



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Bihar Rural Road Development Agency (BRRDA)

DETAILED PROJECT REPORT

MUKHYA MANTRI GRAM SAMPARK YOJNA

Estimate for Permanent Restoration

2020 - 2021

STATE :- BIHAR
DISTRICT :- Vaishali
BLOCK :- Jandaha



REVISED ESTIMATE FOR SAHPUR TO LAXMANPUR HAAT

TOTAL LENGTH OF ROAD	:- 5.130 Km
TOTAL COST OF CONSTRUCTION	:- Rs. 1.861 Lakhs
COST AS PER WORK DONE	:- Rs. 149.846 Lakhs
COST AS PER NOT WORK DONE	:- Rs. 3.073 Lakhs
5 YEAR MAINTENANCE COST	:- Rs. 12.756 Lakhs
TOTAL COST OF PROJECT	:- Rs. 167.536 Lakhs

SUBMITTED BY:
EXECUTIVE ENGINEER
RWD WORKS DIVISION, MAHNAR
VAISHALI

चेक-लिस्ट

1	संघिका संख्या :-	
2	शीर्ष :-	FDR
3	परमहंस का नाम :-	महजाल
4	पथ का नाम :-	Sahpur to Jorramampur road.
5	पथ की लम्बाई :-	5.130 Km.
6	परमहंस का नाम (पूर्व में जिसको स्वीकृति प्रदत्त है) :-	महजाल
7	परमहंस का नाम (जिनके द्वारा वर्तमान में कार्य किया जाना है)	महजाल
8	कार्य परमहंस का नाम :-	महजार
9	जिला का नाम :-	पैशाली
10	प्रशासनिक स्वीकृति की राशि :-	168.599 lakhs.
11	प्रशासनिक स्वीकृति का प्रसंग :-	मु 30-4(मु)-3054-04-266/2016 4877/मु 16/12/16
12	पूर्व में प्रदत्त तकनीकी स्वीकृति की राशि :-	16595632.00
13	तकनीकी स्वीकृति का प्रसंग :-	16595632.00
14	एकरास्तामा की राशि :-	14936069.00
15	संवेदक का नाम एवं निर्वाचन संख्या :-	Arvind Kumar. Agreement no-06/1000
16	एकरास्तामा के अनुसार कार्य प्रारंभ करने की तिथि :-	07/02/2018
17	एकरास्तामा के अनुसार कराये गये कार्य की राशि :-	134.86 lakhs.
18	वर्तमान में कार्य की स्थिति :-	सम्पन्न
19	क्या एकरास्तामा विखंडित किया गया है अथवा बंद किया गया है	नहीं
20	क्या एकरास्तामा विखंडित करने के फलस्वरूप अग्रधन एवं जमानत की राशि जप्त की गयी है	नहीं
21	कार्य को पूर्ण कराने में अग्रधन एवं जमानत की राशि कर जप्ती से अधिक लगने वाले राशि हेतु संबंधित संवेदक पर कार्यपालक अभियंता द्वारा दावा किया गया है	नहीं
22	एकरास्तामा विखंडित करने की स्थिति में क्या कार्यपालक अभियंता द्वारा संवेदक को जप्ती सूची में डालने का प्रस्ताव दिया गया है	नहीं
23	क्या पुनरीक्षित प्राकल्पन में किये गये प्राकल्पनों की अनुसंसा सख्य प्राधिकार (अधीक्षण अभियंता) के द्वारा स्थल निरीक्षण कर की गई है	हाँ
24	पुनरीक्षित प्राकल्पन की राशि :-	167.536 lakhs.
25	पुनरीक्षित प्राकल्पन एवं मूल प्राकल्पन की राशि में अंतर :-	1.861 lakhs.
26	पुनरीक्षित प्राकल्पन की राशि में वृद्धि (प्रतिशत में) :-	पूर्व प्रशासनिक स्वीकृति के अंतर्गत है
27	पुनरीक्षित प्रशासनिक स्वीकृति का कारण :-	FDR

7E

15/5/21

अग्रधन

कार्यपालक अभियंता का हस्ताक्षर

Mukhya Mantri Gram Sampark Yojna (MMGSY)

FORMAT F-5

GENERAL ABSTRACT OF COST

Block:--Jandaha

District:--Vaishali

Length of Road:-- 5.130 KM

Name of Road:-- Revised Estimate For Sahpur To Laxmanpur Haat

SL. No.	Item of Work	Amount
A	TOTAL COST OF FLOOD DAMAGE	₹ 1.861 Lakhs
B	COST AS PER WORK DONE	₹ 149.846 Lakhs
C	COST AS PER NOT WORK DONE	₹ 3.073 Lakhs
D	FIVE YEAR MAINTENANCE COST	₹ 12.756 Lakhs
TOTAL COST OF PROJECT		₹ 167.536 Lakhs


15/05/21

Junior Engineer


15/5/21

Asstt. Engineer


24/5/21

Executive Engineer


28/5/21
Superintending Engineer
Rural Works Department
Works Circle Muzaffarpur

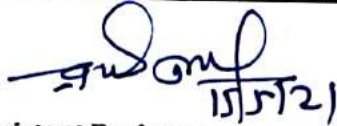
SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : Revised Estimate For Sahpur To Laxmanpur Haat
DISTRICT Vaishali
BLOCK Jandaha
LENGTH OF ROAD (in Km) 5.130
LENGTH OF BT PAVEMENT
LENGTH OF CC PAVEMENT
LENGTH OF NO WORK

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	PREPARATORY WORKS, SITE CLEARANCE, DISMANTLING	0.000
2	EARTHWORK	0.139
3	GSB	0.000
4	WBM GRADE II	0.000
5	WBM GRADE III	0.858
6	PRIME COAT	0.118
7	TACK COAT	0.042
8	PREMIX CARPET	0.540
9	SEAL COAT	0.164
10	CEMENT CONCRETE PAVEMENT	0.000
11	HARD SHOULDERING	0.000
12	SIDE DRAINS	0.000
13	PROTECTION WORKS / Boulder Pitching	0.000
14	ROAD FURNITURES, KM STONES, TRAFFIC & DIRECTION SIGN, PMGSY LOGO	0.000
	SUB TOTAL OF PAVEMENT COST IN LAKHS =	1.861
	Sub Total ₹ :-	1.861
	TOTAL COST OF PROJECT IN LAKHS =	1.861


15/05/24

Junior Engineer
RWD Works Division, Mahnar


15/05/24

Assistant Engineer
RWD Works Division, Mahnar


15/05/24
Executive Engineer
RWD Works Division, Mahnar

Volleyball

Indahnya

Block - Jandiala																		Remarks			
Sl No.	Item	Unit	As per BOQ / Agreement				Work already done			Work Not Done			Work To be Done After Damaged Due To Flood				Total		Variation in Amount		%
			Qty	Rate	Amount	7	8	9	10	11	12	13	14	15	16	17	18				
1	Clearing and Grubbing Road Land (by manual means) including spreading wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 30mm, removal of stumps of such trees and earlier & disposal of unserviceable materials & stacking of serviceable materials to be used or auctioned upto a lead of 100m including removal and disposal of top organic soil not exceeding 150mm in thickness as per technical specification clause 501 and direction of DT(Including Royalty & Labour Cost).	Sq	1,025	45,993.52	47,097.00	1,025	45,993.52	46,511.00	0.006	45,993.52	275.00	0.000	45,993.52	0.00	47,097.00	0.00		0%			
2	Construction of Embankment with material obtained from borrow pits with a lift upto 1.5 m , corresponding to the site spreading , grading to required slope and compacting to meet requirement of Table 3001 and 3002 with a lead upto 1000 m @ 100 m as per Technical Specification Clause 301.5 . Including Royalty & Labour Cost, Fee 1000 m Lead Cum	Cum	3,847.500	163.40	6,28,682.00	3,404.800	163.40	5,56,344.00	442.700	163.40	72,337.00	85.050	163.40	13,697.00	6,42,579.00	13,697.00		2%			
3	Granular Sub-base with Course Graded I Material :- Construction of granular sub-base by providing coarse graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at CMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401. (Including Royalty & Labour Cost)	Cum	322.650	1,922.47	6,20,285.00	321.890	1,922.47	6,18,924.00	0.760	1,922.47	1,461.00	0.000	1,922.47	0.00	6,30,395.00	0.00		0%			
4	M&M Grading 2 (By Manual Means) :- Providing laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller @300 KN in stages to proper grade and camber, applying and brooming, stone screening to fill-up the interstices of course aggregate, watering and compacting to the required density Grading 2 as per Technical Specification Clause 405. (including Royalty & Labour Cost)	Cum	135.250	3,501.26	5,43,571.00	134.890	3,501.26	5,42,310.00	0.360	3,501.26	1,260.00	0.000	3,501.26	0.00	5,43,571.00	0.00		0%			
5	M&M Grading 3 (By Manual Means) :- Providing laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller @300 KN in stages to proper grade and camber, applying and brooming, stone screening to fill-up the interstices of course aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405. (including Royalty & Labour Cost)	Cum	175.781	3,246.47	5,70,668.00	175.765	3,246.47	5,70,660.00	0.021	3,246.47	68.00	26.438	3,246.47	85,629.00	6,36,497.00	85,629.00		15%			
6	Providing and applying prime coat with Bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 ltr/sqm using mechanical means as per Technical Specification Clause 502.	Sqm	2,340.747	33.49	78,492.00	2,340.670	33.49	78,490.00	0.077	33.49	3.00	352.500	33.49	11,805.00	90,297.00	11,805.00		15%			
7	Providing and applying tack coat with bitumen emulsion (SB-1) using emulsion distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surfaces treated with primer & rolled with hydraulic trolam as per technical specification clause 503	Sqm	12,233.630	11.98	1,46,539.00	12,162.830	11.98	1,45,711.00	70.800	11.98	848.00	352.500	11.98	4,223.00	1,50,792.00	4,223.00		3%			
8	Providing laying and rolling of close-graded premix surfacing material of 20 mm thickness composed of 132 mm to 0.9 mm (Type-B) aggregates using penetration grade bitumen to required blue grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 6-10 kN static roller and finishing to required level and grades as per Technical Specification Clause 509.	Sqm	12,233.630	153.13	18,73,336.00	12,162.830	153.13	18,62,494.00	70.800	153.13	10,842.00	352.500	153.13	53,678.00	19,27,214.00	53,678.00		3%			
9	Providing laying seal coat sealing the voids in a bituminous surface laid to the specified levels, grades and cross fall using Type B as per the specification in clause 510 (With Bituminous Binder S-90)	Sqm	12,233.630	46.39	5,67,518.00	12,162.830	46.39	5,64,234.00	70.800	46.39	3,284.00	352.500	46.39	16,352.00	5,80,870.00	16,352.00		3%			

SI No.	Item	Unit	As Per BOC/Agreement				Work already done			Work Not Done			Work To be Done After Damaged Due To Flood			Total			Variance in Amount		
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	%
10	Construction of un-reinforced, plain cement concrete pavement, thickness as per design, over a prepared sub base, with 4:1 grade cement or any other type as per Clause 1501.2.2. M30 (Grade), coarse and fine aggregate conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete ratio of not less than 0.2 cum capacity and appropriate weight batcher using approved mix design. Laid in approved fixed side formwork, (steel channel), laying and fixing of 125 micron thick polythene film, weights, steel plates including levelling the formwork as per drawing, spreading the concrete with shovel, rakes, compressed using broods, screed and plate vibration and finished to continuous operation including provision of contraction and expansion, construction joints, applying debonding strips, primers, sealant, dowel bars, neat approaches to bridge/abutment and construction joints, admixtures as approved, curing of concrete slabs for 14-days using curing compound (where specified) and water finishing to lines and grade as per drawing and Technical Specification Clause 1501																				
11	Kilometers stone :- Reinforced cement concrete M15 grade Kilometer local stone of standard design as per IECG fixing in position including painting and printing, etc as per drawing and technical specification clause 1705.(Including Royalty & Labour Cost.) 1/5th km stone																				
12	400mm stone	Nos	2,000	4,063.31	8,127.00	0.000	4,063.31	0.00	2,000	4,063.31	8,127.00	0.000	4,063.31	0.00	0.00	0.00	8,127.00	0.00	4,063.31	0.00	0%
13	400mm stone	Nos	4,000	2,106.22	8,425.00	4,000	2,106.22	8,425.00	0.000	2,106.22	4,212.50	0.000	2,106.22	0.00	0.00	0.00	8,425.00	0.00	4,212.50	0.00	0%
14	400mm stone	Nos	20,000	575.70	11,514.00	20,000	575.70	11,514.00	0.000	575.70	11,514.00	0.000	575.70	0.00	0.00	0.00	11,514.00	0.00	575.70	0.00	0%
15	600 mm Circular	Nos	16,000	1,550.01	24,800.00	16,000	1,550.01	24,800.00	0.000	1,550.01	24,800.00	0.000	1,550.01	0.00	0.00	0.00	24,800.00	0.00	1,550.01	0.00	0%
16	600 mm x 600 mm rectangular, (School & Place)	Nos	2,000	1,614.31	3,229.00	2,000	1,614.31	3,229.00	0.000	1,614.31	3,229.00	0.000	1,614.31	0.00	0.00	0.00	3,229.00	0.00	1,614.31	0.00	0%
17	600 mm x 450 mm rectangular, (School & Place)	Nos	2,000	1,714.06	3,428.00	2,000	1,714.06	3,428.00	0.000	1,714.06	3,428.00	0.000	1,714.06	0.00	0.00	0.00	3,428.00	0.00	1,714.06	0.00	0%
18	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflective glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:53. The finished surface to be level, uniform and free from ruts and holes.	Nos	10,000	1,607.75	16,077.00	8,000	1,607.75	12,862.00	2,000	1,607.75	3,215.00	0.000	1,607.75	0.00	0.00	0.00	16,077.00	0.00	1,607.75	0.00	0%
19	(i) Providing and Fixing Logo of M.M.C.S.Y. Project :- Providing and Fixing of typical M.M.C.S.Y. Informative sign board with Logo as per MOCD specification and drawing. There M.S. Plates of 1.6 mm thick, top and middle plate duly welded with M.S. Flat iron 25mm x 5mm size on back on edges. The lower plate will be welded with M.S. angle iron frame of 25mm x 25mm x 5mm. The angle iron frame of the lower most plate and Flat iron frame of middle plate will be welded to 2 nos. 75mm x 75 mm x 12 SWG sheet tubes posts duly embedded in cement concrete M-15 grade blocks of 450mm x 450mm x 900mm below ground level. The top most diamond plate will be welded to middle plate by 47mm x 47mm of 12 SWG steel plate tube. All M.S. will be above enameled on both sides. Lettering and printing arrows, border etc. will be painted with ready mixed synthetic enamel paint of superior quality in required shade and colour. All sections of framed post and steel tube will be painted with primer and two coats of epoxy paint as per drawing Clause 1701 and Annexure 1700.(Including Royalty & Labour Cost).	Sqm	646.000	830.46	5,36,477.00	646.000	830.46	5,36,477.00	0.000	830.46	0.00	0.000	830.46	0.00	0.00	0.00	5,36,477.00	0.00	830.46	0.00	0%
		no	2,000	9,238.46	18,477.00	2,000	9,238.46	18,477.00	0.000	9,238.46	0.00	0.000	9,238.46	0.00	0.00	0.00	18,477.00	0.00	9,238.46	0.00	0%

Sl No.	Item	Unit	As Per BMD/ Agreement			Work already done			Work Not Done			Work To Be Done After Damaged Due To Flood			Total	Variation In Amount		Remarks
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount		Amount (9+13)	Difference in Amount (16-17)	
1		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
20	Earthwork in excavation for structures as per drawing and technical specifications Clause 30K.1 including setting out, construction of abutting and bracing, removal of slumps and other deteriorious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material.	Cum	37.960	241.68	9176.00	37.960	241.68	9176.00	0.000	241.68	0.00	0.000	241.68	0.00	9176.00	0.00	0%	
21	Sand Filling in Foundation Trenches as per drawing and technical specification Clause 110K.	Cum	7.594	411.64	3126.00	7.594	411.64	3126.00	0.000	411.64	0.00	0.000	411.64	0.00	3126.00	0.00	0%	
22	Providing and laying RCC pipe NP-3 for culverts on first class bedding of PCC M10 material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works,backfilling concrete and masonry works in head walls and parapets as per clause 110K	RM	112.500	787.60	88605.00	112.500	787.60	88605.00	0.000	787.60	0.00	0.000	787.60	0.00	88605.00	0.00	0%	
23	Rick masonry work in cement mortar 1:3 in parapet excluding pointing and plastering as per drawing and technical specifications Clause 600, 800 and 120K4	Cum	24.960	7049.04	175944.00	0.000	7049.04	0.00	24.960	7049.04	175944.00	0.000	7049.04	0.00	175944.00	0.00	0%	
24	Plastering with cement mortar (1:4) on brick work in sub-structure as per Technical Specifications	Sqm	174.080	170.42	29664.00	0.000	170.42	0.00	174.080	170.42	29664.00	0.000	170.42	0.00	29664.00	0.00	0%	
Total Construction of Cost					1,52,91,922.00			1,49,84,590.00			3,07,336.00			0.00	1,56,084.00	1,54,76,006.00	1.66%	
25	Maintenance for 1st year	Year	1.000	1,27,286.00	1,27,286.00	0.000	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.00	1,27,286.00	1,27,286.00	0%	
26	Maintenance for 2nd year	Year	1.000	1,68,986.00	1,68,986.00	0.000	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.00	1,68,986.00	1,68,986.00	0%	
27	Maintenance for 3rd year	Year	1.000	2,59,200.00	2,59,200.00	0.000	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.00	2,59,200.00	2,59,200.00	0%	
28	Maintenance for 4th year	Year	1.000	3,29,532.00	3,29,532.00	0.000	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.00	3,29,532.00	3,29,532.00	0%	
29	Maintenance for 5th year	Year	1.000	3,90,562.00	3,90,562.00	0.000	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.00	3,90,562.00	3,90,562.00	0%	
Total Maintenance of Cost					12,75,575.00			0.00			0.00			0.00	12,75,575.00	12,75,575.00	0%	
Total Cost of Project					1,65,67,497.00			1,49,84,590.00			3,07,336.00			0.00	1,56,084.00	1,67,53,361.00	1.66%	

Ues 10% as per agreement = Rs. 1,49,10,747.00 Rs. 1,34,86,131.00 Rs. 27,65,972.00

Rs. 15,07,828.00
Rs. 16,22,445.00
Rs. 16,67,476.00
Rs. 16,67,476.00

15/05/21
7E

Done
15/5/21

for
15/5/21

C/S

for

Supervision Engineer
Rural Works Department
Works Circle Muzaffarpur

work mat to
be done Rs. 27,65,972.00

Rs. 1,48,01,626.00

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प्रतिवेदन

पथ का नाम :- शाहपुर से लक्ष्मणपुर हॉट तक

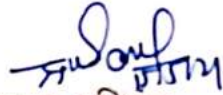
पथ की लम्बाई :- 5.130 कि०मी०

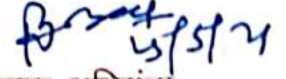
प्रस्तुत प्राक्कलन (151.015 लाख) वर्ष-2020 में आयी बाढ़ के कारण क्षतिग्रस्त पथ के पूर्व पुर्नस्थापन हेतु सचिव, ग्रामीण कार्य विभाग, बिहार, पटना के निदेश के आलोक में तैयार किया गया है। पथ का निर्माण MR (3054) योजना के अन्तर्गत लगभग 3.5 (साढ़े तीन) वर्ष पूर्व किया गया है, वर्तमान में यह पथ पंचवर्षीय अनुरक्षण अवधि में है। पथ की कुल लम्बाई 5.130 कि०मी० है। पथ में आवागमन सुविधापूर्वक सुचारु कराने के लिए (विभिन्न पथांश में) MBM-III एवं लगभग 0.105 कि०मी० में Primix Carpet का प्रावधान किया गया है। जिसका मापी प्राक्कलन में परिशिष्ट के रूप में संलग्न है। पथ का फोटोग्राफ एवं विवरणी MIS में प्रविष्टि की जा चुकी है।

इस पथांश के पूर्व पुर्नस्थापन से शाहपुर, नरहरपुर एवं लक्ष्मणपुर के लोगों को आवागमन में सुविधा होगी।

यह प्राक्कलन ग्रामीण कार्य विभाग के मार्ग दर्शिका के अनुरूप तैयार किया गया है, जिसमें तकनीकी परीक्षक कोषांग द्वारा निर्गत अद्यतन बेसिक दर को समर्पित किया गया है।


कनीय अभियंता


सहायक अभियंता


कार्यपालक अभियंता

यह पुर्नस्थापन का कार्य निरीक्षण अधीक्षक द्वारा किया
गया है जो प्रामाण्य के अनुरूप एवं संतोषजनक है।



Superintendent Engineer
Rural Works Department
Works Circle Muzaffarpur