

9th an A/c bill

Abstract agent

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
N/W:- Construction of H-L RCC Bridge in Chhagan Hathnager to Chhagan Baraha path over Hala under NABARD					
Agency:- Rajeev Kumar Hathnager (Vaidheli)					
Agreement - 44/SPD 2018-2019					
Appr value - RS 3,43,331.00					
revised contribution - 4,07,732.66.00					
work start - 01/01/2018					
date of completion - 01/01/2019					
1) Excavation in foundation					
Qty used: 482.70 m ³					
82.70 m ³ @ RS 280.00/m ³ = 23,156.00					
2) PCC in foundation					
Qty used: 35.94 m ³					
35.94 m ³ @ RS 5800.00/m ³ = 208,231.60					
3) HYSD bars in RCC work					
Qty used: 6.3864 m ²					
Waste covered - 0.3875 m ²					
6.7739 m ²					
@ RS 61432.46/m ² = 416,143.00					
4) RCC in sub structure					
Qty used: 70.10 m ³					
70.10 m ³ @ RS 765.34/m ³ = 53,704.20					

Continuation

Continuation

Continuation

Name of Work : HL Bridge On Chhajan Nathnagar to Chhajan Dardha Path

Sl. No.	Description of Items	Unit	BOQ QTY.	Revised QTY.	Difference QTY.	Increase %
1	Box Culvert					
	Earth work in excavation for foundation of structures upto 3.0 m depth as per drawing and technical specification clause 1104	Cum	241.350	482.70.	241.35	100%
2	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 PCC M-15 Grade	Cum	19.970	39.94	19.97	100%
3	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 PCC M-20 Grade	Cum	87.830	175.66	87.83	100%
4	Providing concrete for plain/reinforced concrete in open Substructure complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 PCC M-20 Grade	Cum	84.460	168.92	84.46	100%
5	Providing weepholes in brick masonry/stone masonry, plain/reinforced concrete abutment, wing wall, return wall with 100 mm dia AC pipe extending through the full width of the structures with slope of 1(V):20(H) towards drawing face complete as per drawing and technical specification Clauses 614, 709, 1204.3.7	Nos	88.000	176.00	88.00	100%
6	Plain/reinforced cement concrete in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 and 1204 RCC M-25 Grade	Cum	35.400	70.80	35.40	100%

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21/11/22

**Executive Engineer
RWD Works Division
Muzaffarpur East-1**

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21/11/22

बिहार सरकार
ग्रामीण कार्य विभाग

पत्रांक-मु0अ0-4(मु0)-नावार्ड-03-67/2017 -3627 (अनु०)

/पटना, दिनांक 27/8/19

प्रेषक,

प्रवीण कुमार ठाकुर,
अभियंता प्रमुख।

सेवामे,

मुख्य अभियंता-3
ग्रामीण कार्य विभाग
पटना, बिहार।

विषय-शीर्ष राज्य योजनान्तर्गत मुजफ्फरपुर जिलान्तर्गत कार्य प्रमंडल, मुजफ्फरपुर पूर्वी-1 के छाजन नाथ नगर से छाजन दरधा पथ में नाला पर उच्च स्तरीय पुल निर्माण कार्य के मद वृद्धि की स्वीकृति के संबंध में।

महाराज,

सपर्युक्त विषयक दिनांक 05.08.2019 को सपन्न विभागीय निवेदा समिति की कार्यवाही की छाया प्रति सलग्न कर आवश्यक अग्रेतर कार्रवाई हेतु प्रेषित की जाती है।

अनु० - यथोक्त।

विश्वासभाजन

(प्रवीण कुमार ठाकुर)

अभियंता प्रमुख

/पटना, दिनांक 27/8/19

ज्ञापक- मु0अ0-4(मु0)-नावार्ड-03-67/2017 -3627

प्रतिलिपि :- अधीक्षण अभियंता ग्रामीण कार्य विभाग, कार्य अवल मुजफ्फरपुर/कार्यपालक अभियंता ग्रामीण कार्य विभाग, कार्य प्रमंडल, मुजफ्फरपुर पूर्वी-1 को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

(प्रवीण कुमार ठाकुर)

अभियंता प्रमुख

को सम्पन्न ग्रामीण कार्य विभाग के द्वारा कार्यान्वित राज्य योजना से संबंधित योजनाओं के मदों में वृद्धि एवं अतिरिक्त मदों के प्रस्ताव पर विभागीय निवेदा समिति की बैठक की कार्यवाही।

- 1 श्री विनय कुमार, सचिव, ग्रामीण कार्य विभाग
- 2 गो० साहेल, अपर सचिव-सह-आन्तरिक वित्तीय सलाहकार
- 3 श्री प्रवीण कुमार ठाकुर अभियंता प्रमुख।

मु० अ०-4 (मु०) नाबार्ड-03-67/2017

राज्य योजना के अंतर्गत, ग्रामीण कार्य विभाग, कार्य प्रमंडल, मुजफ्फरपुर पूर्वी-1 के अंतर्गत छाजन नाथ नगर से छाजन दरधा पथ में नाला पर उच्च स्तरीय पुल निर्माण कार्य में मद वृद्धि का अनुमोदन प्रदान करने का प्रस्ताव है।

- 2 सचिका स०-
- 3 विषय एवं प्रस्ताव -

4 समिति द्वारा की गई समीक्षा-

(i) इस योजना के लिए मूल प्रशासनिक स्वीकृति विभागीय पत्रांक मु० अ०-4 (मु०) नाबार्ड-03-67/2017-5950 दिनांक 25.05.2017 द्वारा राशि 420.52 लाख रु० की लागत पर दी गयी थी।

(ii) इस संबंध में मुख्य अभियंता-3 से प्राप्त पुनरीक्षित प्राक्कलन के तुलनात्मक विवरणी से स्पष्ट है कि कुछ पुराने मदों में मद वृद्धि 20 प्रतिशत से अधिक हो रही है। पुनरीक्षित प्राक्कलन में सलग्न तुलनात्मक विवरणी में मदों की विवरणी अंकित है, जो इस कार्यवाही के साथ सलग्न है। पुनरीक्षित प्राक्कलन पर मु० अ०-3 द्वारा पुनरीक्षित तकनीकी अनुमोदन प्रदान किया गया है।

(iii) पथ निर्माण विभाग के अधिसूचना स०-2106 (S) दिनांक 07.03.2017 के अनुसार मदों में 20 प्रतिशत से अधिक वृद्धि होने अथवा नया मद जोड़े जाने पर विभागीय प्रधान सचिव/सचिव की अध्यक्षता में गठित विभागीय निवेदा समिति का अनुमोदन आवश्यक है।

(iv) वित्त विभाग के सकल्प स० 6439 दिनांक 28.08.2018 के अनुसार किसी भी स्वीकृत योजना के मूल प्राक्कलन में 20 प्रतिशत से कम या 20 प्रतिशत से अधिक वृद्धि होने की स्थिति में संबंधित योजना के पुनरीक्षित प्राक्कलन के लिए पुनः प्रशासनिक स्वीकृति की आवश्यकता नहीं होगी, किन्तु राशि का व्यय वित्तीय प्रावधानों का पालन कर किया जायेगा।

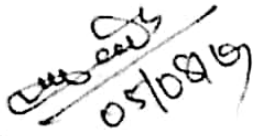
तदनुसार राज्य योजना के अंतर्गत ग्रामीण कार्य विभाग, कार्य प्रमंडल, मुजफ्फरपुर पूर्वी-1 के अंतर्गत छाजन नाथ नगर से छाजन दरधा पथ में नाला पर उच्च स्तरीय पुल निर्माण कार्य जिसकी मूल प्रशासनिक स्वीकृति विभागीय पत्रांक मु० अ०-4 (मु०) नाबार्ड-03-67/2017-5950 दिनांक 25.05.2017 द्वारा राशि 420.52 लाख रु० की लागत पर दी गयी थी, का पुनरीक्षित निर्माण लागत 416.63 लाख रु० है जो मूल प्रशासनिक स्वीकृति की राशि 420.52 लाख रु० से मात्र 0.93 प्रतिशत कम है। परन्तु कुछ मदों में 20 प्रतिशत से अधिक की वृद्धि हो रही है।

5 प्रस्ताव

तकनीकी प्रतिवेदन के अनुसार विषयगत पुल निर्माण कार्य के पहुँच पथ में एक अतिरिक्त Box Culvert का प्रावधान करने के कारण मद वृद्धि हो रही है। उपरोक्त कडिका 4 (ii) में उद्धृत मदों में हुई 20 प्रतिशत से अधिक की वृद्धि के आलोक में कडिका 4 (iii) में वर्णित अधिरूचना के अनुपालन में मदों में 20 प्रतिशत से अधिक वृद्धि होने अथवा नया मद जोड़े जाने पर विभागीय प्रधान सचिव/सचिव की अध्यक्षता में गठित विभागीय निविदा समिति का अनुमोदन प्राप्त किये जाने का प्रस्ताव है।

6 समिति द्वारा लिया गया निर्णय—

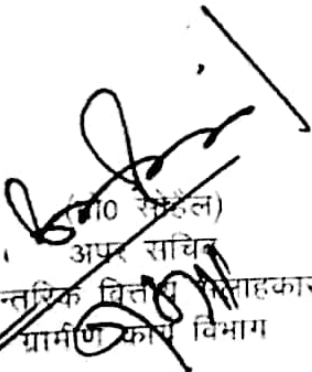
समीक्षोपरान्त कडिका- 5 में वर्णित प्रस्ताव पर अनुमोदन प्रदान किया जाता है।

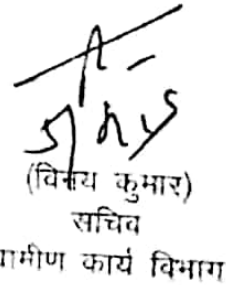

05/08/17

(कमलेश चौधरी)
मुख्य अभियंता-3
ग्रामीण कार्य विभाग



(प्रवीण कुमार ठाकुर)
अभियंता प्रमुख
ग्रामीण कार्य विभाग


(1010 सैमल)
अपर सचिव
आन्तरिक वित्त विभाग
ग्रामीण कार्य विभाग


(विनाय कुमार)
सचिव
ग्रामीण कार्य विभाग

Comparative statement									
कार्य प्रमंडल, मुजफ्फरपुर पूर्वी-1 के अधीन छाजन नाथ नगर से छाजन दरवा पथ में नाला पर खच्च स्तरीय पुल निर्माण कार्य									
SN No	Name of Work	Unit	As per BOQ			Work to be Done			Increase in %
			Qty	Rate	Amount (Rs)	Qty	Rate	Amount (Rs)	
1	2	3	4	5	6	7	8	9	10
1	Earthwork in excavation for Foundation of Structures up to 300 in depth as per drawing and Technical Specifications clause 1104	Cum	241.45	280.02	67583	487.30	280.02	135166	100.00
2	Providing Concrete for plain Reinforced Concrete in open foundations Complete PCC M-15 Grade	Cum	19.07	5800.26	115831	399400	5800.26	231562	100.00
3	Providing Concrete for plain Reinforced Concrete in open foundations Complete PCC M-20 Grade	Cum	87.83	6300.45	550935	175.600	6500.45	1141869	100.00
4	Providing Concrete for plain/Reinforced Concrete in open sub Structure complete PCC M-20 Grade	Cum	64.460	6740.51	433610	168.92	6740.51	1139620	100.00
5	Providing Weepholes in Brick Masonry/Stone 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 1:20	Nos	88.000	133.96	11788	126.500	133.96	16877	100.00
6	Plain/Reinforced Cement Concrete in Sub Structure Complete As per Drawing & Technical Specification RCC M-25 Grade	Cum	35.40	7585.34	268511	70.80	7585.34	537042	100.00
7	Supling Fitting and Placing HYSD bar Reinforcement Fe 415 in Sub Structure complete	Mt	3387	61472.48	208072	6.77	61472.48	415898	100.00
8	Backfilling Behind abutment Wing Wall and return Wall Complete As per Drawing & Technical Specification Clause 1204 7-8 With Sandy Materials	Cum	104.140	605.41	63168	208.68	605.41	126357.6	100.00
9	Providing and laying filter media with granular crushed aggregates as per specification to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and providing over the entire surface behind abutment wing wall return wall to the height compacted to firm condition complete as per drawing and technical specification Clause 1204 7-8	cum	57.200	2831.67	162226	114.580	2831.67	324451	100.00
10	Providing and laying reinforced cement concrete in Superstructure as per drawing and technical Specification RCC M-25 Grade	cum	45.780	8018.12	366920	31.560	8018.12	253082	100.00
11	Supling Fitting and Placing HYSD bar Reinforcement Fe 415 in Super Structure complete	Mt	1340	62526.17	83785	2.48	62526.12	155070	100.00
12	Construction of RCC Railing of M-25 Grade in Case in C-2 With 20 mm nominal Size aggregate	RM	42.000	7509.98	315420	24.00	7509.98	180240	100.00
13	Drainage Spouts Complete as per Drawing and Technical Specifications Clause 1209	Nos	4.000	549.56	2198	8.00	549.56	4396	100.00

योजना का नाम:- छाजन नाथनगर से छाजन दरधा पथ में नाला पर उच्च स्तरीय आरसीसी पुल निर्माण

प्रखंड :- कुढ़नी

शीर्ष :- राज्य योजना (नाबार्ड)

प्रशासनिक स्वीकृति की राशि :- 420.52 लाख

तकनीकी स्वीकृति की राशि :- 393.70 लाख

एकरारनामा की राशि :- 354.33316 लाख

पुनरीक्षित प्राक्कलन की राशि :- 416.62916 लाख

उपरोक्त योजना शीर्ष राज्य योजना (नाबार्ड) अन्तर्गत स्वीकृत है। छाजन नाथ नगर से छाजन दरधा पथ में नाला पर 2 x 18.75m आकार का उच्च स्तरीय आरसीसी पुल निर्माण के साथ-साथ उसी पथ में 1 x 5.0m x 3.5m आकार का Box Culvert निर्माण का प्रावधान किया गया था। पुल निर्माण के क्रम में ग्रामीणों द्वारा यह मांग किया गया कि इस पथ में 1 x 5.0m x 3.5m आकार के एक और Box Culvert के निर्माण की आवश्यकता है। उसी आलोक में विभागीय सचिव महोदय द्वारा मौखिक निर्देश दिया गया कि उस पथ में 1 x 5.0m x 3.5m आकार के एक और Box Culvert निर्माण हेतु प्राक्कलन को पुनरीक्षित किया जाये। सचिव महोदय के उक्त आदेश के आलोक में 1 x 5.0m x 3.5m आकार का एक और Box Culvert (कुल 2 Nos. Box Culvert) निर्माण हेतु यह पुनरीक्षित प्राक्कलन तैयार किया गया है।

इस कार्य का पुनरीक्षित प्राक्कलन की राशि 416.62916 लाख है, जो एकरारनामा के अनुसार 10% कम करने पर 374.96624 लाख होता है। चूंकि यह राशि प्रशासनिक स्वीकृति के अधीन है परंतु प्राक्कलन के मद संख्या 45 से 57 में 100% की वृद्धि हुई है अतः इसकी स्वीकृति की आवश्यकता है।

अतः अनुरोध है कि इसके मदों की स्वीकृति देने की कृपा की जाये।

25.03.19
कनीय अभियंता
कुढ़नी

सहायक अभियंता
कुढ़नी

कार्यपालक अभियंता
ग्रामीण कार्य विभाग, कार्य प्रमंडल
मुजफ्फरपुर पूर्व-1

COMPERATIVE STATEMENT

Name of Road :- HL RCC Bridge in Chhajan Nathnagar to Chhajan Dardha Path over Nala

District :- Muzaffarpur
Block :- Kudhanti

Sl. No.	Item of Work	Unit	As Per BOQ			Work to be Done			% Increase
			Qty. as per BOQ	Rate	Amount (Rs)	Qty	Rate	Amount (Rs)	
1	2	3	4		5	10	11	12	13
1	FOUNDATION								
1	Excavation for Structures Earthwork in excavation for structures as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material. i) Upto 3m depth	Cum	611.550	280.01	171240.00	611.550	280.01	171240.00	
2	Providing and laying of PCC M15 levelling course 100mm thick below the pile cap. II. PCC Grade M-15 (Levelling Course for Pile Cap)	Cum	27.710	6,358.51	176194.00	27.710	6,358.51	176194.00	
3	R.C.C. grade M 30 in Pile Foundation complete as per Dwg & Tech Specification. Pile Cap in RCC M-30 (Using Batching Plant, Transit Mixer and Concrete Pump)	Cum	305.690	8,060.32	2463959.00	305.690	8,060.32	2463959.00	
4	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. II. 1200 mm Dia (Using Batching Plant, Transit Mixer and Concrete Pump)	m	452.000	17663.26	7983794.00	452.000	17663.26	7983794.00	
5	Supplying, fitting and placing <u>HYSD</u> bar reinforcement in foundation complete as per drawings and technical specifications Clauses 1000 and 1202	MT	70.387	63,300.56	4455537.00	70.387	63,300.56	4455537.00	
6	Providing steel liner 10 mm thick for curbs and 6mm thick for steining of wells including fabricating and setting out as per detailed drawing	MT	2.560	92,787.15	237535.00	2.560	92,787.15	237535.00	
7	Providing and Constructing Temporary Earth Island (Assuming depth of water 1.0 m and height of island to be 1.25 m including Royalty for earth @ Rs. 5526.00 for each Island.)	No.	1.000	48,332.80	48333.00	1.000	48,332.80	48333.00	

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Sl. No.	Item of Work	Unit	As Per BOQ			Work to be Done			% Increase
			Qty as per BOQ	Rate	Amount (Rs)	Qty	Rate	Amount (Rs)	
1	2	3	4	5	10	11	12	13	
8	Carrying out load test on any pile as per standard procedure laid down in the IS:2911 specification including construction of test cap, dismantling the cap after test and cleaning the site and maintaining complete records of load								
	a) Initial Load Test on test pile for 2.5 times the design load specified in Drawings 1.2 m Dia Pile	Nos.	1.00	#####	100000.00	1.00	100,000.00	100000.00	
	b) Routine pile load test on pile for 1.5 times the design load specified in Drawings 1.2 m Dia Pile (2% of piles in total).	Nos.	1.00	#####	100000.00	1.00	100,000.00	100000.00	
	c) Horizontal pile load test on pile for 1.5 times the design load specified in Drawings 1.2 m Dia Pile (2% of piles in total) .	Nos.	1.00	75,000.00	75000.00	1.00	75,000.00	75000.00	
	SUBSTRUCTURE								
9	R.C.C. grade M-30 in Substructure complete as per Dwg & Tech Specification RCC M-30 (Using Batching Plant, Transit Mixer and Concrete Pump)	Cum	153.960	8,406.04	1294194.00	153.960	8,406.04	1294194.00	
10	ii) From 5m upto 10m height (Using Batching Plant, Transit Mixer and Concrete Pump)	Cum	83.810	8,507.56	713019.00	83.810	8,507.56	713019.00	
11	R.C.C. grade M-35 in Substructure complete as per Dwg & Tech Specification RCC M-35 (Using Batching Plant, Transit Mixer and Concrete Pump)	Cum	9.140	8,639.54	78965.00	9.140	8,639.54	78965.00	
12	Supplying, fitting and placing HYSD bar reinforcement (Fe 415) in substructure complete as per drawings and technical specification Clauses 1002, 1005, 1010 & 1202	MT	27.623	63,447.18	1752601.00	27.623	63,447.18	1752601.00	
13	Supplying, fitting and fixing in position true to line and level POT PTFE bearing consisting of a metal piston supported by a disc or unreinforced elastomer confined within a metal cylinder, sealing rings, dust seals, PTFE surface sliding against stainless steel mating surface, complete assembly to be of cast steel/fabricated structural steel, metal and elastomer elements to be as per IRC: 83 part-I & II respectively and other parts conforming to BS: 5400, section 9.1 & 9.2 and clause 2006 of MoRTH Specifications complete as per drawing and approved technical specifications.	Nos	12	49,287.38	591449.00	12	49,287.38	591449.00	

Sl. No.	Item of Work	Unit	Qty as per BOQ	Rate	Amount (Rs)	Qty	Rate	Amount (Rs)	% Increase
1	2	3	4		5	10	11	12	13
14	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.	cc	131,475	0.88	115698.00	131,475	0.88	115698.00	
15	Providing weepholes in brick masonry/stone masonry, plain/reinforced concrete abutment, wing wall, return wall with 100 mm dia AC pipe extending through the full width of the structures with slope of 1(V):20(H) towards drawing face complete as per drawing and technical specification Clauses 614, 709, 1204.3.7	Nos	180	133.38	24008.00	180	133.38	24008.00	
16	Backfilling behind abutment, wing wall and return wall complete as per drawings & technical specification Clause 1204.3.8 I) Sandy Material	Cum	253.860	605.43	153694.00	253.860	605.43	153694.00	
17	Providing and laying filter media with granular crushed aggregates (Jhama Metal) as per specification to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and providing over the entire surface behind abutment, wing wall, return wall to the full height, compacted to firm condition complete as per drawing and technical specification Clause 1204.3.8	Cum	127.100	2831.67	359905.00	127.100	2831.67	359905.00	
18	SUPERSTRUCTURE Providing and laying reinforced cement concrete in superstructure complete as per drawing and technical specifications Clauses 800, 1205.4 and 1205.5 II. RCC M-30 (Using Batching Plant, Transit Mixer and Concrete Pump)	Cum	177.140	9,481.31	1679519.00	177.140	9,481.31	1679519.00	
19	Supplying, fitting and placing HYSD bar reinforcement (Fe 415) in superstructure complete as per drawings and technical specification Clauses 1002, 1010 & 1202	MT	24.160	64,540.87	1559307.00	24.160	64,540.87	1559307.00	
20	Providing and laying cement concrete wearing course M 30 grade including reinforcement complete as per drawing and technical specifications Clauses 800 and 1206.3	Cum	27.260	15,010.70	409192.00	27.260	15,010.70	409192.00	

Sl. No.	Item of Work	Unit	As per BOQ			As per Bill			% Inc/Dec		
			Qty. as per BOQ	Ratio	Amount (Rs)	Qty	Ratio	Amount (Rs)			
1	2	3	4		5	10	11	12			13
21	Construction of R.C.C. railing of M 25 grade in cast-in-situ with 20 mm nominal size aggregate, true to line and grade, tolerance of vertical railing post not to exceed 1 in 500, centre-to-centre spacing between vertical posts not to exceed 2000 mm as per drawing and technical specifications Clauses 800, 900 and 1208.3	m	96.920	3597.59	348678.00	96.920	3597.59	348678.00			
22	Drainage Spouts complete as per drawing and technical specifications Clause 1209	No	16	549.54	8793.00	16	549.54	8793.00			
23	P.C.C. M-15 ordinary grade (1:2.5:5) levelling course below approach slab complete as per drawing and technical specifications Clauses 800 & 1211.	cum	8.870	5839.99	51801.00	8.870	5839.99	51801.00			
24	Reinforced Cement Concrete M-30 grade approach slab including reinforcement and formwork complete as per drawing and technical specifications Clauses 800 and 1211	cum	20.530	11806.52	242388.00	20.530	11806.52	242388.00			
25	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.)	m	25.350	12029.56	304949.00	25.350	12029.56	304949.00			
26	Providing & fixing 20 mm thick compressible fibre board in expansion joint complete as per drawing & Technical Specification.	m	25.350	293.08	7430.00	25.350	293.08	7430.00			
27	Providing and fixing in position 20 mm thick premoulded joint filler in expansion joint for fixed ends of simply supported spans not exceeding 10 m to cater for a horizontal movement upto 20 mm, covered with sealant complete as per drawing and technical specifications.	m	25.350	411.82	10440.00	25.350	411.82	10440.00			
PROTECTION WORK											
28	Providing and laying boulder pitching on slopes laid over prepared filter media as per drawing and technical specifications Clause 1302	cum	372.280	2671.92	994702.00	372.280	2671.92	994702.00			
29	Providing and laying filter material underneath pitching in slopes complete as per drawing and technical specifications Clause 1302	cum	141.040	3188.19	449662.00	141.040	3188.19	449662.00			
APPROACH ROAD											

23

Sl. No.	Item of Work	Unit	As Per BOQ				Work to be Done				% Increase
			Qty. as per BOQ	Rate	Amount (Rs)	Qty	Rate	Amount (Rs)			
1	2	3	4		5	10	11	12		13	
30	Setting Out Pillars :- Providing & Fixing of Working benchmark Pillars 01 nos. per km & 04 Nos. of reference pillars required for 1 Km. as per drawings given and direction of E/I	Km	2	29741.96	59484.00	2	29741.96	59484.00			
31	Cleaning and Grubbing Road Land Cleaning and Grubbing Road Land (By manual means) including uprooting wild vegetation , grass bushes ,shrubs , saplings and trees of girth upto 300mm , removals of stumps of such trees cut earlier & disposal of unserviceable materials & stacking of serviceable materials to be used or auctioned upto a lead of 1000 m including removal and disposal of top organic soil not exceeding 150mm in thickness as per technical specification - clause 201.1 and direction of E/I (By Manual Means) In area of non-thorny jungle	Hect.	1.40	48744.04	68242.00	1.40	48744.04	68242.00			
32	Box Cutting :- Excavation for roadway in soil using manual means for carrying of cut earth to embankment site with a lift upto 1.5 m and lead upto 50 m as per Technical Specification Clause 302.3	Cum	141.75	72.56	10285.00	141.75	72.56	10285.00			
33	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	Cum	8577.00	146.35	1255244.00	8577.00	146.35	1255244.00			
34	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 with lead upto 1000 m & 100 m as per Technical Specification Clause 303.1. (Including Royalty & Labour Cess).	Cum	2883.82	148.45	428103.00	2883.82	148.45	428103.00			

Sl. No.	Item of Work	Unit	As Per BOQ				Actual to be done			
			Qty. as per BOQ	Rate	Amount (Rs)	Qty	Rate	Amount (Rs)	% Increase	
1	2	3	4		5	10	11	12	13	
35	Granular Sub-base with Well Graded Material (Table 400.1) : Course Sand Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401. (For Grading I Material)	Cum	1279.8	2573.8	3293949.00	1279.8	2573.8	3293949.00		
36	WBM Grading 3 :- 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 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405.	Cum	573.75	3240.99	1859518.00	573.75	3240.99	1859518.00		
37	Prime Coat (Low Porosity) :- Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0kg/sqm using mechanical means as per Technical Specification Clause 502	Sqm	7650.00	46.17	353201.00	7650.00	46.17	353201.00		
38	Tack Coat:- Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25-0.30kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per Technical Specification Clause 503.	Sqm	7650.00	15.20	116280.00	7650.00	15.20	116280.00		
39	Mix Seal Surfacing (Type B) Providing, laying and rolling of close-graded premix surfacing material of 20 mm thickness composed of 11.2 mm to 0.9 mm (Type-A) or 13.2 mm to 0.9 mm (Type-B) aggregates using penetration grade bitumen to required line, 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 8-10 kN static roller and finishing to required level and grades as per Technical Specification Clause 509 Type B	Sqm	7650	194.11	1484942.00	7650	194.11	1484942.00		

Sl. No.	Item of Work	Unit	As Per BOQ			Work to be Done			% Increase
			Qty. as per BOQ	Rate	Amount (Rs)	Qty	Rate	Amount (Rs)	
1	2	3	4		5	10	11	12	13
40	TRAFFIC SIGNS, MARKINGS & OTHER ROAD APPURTENANCES Kilometre Stone Reinforced cement concrete M15 grade kilometre stone/local stone of standard design as per IRC:8 fixing in position including painting and printing, etc as per drawing and Technical Specification Clause 1703 Ordinary Kilometer Stone (Precast)	Each	3	2356.61	7070.00	3	2356.61	7070.00	
41	200 m stone (precast)	Each	8	642.46	5140.00	8	642.46	5140.00	
42	(i) Providing and Fixing 'Logo' of MMGSY Project :- Providing and fixing of typical MMGSY informatory sign board with Logo as per MORD specifications and drawing. Three MS Plates of 1.6 mm thick, top and middle plate duly welded with MS flat iron 25mm x 5mm size on back on edges. The lower plate will be welded with MS 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 of 12 SWG sheet tubes posts duly embedded in cement concrete M-15 grade blocks of 450mm x 450mm x 600mm, 600mm 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 stove 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 posts and steel tube will be painted with primer and two coats of epoxy paint as per drawing Clause 1701 and Annexure 1700.1	Each	2	8046.56	16093.00	2	8046.56	16093.00	
43	Retro-reflectorised Traffic Signs :- Providing and fixing of retro-reflectorised cautionary, mandatory and informatory sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3 fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per drawings and Technical Specification Clause 801	Each	5	1661.37	8307.00	5	1661.37	8307.00	
	600 mm equilateral & triangle	Each	5	1661.37	8307.00	5	1661.37	8307.00	

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Sl. No.	Item of Work	Unit	As Per BOQ			Work to be Done			% Increase
			Qty. as per BOQ	Rate	Amount (Rs)	Qty	Rate	Amount (Rs)	
1	2 800 mm x 600 mm rectangular 600 mm x 450 mm rectangular	3 Each Each	4 3 3		5 5367.00 5119.00	10 3 3	11 1788.97 1706.27	12 5367.00 5119.00	13
44	Road Marking with Hot Applied Thermoplastic Compound with Reflecting 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	400	626.02	250408.00	400	626.02	250408.00	
45	Box Culvert Earth work in excavation for foundation of structures upto 3.0 m depth as per drawing and technical specification clause 1104	Cum	241.350	280.02	67583.00	482.70	280.02	135166.00	300%
46	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 PCC M-15 Grade	Cum	19.970	5800.26	115831.00	39.94	5800.26	231662.00	300%
47	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 PCC M-20 Grade	Cum	87.830	6500.45	570935.00	175.66	6500.45	1141869.00	300%
48	Providing concrete for plain/reinforced concrete in open Substructure complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 PCC M-20 Grade	Cum	84.460	6746.51	569810.00	168.92	6746.51	1139620.00	300%
49	Providing weepholes in brick masonry/stone masonry, plain/reinforced concrete abutment, wing wall, return wall with 100 mm dia AC pipe extending through the full width of the structures with slope of 1(V):20(H) towards drawing face complete as per drawing and technical specification Clauses 614, 709, 1204.3.7	Nos	88.000	133.96	11788.00	176.00	133.96	23577.00	300%
50	Plain/reinforced cement concrete in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 and 1204 RCC M-25 Grade	Cum	35.400	7585.34	268521.00	70.80	7585.34	537042.00	300%
51	Supplying, fitting and placing HYSD bar reinforcement (Fe 415) in substructure complete as per drawings and technical specification Clauses 1002, 1005, 1010 & 1202	MT	3.387	61432.48	208072.00	6.77	61432.48	416144.00	300%

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Sl. No.	Item of Work	Unit	AS PER BUQ			WORK TO BE DONE			
			Qty. as per BOQ	Rate	Amount (Rs)	Qty	Rate	Amount (Rs)	
1	2	3	4		5	10	12	13	
52	Backfilling behind abutment, wing wall and return wall complete as per drawings & technical specification Clause 1204.3.8 (With Sandy Materials)	Cum	104.340	605.41	63168.00	208.68	605.41	126337.00	100%
53	Providing and laying filter media with granular crushed aggregates as per specification to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and providing over the entire surface behind abutment, wing wall, return wall to the full height, compacted to firm condition complete as per drawing and technical specification Clause 1204.3.8	Cum	57.290	2831.67	162226.00	114.58	2831.57	324453.00	100%
54	Providing and laying reinforced cement concrete in superstructure as per drawing and technical specifications Clauses 800, 1205.4 and 1205.5 RCC M-25 Grade	Cum	15.780	8018.12	126526.00	31.56	2012.12	25352.00	100%
55	Supplying, fitting, and placing HYSD bar reinforcement in superstructure complete as per drawing and technical specifications Clauses 1002, 1010 and 1202	MT	1.340	62526.17	83785.00	2.68	62525.17	157573.00	100%
56	Construction of R.C.C. railing of M 25 grade in cast-in-situ with 20 mm nominal size aggregate, true to line and grade, tolerance of vertical railing post not to exceed 1 in 500, centre-to-centre spacing between vertical posts not to exceed 2000 mm as per drawing and technical specifications Clauses 800, 900 and 1208.3	RM	12.000	3509.98	42120.00	24.00	3509.98	84242.00	100%
57	Drainage spouts complete as per drawing and technical specifications Clause 1209	Nos	4.000	549.56	2198.00	8.00	549.56	4396.00	100%
58	Total Cost for 1st Year Maintenance Work	Year	1	95837.00	95837.00	1	95837.00	95837.00	
59	Total Cost for 2nd Year Maintenance Works	Year	1	146012.00	146012.00	1	145012.00	145012.00	
60	Total Cost for 3rd Year Maintenance Works	Year	1	180242.00	180242.00	1	180242.00	180242.00	
61	Total Cost for 4th Year Maintenance Works	Year	1	214372.00	214372.00	1	214372.00	214372.00	
62	Total Cost for 5th Year Maintenance Works	Year	1	248587.00	248587.00	1	248587.00	248587.00	
	Total				39370351.00			41662916.00	
	Total Amount of Revised Estimate					41662916.00			
	Amount After Deduction of 10% as per Agreement					37496624.00			

8/11/19
J.E.

07/11/19
A.E.

07/11/19
E.E.

07/11/19
E.E.

भारतीय गैर न्यायिक न्यायालय
D.A Bridge length - 38.64 M, Amount Rs 420.52 Lacs
Vide letter - No 5930
Date - 25-5-17

Revised T.A. Amount Rs

C. Cost - Rs 407.74

M. Cost - Rs 8.89

416.63 Lacs

Revised Technical Approval of Bridge Size 38.64 M is accorded.

(A) Construction Work Rs. 407.74 Lacs

(B) Maintenance Work Rs. 8.89 Lacs

(C) Contingency Amount Rs. — Lacs

Total Rs. 416.63 Lacs

(Rupees) Four Crore Sixteen Lacs Sixty Three only.

~~25-6-17~~
A.E.
RWD

~~25-6-17~~
E.E.
RWD

~~25-6-17~~
C.E.-3
RWD, PATNA