grade in uniform layer on a prepared surface with motor grader and compecting with power roller etc)	cum	658.5			
3.03	Wet Mix Macadam (Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.)	cum	43600.4			
	Total Amount Bill No.3 carried to Summary					

BILL NO. 4 : BITUMINOUS BASE AND SURFACE COURSE						
Item No.	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
				In Figure	In Words	
4.01	Prime coat (Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means.)	sqm	170145.2			
3.02	Tack coat (Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom.)	sqm	340290.3			
	Surface Dressing (Providing and laying surface dressing as wearing course in single coat using crushed stone aggregates of specified size on a layer of bituminous binder laid on prepared surface and rolling with 8-10 tonne smooth wheeled steel roller)	sqm	170145.2			
4.03	Dense Graded Bituminous Macadam (for GradingII(19 mm nominal size)(Providing and laying dense bituminous macadam with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.0 to 4.5% by weight of total mix of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 507 complete in all respects.)	cum	10209			

4.04	Bituminous Concrete (for Grading-II(10 mm nominal size)(Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 5.4 to 5.6 % of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects)	cum	6805.806			
	Total Amount Bill No.4 carried to Summary					

BILL NO.5 :		CROSS DRAINAGE WORK (HP & BOX CULVERTS)				
Item No.	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
				In Figure	In Words	
5.01	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs,saplings and tree girth up to 300 mm, removal of stumps of trees cut earlirer and disposal of unserviceable materials and stacking of serviceable material to be use ,as per Technical specifications 201	Sqm	106.2990			
5.02	Earthwork in excavation of foundation for structures including disposal of surplus excavated materials to Contractor's own dump site and complete as per Drawings and Technical Specification Clause 304.					
	a) In all types of soil and soft rock	Cum	14,104.88			
	b) Ordinary rock (not requiring blasting)	Cum	5,424.95			
	c) In hard rock (blasting prohibited)	Cum	2,169.98			
5.03	Backfilling behind abutments, wing walls etc. with selected earthen material complete as per Technical Specification Clauses 305 and 2907.	Cum	15,089.10			
5.04	Backfilling behind abutments, wing walls etc. with granular material complete as per Technical Specification Clauses 2907.	Cum	3,031.24			
5.05	Provide M15 plain cement concrete levelling course below culverts, wingwalls, catch pits, cross drains etc. complete as per Drawings and Technical Specification Clause 1700.	Cum	1,162.74			
5.06	Provide M20 plain cement concrete levelling course below culverts, wingwalls, catch pits, cross drains etc. complete as per Drawings and Technical Specification Clause 1700.	Cum				
5.07	Provide M25 reinforced cement concrete in culvert, headwalls and wing walls complete as per Drawings and Technical Specification Clause 1500 and 1700.	Cum	5,991.73			

5.08	Provide and fix in position HYSD Grade FE-415 reinforcement in culverts, headwalls, wingwalls parapets and cross drains complete as per Drawings and Technical Specification Clause 1600.	MT	748.97			
5.09	Provide coursed rubble masonry in cement mortar 1:3 in catch pits complete as per Drawings and Technical Specification Clause 1400.	Cum	1,639.87			
5.1	Provide 12mm thick cement mortar 1:4 plastering in catch pits complete as per Drawings and Technical Specification Clause 1312.	Sqm	2,157.43			
5.11	Provide mortared stone rubble pitching 1:4 to aprons and chutes complete as per Drawings and Technical Specification Clause 1400 and 2500.	Cum	180.00			
5.12	Providing ,Laying and jointing NP4 Reinforced Cement Concrete Pipe NP4 1200 mm diametre for culvert on concrete craddle bedding of in single row including flush joint with cement mortar 1:2 complete as per Technical specification clause 2905 and 2906.	RM	375.00			
	Total Amount Bill No.5 carried to Summary					

BILL NO. 6 :		SLOPE PROTECTION WORKS				
Item No.	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
				In Figure	In Words	
6.01	Earthwork in excavation of foundation for structures including disposal of surplus excavated materials to Contractor's own dump site and complete as per Drawings and Technical Specification Clause 304.					
	a) In all types of soil and soft rock	Cum	17,782.46			
	b) Ordinary rock (not requiring blasting)	Cum	8,891.23			
	c) In hard rock (Blasting prohibited)	Cum	2,963.74			
6.02	Provide filter material consisting of 70mm down stones hand-packed from bottom most weep hole to top most weep hole and properly compact the same behind retaining wall and breast wall, complete as per Drawing.	Cum	5,127.75			
6.03	Provide M15 plain cement concrete for foundation complete as per Drawing and Technical Specification Clause 1700.	Cum	2,160.60			
6.04	Stone random rubble masonry work in cement mortar 1:3 for structures like retaining wall , breast wall etc. complete as per Technical Specification Clause 1400 and 2705.	Cum	35,810.52			
6.05	Provide M20 plain cement concrete for coping of breast wall top complete as per Drawing and Technical Specification Clause 1700	Cum	160.88			
6.06	Provide 12mm thick cement mortar 1:4 plastering in parapet complete as per Drawings and Technical Specification Clause 1312.	Sqm	107.16			
6.07	Backfilling behind retaining wall and breast wall with selected earthen materials complete as per Technical Specification Clause 305.4.4	Cum	8,486.00			

6.08	Gabian Structure for Retaining Earth (Providing and construction of a gabain structure for retaining earth with segments of wire crates of size 7 m x 3 m x 0.6 m each divided into 1.5 m compartments by cross netting, made from 4 mm galvanised steel wire @ 32 kg per 10 sqm having minimum tensile strength of 300 Mpa conforming to IS:280 and galvanizing coating conforming to IS:4826, woven into mesh with double twist, mesh size not exceeding 100 x 100 mm, filled with boulders with least dimension of 200 mm, all loose ends to be tied with 4 mm galvanised steel wire)	Cum	5,740.00			
6.09	Recovery of hard rock obtaining from rock cutting	Cum	9870.44			
	Total Amount Bill No. 6 carried to Summary					

BILL NO. 07	MISCELLANEOUS ITEMS					
Item No.	Description	Unit	Quantity	Unit Rate (Rs.)		Amount (Rs.)
				In Figure	In Words	
7.01	Direction and Place Identification signs with size more than 0.9 sqm size board. (Providing and erecting direction and place identification retro-reflectorised sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing)					
a	(a) Advance direction, destination/reassurance sign	Sqm	20			
b	(b) Other informatory signs	No	200			
7.02	Painting Lines, Dashes, Arrows etc on Roads in Two Coats on New Work (Painting lines, dashes, arrows etc on roads in two coats on new work with ready mixed road marking paint conforming to IS:164 on bituminous surface, including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control)					
	Over 10 cm in width	sqm	5,800			
7.03	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes.)	Sqm	579			
7.04	Kilo Metre Stone (Reinforced cement concrete M15grade kilometre stone of standard design as per IRC:8-1980, fixing in position including painting and printing etc)					
	5th kilometre stone (precast)	No	4			
	Ordinary Kilometer stone (Precast)	No	19			
	Hectometer stone (Precast)	No	92			

7.05	Road Delineators (Supplying and installation of delineators (road way indicators, hazard markers, object markers), 80-100 cm high above ground level, painted black and white in 15 cm wide stripes, fitted with 80 x 100 mm rectangular or 75 mm dia circular reflectorised panels at the top, buried or pressed into the ground and confirming to IRC-79 and the drawings.)	No	526			
7.06	Provid and fix in position road delineators (guard stone) at locations as directed by the Engineer and complete as per Drawing and Technical Specification Clause 805	No	1,940			
7.07	Type - A, "W" : Metal Beam Crash Barrier (Providing and erecting a "W" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 70 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 1.8 m high, 1.1 m below ground/road level, all steel parts and fitments to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a spacer of channel section 150 x 75 x 5 mm, 330 mm long complete as per clause 810)	metre	6,000			
7.11	Planting of Trees and their Maintenance for one Year (Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge manure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year)	each	500			
7.12	Construct speed humps complete as per Drawing and Technical Specification Clause 812.	No.	35			
7.13	Provide temporary service culverts using 600mm dia. NP2 Hume pipes, including excavation, placing pipe, backfilling, maintenance and removal of culverts	M	25			
	Total Amount Bill No. 7 carried to Summary					

CONSTRUCTION OF 42 MTR SPAN PSC GIRDER BRIDGE

Item No	Description	A/U	Quantity	Unit Rate (Rs.)		Amount (Rs.)
				In Figure	In Words	
<u>A</u>	<u>Foundation</u>					
1.0	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material					
	(I) Depth upto 3 m	Cum	7481.01			
	(ii) 3m to 6 m	Cum	3740.51			
	(iii) above 6 m	Cum	3740.51			
2.0	Providing and laying of PCC M 15 levelling course 100 mm thick below the foundation	Cum	34.45			
3.0	Providing and laying of PCC M 15 in toe portion below SDR Level	Cum	60.72			
4.0	Plain/Reinforced Cement Concrete in M 30 in open foundation complete as per Drawing and Technical specifications	Cum	195.05			
5.00	Supplying, fitting and placing uncoated HYSD bar reinforcement in foundation complete as per drawing and Technical specifications	Cum	24.38			
	Total					
<u>B</u>	<u>Sub Structure</u>					
1	Plain/Reinforced Cement Concrete in open foundation complete as per Drawing and Technical specifications					
	a)PCC Grade M 30 upto 5 m	Cum	107.14			
	b)PCC Grade M 30 above 5 m and upto 10 m	Cum	64.28			
	c)PCC Grade M 30 above 10 m	Cum	42.86			

2	Supplying, fitting and placing uncoated HYSD bar reinforcement in substructure complete as per drawing and Technical specifications	MT	31.07			
3	Providing weep holes in brick masonry/plain/reinforced concrete abutment, wing wall/return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V : 20H towards drawing face. Complete as per drawing and Technical Specifications	Nos	144			
4	Backfilling behind abutment, wing wall and return wall complete as per drawing and Technical specifications	Cum	1355.15			
5.00	Providing and laying of Filter media with granular materials/stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2 of MOSRT&H specifications to a thickness of not less than 600mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and Technical specifications	Cum	156.36			
6.00	Supplying, fitting and fixing in position true to line and level elastomeric bearing conforming to IRC: 83 (Part-II) section IX and clause 2005 of MoRTH specifications complete including all accessories as per drawing and Technical Specifications.	cubic centimetre	260096			
	Total(B)					
C	<u>Super Structure</u>					
1	Furnishing and placing reinforced/Prestressed cement concrete in superstructure as per drawing and Technical specifications					
	RCC Grade M 30	Cum	61.11			
	RCC Grade M 40	Cum	424.08			
2	Supplying, fitting and placing HYSD bar reinforcement in superstructure complete as per drawing and Technical specifications	MT	77.63			

3	High tensile steel wire/strands including all accessories for stressing, stressing operations and grouting complete as per drawing and Technical specifications	MT	16.11			
4	Providing and laying 56mm thick mastic asphalt wearing course on top of deck slab excluding prime coat with paving grade bitumen meeting the requirements given in Table 500-29, prepared by using mastic cooker and laid to required level and slope after cleaning the surface including providing anti-skid surface with bitumen precoated fine grained hard stone chipping of 9.50mm nominal size at the rate of 0.005 cum per 10 Sqm and at an approximate spacing of 10 cm center to center in both directions pressed into surface when the temperature of surfaces not less than 100 C protruding 1mm to 4mm over mastic surfaces all complete as per clause 515.	SQM	541.49			
5	Drainage spouts complete as per drawing and Technical Specifications	Nos	16.00			
6.00	PCC M 15 grade levelling course below approach slab complete as per drawing and Technical Specifications	Cum	12.92			
7.00	Reinforced cement concrete approach slab , dirt wall in RCC M 30 grade including reinforcement and form work complete as per drawing and Technical specifications	Cum	25.83			
8	(iii) Providing and fixing in position 20mm thick premoulded joint filler in expansion joint for fixed ends of simply supported spans not exceeding 10m to cater for a horizontal movement upto 20mm covered with sealant complete as per drawing and Technical specifications	RM	25.80			
9.00	Providing and laying of a strip seal expansion joint catering to maximum horizontal movement upto 70mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring	RM	25.80			
	Total					

CONSTRUCTION OF (2x42) MTR SPAN PSC I GIRDER BRIDGE

Item No	Description	A/U	Quantity	Unit Rate (Rs.)		Amount (Rs.)
				In Figure	In Words	
<u>A</u>	<u>Foundation</u>					
1.0	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material					
	(I) Depth upto 3 m	Cum	818.80			
2.0	Providing and laying of PCC M 15 levelling course 150 mm thick below the foundation	Cum	49.13			
3.0	Cement concrete for reinforced concrete in pile cap M35 complete as per drawing and Technical Specification	Cum	617.66			
4.00	Supplying, fitting and placing uncoated HYSD bar reinforcement in foundation complete as per drawing and Technical specifications	Cum	133.19			
5.00	Bored cast-in-situ M35 grade R.C.C. pile excluding reinforcement complete as per drawing and technical specifications and removal of excavated earth with all lifts and lead upto 1000 m. (Pile diameter-1200 mm)	RM	495.00			
	Total					
<u>B</u>	<u>Sub Structure</u>					
1	Plain/Reinforced Cement Concrete in open foundation complete as per Drawing and Technical specifications					
	a)PCC Grade M 30 upto 5 m	Cum	130.40			
	b)PCC Grade M 30 above 5 m and upto 10 m	Cum	78.24			
	c)PCC Grade M 30 above 10 m	Cum	52.16			

2	Supplying, fitting and placing uncoated HYSD bar reinforcement in substructure complete as per drawing and Technical specifications	MT	37.82			
3	Providing weep holes in brick masonry/plain/reinforced concrete abutment, wing wall/return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V : 20H towards drawing face. Complete as per drawing and Technical Specifications	Nos	24			
4	Backfilling behind abutment, wing wall and return wall complete as per drawing and Technical specifications	Cum	529.74			
5.00	Providing and laying of Filter media with granular materials/stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2 of MOSRT&H specifications to a thickness of not less than 600mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and Technical specifications	Cum	73.92			
6	Supplying, fitting and fixing in position true to line and level elastomeric bearing conforming to IRC: 83 (Part-II) section IX and clause 2005 of MoRTH specifications complete including all accessories as per drawing and Technical Specifications.	cubic centimetre	520192			
	Total(B)					
C	<u>Super Structure</u>					
1	Furnishing and placing reinforced/Prestressed cement concrete in superstructure as per drawing and Technical specifications					
	RCC Grade M 30	Cum	110.80			
	RCC Grade M 40	Cum	848.63			
2	Supplying, fitting and placing HYSD bar reinforcement in superstructure complete as per drawing and Technical specifications	MT	153.51			
3	High tensile steel wire/strands including all accessories for stressing, stressing operations and grouting complete as per drawing and Technical specifications	MT	32.25			

4	Providing and laying 56mm thick mastic asphalt wearing course on top of deck slab excluding prime coat with paving grade bitumen meeting the requirements given in Table 500-29, prepared by using mastic cooker and laid to required level and slope after cleaning the surface including providing anti-skid surface with bitumen precoated fine grained hard stone chipping of 9.50mm nominal size at the rate of 0.005 cum per 10 Sqm and at an approximate spacing of 10 cm center to center in both directions pressed into surface when the temperature of surfaces not less than 100 C protruding 1mm to 4mm over mastic surfaces all complete as per clause 515.	SQM	981.75			
6	Drainage spouts complete as per drawing and Technical Specifications	Nos	34.00			
7.00	PCC M 15 grade levelling course below approach slab complete as per drawing and Technical Specifications	Cum	12.92			
8.00	Reinforced cement concrete approach slab , footpath in RCC M 30 grade including reinforcement and form work complete as per drawing and Technical specifications	Cum	66.50			
9	(iii) Providing and fixing in position 20mm thick premoulded joint filler in expansion joint for fixed ends of simply supported spans not exceeding 10m to cater for a horizontal movement upto 20mm covered with sealant complete as per drawing and Technical specifications	RM	51.60			
10.00	Providing and laying of a strip seal expansion joint catering to maximum horizontal movement upto 70mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring	RM	51.60			
	Total					

CONSTRUCTION OF 42 MTR SPAN PSC GIRDER BRIDGE

Item No	Description	A/U	Quantity	Unit Rate (Rs.)		Amount (Rs.)
				In Figure	In Words	
<u>A</u>	<u>Foundation</u>					
1.0	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material					
	(I) Depth upto 3 m	Cum	5347.36			
	(ii) 3m to 6 m	Cum	2673.68			
	(iii) above 6 m	Cum	2673.68			
2.0	Providing and laying of PCC M 15 levelling course 150 mm thick below the foundation	Cum	34.45			
3.0	Providing and laying of PCC M 15 in toe portion below SDR Level	Cum	60.72			
4.0	Plain/Reinforced Cement Concrete in M 30 in open foundation complete as per Drawing and Technical specifications	Cum	195.05			
5.00	Supplying, fitting and placing uncoated HYSD bar reinforcement in foundation complete as per drawing and Technical specifications	Cum	24.38			
	Total					
<u>B</u>	<u>Sub Structure</u>					
1	Plain/Reinforced Cement Concrete in open foundation complete as per Drawing and Technical specifications					
	a)PCC Grade M 30 upto 5 m	Cum	109.78			
	b)PCC Grade M 30 above 5 m and upto 10 m	Cum	65.87			
	c)PCC Grade M 30 above 10 m	Cum	43.91			
2	Supplying, fitting and placing uncoated HYSD bar reinforcement in substructure complete as per drawing and Technical specifications	MT	31.84			

3	Providing weep holes in brick masonry /plain/reinforced concrete abutment , wing wall/return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V : 20H towards drawing face. Complete as per drawing and Technical Specifications	Nos	144			
4	Backfilling behind abutment, wing wall and return wall complete as per drawing and Technical specifications	Cum	1288.20			
5.00	Providing and laying of Filter media with granular materials/stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2 of MOSRT&H specifications to a thickness of not less than 600mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and Technical specifications	Cum	148.64			
6.00	Supplying, fitting and fixing in position true to line and level elastomeric bearing conforming to IRC: 83 (Part-II) section IX and clause 2005 of MoRTH specifications complete including all accessories as per drawing and Technical Specifications.	cubic centimetre	260096			
	Total(B)					
C	<u>Super Structure</u>					
1	Furnishing and placing reinforced/Prestressed cement concrete in superstructure as per drawing and Technical specifications					
	RCC Grade M 30	Cum	61.11			
	RCC Grade M 40	Cum	424.08			
2	Supplying, fitting and placing HYSD bar reinforcement in superstructure complete as per drawing and Technical specifications	MT	77.63			
3	High tensile steel wire/strands including all accessories for stressing, stressing operations and grouting complete as per drawing and Technical specifications	MT	16.11			

4	Providing and laying 56mm thick mastic asphalt wearing course on top of deck slab excluding prime coat with paving grade bitumen meeting the requirements given in Table 500-29, prepared by using mastic cooker and laid to required level and slope after cleaning the surface including providing anti-skid surface with bitumen precoated fine grained hard stone chipping of 9.50mm nominal size at the rate of 0.005 cum per 10 Sqm and at an approximate spacing of 10 cm center to center in both directions pressed into surface when the temperature of surfaces not less than 100 C protruding 1mm to 4mm over mastic surfaces all complete as per clause 515.	SQM	541.49			
5	Drainage spouts complete as per drawing and Technical Specifications	Nos	16.00			
6.00	PCC M 15 grade levelling course below approach slab complete as per drawing and Technical Specifications	Cum	12.92			
7.00	Reinforced cement concrete approach slab , dirt wall in RCC M 30 grade including reinforcement and form work complete as per drawing and Technical specifications	Cum	25.83			
8	(iii) Providing and fixing in position 20mm thick premoulded joint filler in expansion joint for fixed ends of simply supported spans not exceeding 10m to cater for a horizontal movement upto 20mm covered with sealant complete as per drawing and Technical specifications	RM	25.80			
9.00	Strip Seal Expansion Joint (Providing and laying of a strip seal expansion joint catering to maximum horizontal movement upto 70 mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installation.)	RM	25.80			
	Total					