

# PRADHAN MANTRI GRAM SADAK YOJANA



WEST BENGAL STATE RURAL DEVELOPMENT AGENCY

BLOCK - HC, PLOT NO - 7, SECTOR - 3

BIDHAN NAGAR, SALT LAKE CITY, KOLKATA - 700 106

Bridge on un-bridged gap over existing PMGSY road namely Majhergram to Gabrupur in Road of L040-  
Majhergram to Gabrupur via Piagram Under Monteswar Block

## "PMGSY BRIDGES"

PACKAGE NO	:	WB-22-BRI-02	
BLOCK	:	Monteswar	
DISTRICT	:	Purab Burdwan	
TOTAL SPAN OF BRIDGE	:	63.00	M
TOTAL COST OF PROJECT	:	560.03	Lakh
COST PER METRE	:	8.89	Lakh

<b>District:</b>	<b>Purab Burdwan</b>	
<b>Block:</b>	<b>Monteswar</b>	
<b>Name of Work:</b>	<b>Bridge on un-bridged gap over existing PMGSY road namely Majhergram to Gabrupur in Road of L040- Majhergram to Gabrupur via Piagram Under Monteswar Block</b>	
<b>Span (m):</b>	<b>3 x 21.0m (63.0m)</b>	
<b>Package No.:</b>	<b>WB-22-BRI-02</b>	
<b>Sl. No.</b>	<b>Item Description</b>	<b>Estimated Rate (Rs.)</b>
1.00	FOUNDATION WORKS	23078246.44
2.00	SUB-STRUCTURE WORKS	6616087.07
3.00	SUPER-STRUCTURE	5498010.32
4.00	APPROACH ROAD WORKS & TRAFFIC SIGNS AND OTHER ROAD APPURTENANCES	9036569.60
5.00	RIVER TRAINING & PROTECTION WORKS	2424130.78
8.00	<b>Construction Cost Excluding GST and Labour Welfare CESS</b>	<b>46653044.21</b>
9.00	<b>Add @ 12% GST on Cost of Construction</b>	<b>5598365.31</b>
10.00	<b>Add @ 1% Labour Welfare CESS on Cost of Construction including GST as above</b>	<b>522514.10</b>
11.00	<b>Total Construction Cost Including GST and Labour Welfare CESS (8+9+10)</b>	<b>52773923.61</b>
12.00	1st Year Routine Maintenance	293906.35
13.00	2nd Year Routine Maintenance	286766.35
14.00	3rd Year Routine Maintenance	320941.83
15.00	4th Year Routine Maintenance	893015.78
16.00	5th Year Routine Maintenance	1060135.37
17.00	<b>Maintenance Cost Excluding GST and Labour Welfare CESS</b>	<b>2854765.68</b>
18.00	<b>Add @ 12% GST on Cost of Maintenance</b>	<b>342571.88</b>
19.00	<b>Add @ 1% Labour Welfare CESS on Cost of Maintenance including GST as above</b>	<b>31973.38</b>
20.00	<b>Total Maintenance Cost Including GST and Labour Welfare CESS (17+18+19)</b>	<b>3229310.94</b>
<b>Total in Figures</b>		<b>56003235.00</b>
Rupees Five Crore Sixty Lakh Three Thousand Two Hundred ThirtyFive Only		

PRADHAN MANTRI GRAM SADAK YOJANA (PMGSY) 1. SCHEDULE OF QUANTITIES (SQ) : FOUNDATION WORKS						
District Block	Purab Burdwan Monteswar					
Name of Work	Bridge on un-bridged gap over existing PMGSY road namely Majhergram to Gabrupur in Road of L040- Majhergram to Gabrupur via Piagram Under Monteswar Block					
Package	WB-22-BRI-02					
Sl. No.	Brief Description of Item	Unit	Quantity	Rate (Rs)		Amount (Rs)
1.01	Excavation for Structures Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, removing, spreading or stacking of spoils within a lead of 150 m. as directed and including trimming the sides of the trenches, leveling, dressing and ramming the bottom, and backfilling with approved material complete as per direction of the Engineer-in-Charge.					
	I: Ordinary Soil upto 3 meter	Cum	931.500	124.00	Rupees One Hundred TwentyFour Only	115,506.00
	II: Ordinary Soil 3meter to 6m	Cum	777.000	165.00	Rupees One Hundred SixtyFive Only	128,205.00
1.02	Earthwork in filling in foundation trenches with good earth in layers not exceeding 15cm. including watering and ramming layer by layer complete with earth obtained from excavation of foundation or from fresh excavation of land arranged by Department within a lead of 150 m.	cum	683.730	92.00	Rupees NinetyTwo Only	62,903.16
1.03	Earth in filling in foundation trenches and at the back of abutments with good earth (sandy soil) in layers not exceeding 15 cm. including watering and ramming layer by layer complete with earth obtained by fresh excavation from land arranged by Department beyond 150 m. but within 300 m. including all lifts. Earth to be approved by the Engineer-in-charge.	cum	235.630	161.00	Rupees One Hundred SixtyOne Only	37,936.43
1.04	Providing and laying Design Mix concrete for plain / reinforced concrete work in any part of bridge (excluding bottom plugging) with coarse aggregates of appropriate nominal size and grading, fine aggregate (sand) conforming to proper grading zone, both of approved quality and cement, as necessary, including labour, cost and carriage of all materials and including preparation of design mix, approval of the same by the Engineer-in-Charge and cost for quality control, sampling, testing etc. all complete but excluding cost of labour and materials for formwork & reinforcement works. a) PCC Grade M15 (Pakur Variety Stone)	Cum	68.200	4891.82	Rupees Four Thousand Eight Hundred NinetyOne Paise EightyTwo Only	333,622.12
1.05	Plain / Reinforced Cement Concrete in Open foundation with or without reinforcements, in any part of foundation of bridges / culverts with graded stone chips of appropriate nominal sizes, including screening and cleaning of coarse aggregates, fine aggregate (sand) conforming to proper grading zone, both of approved quality and cement, as necessary, cost of curing with water, including cost and carriage of all materials and including preparation of design mix, approval of the same by the Engineer-in-Charge, cost for quality control, sampling, testing etc. including cost of formwork but excluding reinforcement complete as per drawing and technical specifications. F-RCC Grade M30 (Pakur Variety Stone)	Cum	385.440	6078.18	Rupees Six Thousand SeventyEight Paise Eighteen Only	2,342,773.70
1.06	Supplying, fitting and placing un-coated HYSD bar reinforcement in Bridge Foundation including initial straightening, straightening of coils bars, removal of loose rust (if any), cutting to requisite length bending, binding with annealed wire not less than 1 mm in size and conforming to IS 280 at every intersection hooked and bent to correct shape and placed on forms etc. including cost of black annealed wire and cost of loading, unloading, carriage of all steel materials complete as per drawing and technical specifications and direction of Engineer-in-charge. (Steel Bar SAIL/TATA/RINL)	MT	46.250	60731.26	Rupees Sixty Thousand Seven Hundred ThirtyOne Paise TwentySix Only	2,808,820.78
1.07	Providing Bored Cast-in-situ R.C.C. M 35 pile in position as per specifications in all kinds of soil including cost of boring using drilling mud to stabilize the bore and flushing the bore of excess mud with freshly prepared drilling fluid by using pumps prior to placing concrete by tremie pipe in one continuous operation and including the cost of all materials and labour for placing of concrete and also including the cost of mobilization and hire charges of all equipment necessary for boring, welding of reinforcement cage as necessary and lowering of reinforcement cage, preparation and placing of concrete, including the cost of concrete but excluding the cost of reinforcement and labour for bending binding etc. complete as per Drawing and Technical Specifications and removal of excavated earth with all lifts and lead upto 1000 m.Work to be executed as per IS: 2911 (Part II Sec 2). B- Using Tripod, Winches (Pakur Variety Stone)	m	1075.000	6781.55	Rupees Six Thousand Seven Hundred EightyOne Paise FiftyFive Only	7,290,166.25
1.08	Supplying, fitting and placing un-coated HYSD bar reinforcement in Bridge Foundation including initial straightening, straightening of coils bars, removal of loose rust (if any), cutting to requisite length bending, binding with annealed wire not less than 1 mm in size and conforming to IS 280 at every intersection hooked and bent to correct shape and placed on forms etc. including cost of black annealed wire and cost of loading, unloading, carriage of all steel materials complete as per drawing and technical specifications and direction of Engineer-in-charge. (for Pile) (Steel Bar SAIL/TATA/RINL)	MT	119.620	60731.26	Rupees Sixty Thousand Seven Hundred ThirtyOne Paise TwentySix Only	7,264,673.32
1.09	Providing Steel liner for Curbs and 6 mm thick for Steining of Wells including fabricating and setting out as per detailed drawing. Note : Add cost & carriage of materials only to arrive at the consolidated rate. a) 6 ~ 10 mm thick	MT	50.880	49761.00	Rupees FortyNine Thousand Seven Hundred SixtyOne Only	2,531,839.68
1.10	Performing Lateral load test on two piles or two groups of piles by introducing a hydraulic jack with gauge between two piles or pile groups under test by applying horizontal loads in increments of about 20% of the estimated safe load at each stage and applying the next increment after the rate of displacement is nearer to 0.1 mm. per 30 minutes till the total displacement becomes, 12 mm at the cut-off level including the cost of arranging the entire set-up, hire charges of all implements including at least two dial gauges, repairing the pile head if necessary, and removal of all arrangement after completion etc. complete in all respect including cost of carriage of all materials and as per IS specification and direction of Engineer-in-charge.	Each	1.000	27400.00	Rupees TwentySeven Thousand Four Hundred Only	27,400.00
1.11	Performing Vertical load test on single Pile in accordance with IS:2911(Part-IV) by hydraulic jacks on pile/piles with 1.5 times the design load including preparation of the head of piles with concrete of required strength for receiving the jacks with all ancillary arrangements for setting up gauges, construction of suitable platforms, keeping the loads and dismantling and removing all arrangement etc. complete as per IS specification and direction of Engineer-in-charge ii) Testing load between 100 T and 150 T	Each	2.000	67200.00	Rupees SixtySeven Thousand Two Hundred Only	134,400.00
TOTAL COST FOR FOUNDATION WORKS						23,078,246.44

PRADHAN MANTRI GRAM SADAK YOJANA (PMGSY)  
2. SCHEDULE OF QUANTITIES (SOQ) : SUB-STRUCTURE WORKS

**District** Purab Burdwan  
**Block** Monteswar

**Name of Work** Bridge on un-bridged gap over existing PMGSY road namely Majhergram to Gabrupur in Road of L040-Majhergram to Gabrupur via Piagram Under Monteswar Block

**Package** WB-22-BRI-02

Sl. No.	Brief Description of Item	Unit	Quantity	Rate (Rs)	Amount (Rs)
2.01	Plain / Reinforced Cement Concrete in Substructure with coarse aggregates of appropriate nominal size and grading, fine aggregate (sand) conforming to proper grading zone, both of approved quality, cement and water reducing admixtures, as necessary, including labour, cost and carriage of all materials and including preparation of design mix, approval of the same by the Engineer-in-Charge and cost for quality control, sampling, testing etc. all complete as per drawing and technical specification including the cost of necessary form work and staging complete as per drawing and technical specifications. <b>For height upto 5m</b> <b>F (i) : RCC M30</b> <b>(Pakur Variety Stone)</b>	Cum	294.70	6402.18	Rupees Six Thousand Four Hundred Two Paise Eighteen Only 1,886,722.45
2.01	Plain / Reinforced Cement Concrete in Substructure with coarse aggregates of appropriate nominal size and grading, fine aggregate (sand) conforming to proper grading zone, both of approved quality, cement and water reducing admixtures, as necessary, including labour, cost and carriage of all materials and including preparation of design mix, approval of the same by the Engineer-in-Charge and cost for quality control, sampling, testing etc. all complete as per drawing and technical specification including the cost of necessary form work and staging complete as per drawing and technical specifications. <b>For height above 5m</b> <b>F (i) : RCC M30</b> <b>(Pakur Variety Stone)</b>	Cum	120.48	6556.18	Rupees Six Thousand Five Hundred FiftySix Paise Eighteen Only 789,888.57
2.02	Supplying, fitting and placing HYSD bar reinforcement in Sub-structure including initial straightening, straightening of coils bars, removal of loose rust (if any), cutting to requisite length bending, binding with annealed wire not less than 1 mm in size and conforming to IS 280 at every intersection hooked and bent to correct shape and placed on forms etc. including cost of black annealed wire and cost of loading, unloading, carriage of all steel materials complete as per drawing and technical specifications and direction of Engineer-in-charge. <b>(Steel Bar SAIL/TATA/RINL)</b>	MT	55.56	60864.26	Rupees Sixty Thousand Eight Hundred SixtyFour Paise TwentySix Only 3,381,618.29
2.03	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	101.00	115.00	Rupees One Hundred Fifteen Only 11,615.00
2.04	Back filling behind abutment, wing wall and return wall complete as per drawing and Technicalspecification. <b>I: Granular Material</b>	Cum	133.58	1388.12	Rupees One Thousand Three Hundred EightyEight Paise Twelve Only 185,425.07
2.05	Providing and laying of Filter media with granular materials / stone crushed aggregates / brickaggregates / river bed materials satisfying the requirements laid down in clause 2504.2.2 of MoRT&H Specifications to a thickness of not less than 600 mm 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 technicalspecification.	Cum	148.20	1736.12	Rupees One Thousand Seven Hundred ThirtySix Paise Twelve Only 257,292.98
2.06	Excavation for Structures Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, removing, spreading or stacking of spoils within a lead of 150 m. as directed and including trimming the sides of the trenches, leveling, dressing and ramming the bottom, and backfilling with approved material complete as per direction of the ngeiner-in Charge . <b>I: (i) Ordinary Soil upto 3 meter</b>	Cum	428.54	124.00	Rupees One Hundred TwentyFour Only 53,138.96
2.07	Providing and laying Design Mix concrete for plain / reinforced concrete work in any part of bridge (excluding bottom plugging) with coarse aggregates of appropriate nominal size and grading, fine aggregate (sand) conforming to proper grading zone, both of approved quality and cement, as necessary, including labour, cost and carriage of all materials and including preparation of design mix, approval of the same by the Engineer-in-Charge and cost for quality control, sampling, testing etc. all complete but excludingcost of labour and materials for formwork & reinforcement works. <b>A: RCC M15</b> <b>(Pakur Variety Stone)</b>	Cum	10.30	4891.82	Rupees Four Thousand Eight Hundred NinetyOne Paise EightyTwo Only 50,385.75
<b>TOTAL COST FOR SUB-STRUCTURE WORKS</b>					<b>6,616,087.07</b>

## 3. SCHEDULE OF QUANTITIES (SOQ) : SUPER-STRUCTURE WORKS

District **Purab Burdwan**  
Block **Monteswar**

Name of Work **Bridge on un-bridged gap over existing PMGSY road namely Majhergram to Gabrupur in Road of L040-Majhergram to Gabrupur via Piagram Under Monteswar Block**

Package **WB-22-BRI-02**

Sl. No.	Brief Description of Item	Unit	Quantity	Rate (Rs)	Amount (Rs)
3.01	Furnishing and Placing Reinforced / Prestressed Cement concrete in Super-structure with coarse aggregates of appropriate nominal size and grading, fine aggregate (sand) conforming to proper grading zone, both of approved quality and cement and admixtures, as necessary, including labour, cost and carriage of all materials and including preparation of design mix, approval of the same by the Engineer-in-Charge and cost for quality control, sampling, testing etc. all complete as per drawing and technical specification including the cost of necessary form work and staging complete. <b>(C) RCC M-30 Grade For Solid Slab Super-Structure, Using concrete mixer (Height 5m to 10 m)</b> <b>(Pakur Variety Stone)</b>	Cum	281.52	7424.18 Rupees Seven Thousand Four Hundred TwentyFour Paise Eighteen Only	2,090,055.15
3.02	Supplying, fitting and placing HYSD bar reinforcement in Bridge Super-structure including initial traightening, straightening of coils bars, removal of loose rust (if any), cutting to requisite length bending, binding, with annealed wire not less than 1 mm in size and conforming to IS 280 at every intersection hooked and bent to correct shape and placed on forms etc. including cost of black annealed wire and cost of loading, unloading, carriage of all steel materials complete as per drawing and technical specifications. <b>(Steel Bar SAIL/TATA/RINL)</b>	MT	37.60	61782.26 Rupees SixtyOne Thousand Seven Hundred EightyTwo Paise TwentySix Only	2,323,012.98
3.03	Plain / Reinforced Cement Concrete in Substructure with coarse aggregates of appropriate nominal size and grading, fine aggregate (sand) conforming to proper grading zone, both of approved quality, cement and water reducing admixtures, as necessary, including labour, cost and carriage of all materials and including preparation of design mix, approval of the same by the Engineer-in-Charge and cost for quality control, sampling, testing etc. all complete as per drawing and technical specification including the cost of necessary form work and staging complete as per drawing and technical specifications. <b>IV: RCC M15</b> <b>(Pakur Variety Stone)</b>	Cum	5.78	4891.82 Rupees Four Thousand Eight Hundred NinetyOne Paise EightyTwo Only	28,274.72
3.04	<b>Filler Joint</b> II) Providing and fixing 20 mm thick compressible fibre board in expansion joint complete as per drawing and technical specifications	m	20.00	259.00 Rupees Two Hundred FiftyNine Only	5,180.00
3.05	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 MoRT&H specifications complete including all accessories as per drawing and Technical Specifications.	Cu Cm	181440.00	1.00 Rupee One Only	181,440.00
3.06	Drainage Spouts in Superstructure including providing drip mouldings and also including supplying, fitting and fixing approved type of materials complete as per drawing and Technical specification vide clause no. 2705 of MoRT&H's Specification for Road & Bridge Works.	No	18.00	783.00 Rupees Seven Hundred EightyThree Only	14,094.00
3.07	<b>Strip Seal Expansion Joint</b> Providing and laying of a strip seal expansion joint atering 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.	m	33.60	10000.00 Rupees Ten Thousand Only	336,000.00
3.08	Construction of precast RCC railing of M30 Grade, aggregate size not exceeding 12 mm, true to line and grade, tolerance of vertical RCC post not to exceed 1 in500, centre to centre spacing between vertical post not to exceed 2000 mm, leaving adequate space between vertical post for expansion, complete as per approved drawings and technical specifications.	m	156.00	1833.00 Rupees One Thousand Eight Hundred ThirtyThree Only	285,948.00
3.09	Providing and laying Cement concrete Wearing coat M-30 grade with graded stone chips 19mm down including screening and cleaning approved stone chips and sand as necessary laying, finishing complete to camber and grade, curing with water, including cost and carriage of all materials and hire charges for form work including reinforcement complete as per drawing and Technical Specifications vide clause no. 2702 of MoRT&H's Specification for Road & Bridge Works.	cum	25.03	9349.00 Rupees Nine Thousand Three Hundred FortyNine Only	234,005.47
<b>TOTAL COST FOR SUPER-STRUCTURE WORKS</b>					<b>5,498,010.32</b>

PRADHAN MANTRI GRAM SADAK Yojana (PMGSY)						
4. SCHEDULE OF QUANTITIES (SQQ) - APPROACH ROAD WORKS & TRAFFIC SIGNS AND OTHER ROAD						
District	Purb Burdwan					
Block	Monteswar					
Name of Work	Bridge on un-bridged gap over existing PMGSY road namely Majhergram to Gabrupur in Road of L040- Majhergram to Gabrupur via Pargam Under Monteswar Block					
Package	WB-22-BN-02					
#	id	Brief Description of Item	Unit	Quantity	Rate (Rs)	Amount (Rs)
4.01		Clearing and grubbing road land including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300 mm, removal of stumps of such trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, upto a lead of 1000 m including removal and disposal of top organic soil not exceeding 150 mm in thickness as per Technical Specification Clause 201. (I) By Mechanical Means (A) In area of non-thorny jungle	Hect	1.13	44878.00	Rupees FourtyFour Thousand Nine Hundred SeventyEight Only 50,825.14
4.02		Construction of Embankment with Material Obtained from Borrow Pits Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5 for Rural Roads of MORD. (Mode of measurement: pre works and post works)	Cum	8773.01	85.60	Rupees EightyFive Paise Sixty Only 750,969.66
4.03		Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300.2 as per Technical Specification Clause 303.1. (E) Lead from 750m to 1000m	Cum	3223.13	94.80	Rupees NinetyFour Paise Eighty Only 305,552.72
4.04		Construction of Sub Base using Local MaterialsConstruction of Sub Base using Local Materials, spreading in uniform layers with Motor grader on prepared surface, including screening the metal as necessary, mixing by mix in place method with Rotavator at OMC, and compacting with vibratory roller to achieve the desired density, lighting, guarding and barricading including cost and carriage of all materials and making necessary earthen bund of one metre wide on each side to protect the edges complete as per Clause 404 of Specifications for Road & Bridge Works of MoRT&I (5th Revision). Per Construction of Sub Base by compacting 1st class brick aggregates (40 mm down) and sand (in proportion of 66:40)	Cum	1209.38	1603.88	Rupees One Thousand Six Hundred Three Paise EightyEight Only 1,939,700.39
4.05		Water Bound Macadam Base Course Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding materials to fill up the interstices of coarse aggregate, watering including lighting, guarding, barricading and making necessary earthen bund of one metre width on each side and preparing the bed by necessary cutting or filling, including cost of all materials and hire and labour charges of all men and machinery and compacting to the required density, as per Clause 404 of Specifications for Road & Bridge Works of MoRT&I (5th Revision). (ii) Grading-I Aggregate (63 mm to 45 mm) Using Stone Screening Type B (11.2 mm)	Cum	489.38	2682.40	Rupees Two Thousand Six Hundred EightyTwo Paise Forty Only 1,312,712.91
4.06		Water Bound Macadam Base Course Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding materials to fill up the interstices of coarse aggregate, watering including lighting, guarding, barricading and making necessary earthen bund of one metre width on each side and preparing the bed by necessary cutting or filling, including cost of all materials and hire and labour charges of all men and machinery and compacting to the required density, as per Clause 404 of Specifications for Road & Bridge Works of MoRT&I (5th Revision). (iii) Grading-II Aggregate (53 mm to 22.4 mm) Using Stone Screening Type B (11.2 mm)	Cum	476.72	2707.52	Rupees Two Thousand Seven Hundred Seven Paise FiftySeven Only 1,290,762.77
4.07		Prime Coat Providing and applying primer coat with cationic Bitumen Emulsion of approved grade conforming to IS-8887-1978 and requisite quantity on prepared surface of granular base including cleaning of road surface and spraying primer using Mechanical means including cost and carriage of bitumen emulsion and all other incidental costs of work complete as per Clause 502 of Specifications for Road & Bridge Works of MoRT&I (5th Revision). (i) For WBM / WMM Surface (with primer @ 0.70-1.0 kg/sqm)	Sqm	6187.50	307.74	Rupees Three Hundred Seven Paise SeventyFour Only 1,904,141.25
4.08		Tack Coat Providing and applying tack coat with Cationic Bitumen Emulsion of approved grade conforming to IS- 8887-1978 on the prepared surface cleaned with Hydraulic broom, maintaining the surface including cost and carriage of emulsion, hire charges of machinery and labour, cost of fuel and lubricants all complete as per Clause 503 of Specifications for Road & Bridge Works of MoRT&I (5th Revision).	Sqm	6187.50	31.13	Rupees ThirtyOne Paise Thirteen Only 192,616.88
4.09		Open-Graded Premix Surfacing using Bituminous (Viscosity grade Paving Bitumen / Modified bitumen) Binder and Mobile Hot Mix Plant (Light Duty) Providing, laying and rolling of Open - graded premix surfacing of 20 mm thickness composed of 11.2 mm (Ø 0.018 m <sup>2</sup> per m <sup>2</sup> ) and 11.2 mm (Ø 0.009 m <sup>2</sup> per m <sup>2</sup> ) size stone aggregates, including thoroughly cleaning of the surface, screening, cleaning and pre-heating stone chips and fully pre-coating the same either using viscosity grade paving bitumen or cut-back or emulsion, carrying the mixture by any suitable arrangements, laying the mixture uniformly over the surface, including line, grade and level to serve as wearing course on a previously prepared base, including mixing in Mobile Hot Mix Plant (Light Duty) and thoroughly rolling with a smooth wheeled roller 6-10 tonne capacity, finished to required level and grades including the cost and carriage of stone chips and matrix, heating the matrix, preheating the aggregates to required temperature and including the hire charges of Mobile Hot Mix Plant (Light Duty) and other machinery, pay of operators, cost of fuel and lubricants etc. complete to be followed by seal coat of either Type A or Type B as per Technical Specification Clause 506 for Rural Roads of MORD.	Sqm	6187.50	10.46	Rupees Ten Paise FortySix Only 64,721.25
4.10		Providing and laying Premixed Seal Coat (Type B) with approved quality sand/grit @ 0.6 m <sup>3</sup> / 100 m <sup>2</sup> and bitumen binder on thoroughly cleaned black top surface coated with tack coat, including heating and mixing cleaned sand/grit (100 % passing through 2.36 mm sieve and retained on 300 micron sieve) uniformly with bitumen binder, laying and spreading the mix at an uniform rate using suitable means, brushing the surface, if necessary, to ensure uniformity, followed by rolling with power roller including the cost and carriage of binder and aggregates, cost of heating the binder and aggregates and all other incidental charges, cost of fuel and lubricants, including hire charges of machineries, tools & plants required for construction and quality control complete as per Clause 511 of Specifications for Road & Bridge Works of MoRT&I (5th Revision).	Sqm	6187.50	111.15	Rupees One Hundred Eleven Paise Fifteen Only 687,740.83
TOTAL COST FOR APPROACH ROAD WORKS						8,499,733.00

**Name of Work** *Bridge on un-bridged gap over existing PMGSY road namely Majhergram to Gabrupur in Road of L040- Majhergram to Gabrupur via Piagram Under Monteswar Block*

**Package** **WB-22-BRI-02**[illegible]

**Package**      **WB-22-BRI-02**

S. No.	Brief Description of Item	Unit	Quantity	Rate (Rs)		Amount (Rs)
5.01	Providing and laying Pitching on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and Technical specifications.	Cum	149.34	338.65	Rupees Three Hundred ThirtyEight Paise SixtyFive Only	50,573.99
5.02	Providing and laying Filter material underneath pitching in slopes complete as per drawing and Technical specification.	Cum	99.56	338.65	Rupees Three Hundred ThirtyEight Paise SixtyFive Only	33,715.99
5.03	Curtain wall complete as per drawing and Technical specification <b>Cement Concrete Grade M15 (Pakur Variety Stone)</b>	m	440.00	5317.82	Rupees Five Thousand Three Hundred Seventeen Paise EightyTwo Only	2,339,840.80
<b>TOTAL COST FOR RIVER TRAINING &amp; PROTECTION WORKS</b>						<b>2,424,130.78</b>



## 12. SCHEDULE OF QUANTITIES (SOQ) : 1st YEAR ROUTINE MAINTENANCE WORKS

**Package** WB-22-BRI-02

[illegible]

### 13. SCHEDULE OF QUANTITIES (SOQ) : 2nd YEAR ROUTINE MAINTENANCE WORKS

**Package** **WB-22-BRI-01**

[illegible]

#### 14. SCHEDULE OF QUANTITIES (SOQ) : 3rd YEAR ROUTINE MAINTENANCE WORKS

**Block**      **Monteswar**

**Name of Work** *Bridge on un-bridged gap over existing PMGSY road namely Majhergram to Gabrupur in Road of L040- Majhergram to Gabrupur via Piagram Under Monteswar Block*

**Package** WB-22-BRI-01

[illegible]

#### 15. SCHEDULE OF QUANTITIES (SOQ) : 4rt YEAR ROUTINE MAINTENANCE WORKS

**Package** WB-22-BRI-01

[illegible]

**16. SCHEDULE OF QUANTITIES (SOQ) : 5th YEAR ROUTINE MAINTENANCE WORKS**

**Package** WB-22-BRI-01

[illegible]