

COND. OF H.L BRIDGE IN CHACHRAHA TO MADHINA 2/2
ROAD OVER BACHHRAJA RIVER

Schedule XLV-Form No. 134

JAYNAGAR

कार्यालय अधिपति
आर्कोर
आर्कोर

DIVISION

BASOPATI

SUB-DIVISION

1013

MEASUREMENT BOOK

M/s. Sanjay Construction Co.

4th + Final Bill

59

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work— Construction H.L. Bridge in Chackra to Madhya road over Bachhara River under NABARD (Bridge)					
Agency: M/s. Sanjay Construction & Co. Rajahmundry, Madhya Pradesh (Private) Patna - 83					
Agreement no.— 40380/2019-20 NABARD (Private)					
Date of commencement— 11 Feb. 2020					
Date of completion— 10 Feb. 2021					
Date of actual completion—					
Rate— 10% Below					

(1) 1/1 cleaning and Graveling Road land — do — do —
 — all complete Job.
 $2 \times 330 \times 2.00 = 1440 \text{ m}^2$
 $1440 \text{ m}^2 / 10000 = 0.144 \text{ Hec}$

(2) 1/6 Construction of subgrade and earthen shoulders with — do — do —
 — all complete Job.
 $2 \times 330 \times (3.00 + 3.00) \times 0.30 = 418.50$
 Adj. to 6000 $2 \times 330 \times 1.65 \times 0.200 = 59.40$
 Adj. to 4000 $2 \times 330 \times 1.55 \times 0.075 = 20.93$
 Check by me 498.83 m²

Continuation

Sch. XLV--Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
13/7	Granular sub base with well graded materials - - do - -				
	do - - - all complete Job.				
	$2 \times 30 \times (7.5 + 4.20 + 1.05) \times 0.20 = 65.00$				
	$4 \times 30 \times 1.05 \times 0.00 = 97.20$				
					162.20 m ³
14/8	WBM-III. Providing, laying, spreading and compacting - -				
	do - - - all complete Job.				
	$2 \times 20.00 \times (7.00 + 4.20 + 3.75) \times 0.075 = 22.43$				
	$4 \times 30 \times 3.75 \times 0.075 = 33.75$				
					56.18 m ³
15/9	Prime coat: - Providing and applying prime coat - - do - -				
	do - - - all complete Job.				
	$2 \times 30 \times (7.00 + 4.20 + 3.75) \times 0.075 = 299.00$				
	$4 \times 30 \times 3.75 \times 0.075 = 450.00$				
					749.00 m ²
16/10	Tack coat: Providing and applying tack coat with - - do - -				
	do - - - all complete Job				
	Qty same as item no-15				
					749.00 m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(21)/11	mix seal surfacing: Providing laying and rolling — do — — do — all complete Job. Qty same as item no. 5. = 749.00 m ²				
(21)/12	Road marking with hot applied thermoelastic — do — do — — all complete Job. $2 \times 2 \times 90.00 \times 0.100$ = 36.00 m ²				
(21)/13	Retro-reflectors Traffic sign: providing and fixing of retro- reflectors — do — — do — all complete Job. 2.00 nos. = 2.00 nos.				
(12)/14	Providing and fixing logo of NABARD project — do — — do — all complete Job. 1.00 no. = 1.00 no.				
(12)/15	Providing and fixing logo of citizen information — — do — do — all complete Job. 1.00 no. = 1.00 no.				

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(12)/27	Backfilling behind abutment wing wall and return wall				
	do	do	do	do	
	complete job.				
Behind Abut.	2x	6.30x	1.55x	4.15 =	81.05
Behind L.R. Wall	2x	4.00x	6.00x	4.15 =	199.20
					280.25m ³
(13)/28	Providing and laying filter media with granular				
	do	do	do	do	
	all complete job.				
Behind Abut.	2x	7.50x	0.60x	4.15 =	37.35
Behind R. Abut.	5x2	1.55x	0.60x	4.15 =	15.44
					52.79m ³
(14)/34	PCC M-15 ordinary grade leveling course below approach slab				
	do	do	do	do	
	all complete job.				
	2x	3.85x	7.50x	0.150 =	7.54m ³
(15)/35	Reinforced cement concrete M-25 grade approach slab including reinforcement and formwork				
	do	do	do	do	
	all complete job.				
	2x	3.80x	7.50x	0.30 =	15.75m ³

Continuation

Particulars	Details of actual measurement				Quantity of work
	No.	L.	B.	D.	
(167)/37	Painting of parapet walls				
	powering and applying				
	do	do	do	do	all
	complete job				
	$2 \times 57.50 \times 1.10 = 126.50 \text{ m}^2$				
(17)/38	Powering and laying handker				
	pitching on slopes level				do
	do	do	do	do	all complete job
Behind Abut	4	3.50	2.20	0.30	9.24
Embank slope	4	15.00	4.50	0.30	81.00
					90.24 m ³
(18)/39	Powering and laying filter				
	material underneath pitching				
	in slopes				do
	all complete job				
Behind Abut	4	3.50	2.20	0.15	4.62
Embank slope	4	15.00	4.50	0.15	40.15
					44.77 m ³
(19)/4	Construction of embankment with				
	approved material				do
	do	do	do	do	all complete job
	60% of excavated material				
	$60\% \times (579.497 + 116.49)$				
	$60\% \times 695.987 = 417.592 \text{ m}^3$				

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(90)/5	construction of Embankment				
	with material obtained —				
	— do — do — all				
	complete job				

Earth Canals

HL Bridge in channel to
Madhya over Barhara
River.

Sr. No.	Channel (m)	Distance (m)	Area (m ²)	Mean Area (m ²)	Volume (m ³)
1	0	0	4.227	2.114	0
2	10.00	10.00	18.714	11.471	114.705
3	20.00	10.00	27.762	22.238	222.380
4	30.00	10.00	28.254	28.354	283.540

5	40.00	10.00	36.857	32.502	325.015
6	50.00	10.00	37.320	36.689	366.885
7	60.00	10.00	54.565	45.943	459.425
8	70.00	10.00	53.765	54.165	541.650
9	80.00	10.00	53.628	53.697	536.965
10	90.00	10.00	54.379	54.004	540.035
11	93.00	3.00	25.156	44.766	134.303

Gap For HL Bridge

12	144.00	0	34.896	17.448	0
13	150.00	6.00	52.214	42.555	261.330
14	160.00	10.00	11.316	31.765	317.650
15	170.00	10.00	3.641	7.479	74.785
16	180.00	10.00	5.934	4.788	47.875
17	190.00	10.00	3.716	4.825	48.250
18	200.00	10.00	6.844	5.280	52.800

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Sl. No.	Length (M)	Dist. (m)	Area (m ²)	Mean Area (m ²)	Volume (m ³)
19	210.00	10.00	10.869	8.857	88.565
20	220.00	10.00	14.303	12.586	125.86
21	230.00	10.00	6.866	10.585	105.845
22	236.00	6.00	7.864	7.385	44.190
					4702.053
	WBM-TT			= (-)	56.180
	GSS-1			= (-)	162.20
	subgrade & earth shoulder			= (+)	498.83
	levelling course Belans Approach			= (+)	7.54
	Approach Slab			= (-)	15.75
	Backfilling behind Abutment			= (+)	280.25
	Filter media			= (+)	52.79
	Buildup pitching			= (+)	90.24
	Filter media under pitching			= (+)	144.77
					3493.503 m ³

29/03/2022
JE

29/03/2022
AK

Continuation

ABSTRACT OF COST 4th + Final Bill 66

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
17/1	Clearing and Grubbing				
	Road land — do —				
	— do — all complete job.				
P-59	Qty — 0.224 Hec.				
	@ Rs. 47489.00/Hec = 6838=00				
2/2	Dismantling of existing				
	Structure — do — do —				
	— all complete job.				
P-51	Qty — 60.00 m ³				
	@ Rs. 1000.79/cum = 60,047=00				
3/3	Dismantling of existing				
	structure — do —				
	— do — all complete job.				
P-51	Qty — 135.00 m ³				
	@ Rs. 228.40/cum = 30,834=00				
4/4	Construction of embankment				
	with approved material				
	— do — do — all				
	complete job.				
P-63	Qty — 417.56 m ³				
	@ Rs. 48.810/cum = 20381=00				
5/5	Construction of embankment				
	with material obtained				
	— do — do —				
	— all complete job.				

Continuation

C=0=1,18,100=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
P-64465	Qty -	3493.503 m ³			
	Unit -	3486.824 m ³			
	@ Rs -	174.98 / cum =			6,10,124=00
15/6	Consolidate subgrade and				
	earth shoulders -- do --				
	-- do -- all complete job				
P-59	Qty -	498.83 m ³			
	@ Rs -	176.62 / cum =			88,103=00
17/7	Granular sub-base with				
	well graded materials				
	-- do -- do --				
	all complete job				
P-60	Qty -	162.20 m ³			
	Unit -	162.50 m ³			
	@ Rs -	3029.29 / cum =			4,90,745=00
18/8	WBM-III, Providing, laying				
	spreading and compacting				
	-- do -- do -- all				
	complete job.				
P-60	Qty -	56.18 m ³			
	@ Rs -	3757.88 / cum =			2,11,118=00
19/9	Prime coat - Providing				
	and applying prime coat				
	-- do -- do -- all				
	complete job.				
P-60	Qty -	749.00 m ²			
	@ Rs -	41.46 / m ² =			31,054=00

Continuation

C-0 = 15,49,244=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1107/10	Tack coat:- Providing and applying tack coat				
	do - do - all				
	complete Job.				
P-60	Qty - 749.00m ²				
	@Rs. 14.05 / m ² = 10,523=00				
1117/11	Mix seal curbsiding:- providing, laying and rolling - do - do - all complete Job.				
P-61	Qty - 749.00m ²				
	@Rs. 204.80 / m ² = 1,53,395=00				
1127/12	Road marking with hot applied thermoplastic - do - do - all complete Job.				
P-61	Qty - 36.00 m ²				
	@Rs. 735.35 / m ² = 26,473=00				
1137/13	Retro-reflectivised Traffic signs:- Providing & fixing - do - do - all complete Job.				
P-61	Qty - 2.00 nos.				
	@Rs. 4623.70 / each = 9247=00				
1147/14	Providing and fixing				
	Jugs of NABARD project				

Continuation

C.V = 17,48,882=00

Particulars	Details of actual measurement				Contents of area	
	No.	L	B	D		
		do	do			
		all complete Job				
P-51	Qty	4.00 m				
P-61	Qty	2.00 m				
	T. Qty	2.00 m				
	③ P	10708.32	/ each = 21417.00			
(15)/15	Providing & fixing of logs at Cisson Interstation					
		do	do		all	
	Complete Job					
P-61	Qty	1.00 m				
	③ P	10708.32	/ each = 10708.32			
(16)/16	Excavation for structure as per drawing					
		do	do		all	
	Complete Job					
	Qty	559.497 m ³				
	③ P	273.02	/ cum = 1,59,203.00			
(17)/17	Excavation for structure earthwork in excavation					
		do	do		all	
	Complete Job					
	3.00 to 6.00 depth					
P-52	Qty	116.44 m ³				
③	③ P	335.00	/ cum = 37843.00			
			C.A. = 19,73,052.00			

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	C	
(12)/12	Paving and laying of PCC M-15 balling course — do — do — all complete Job				
	Qty = 15.06 cum @ Rs. 22-273/cum				
	@ Rs. 6185-00/cum = 93145-00				
(13)/13	20 grade 17-30 in c/c foundation — do — — do — all complete Job				
P-52	Qty = 253.38 m ³				
	@ Rs. 7312-00/m ³ = 1854236-00				
(20)/20	Bored cast in situ 17-35 grade RCC — — do — do — — all complete Job				
P-52	Qty = 364.00 m				
	@ Rs. 17293-00/m = 6295572-00				
(21)/21	Supplying, fixing and placing TMT bar — — do — do — all complete Job				
P-53	Qty = 44.273 MT				
	@ Rs. 60734-00/MT = 2685324-00				
					C-1 = 1,29,16,85-00

Continuation

Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
122/22 Rcc grade M-35 in substructure — do — — do — — all complete Job.					
Qty - 189.240 cum					
@ Rs. 7589.00/cum =					14,36,142.00
123/23 Rcc grade M-35 in substructure — do — — do — — all complete Job.					
Form Smt to form height					
P-53 Qty - 21.849 m ³					
@ Rs. 7719.00/cum =					1,68,600.00
124/24 Supplying, fitting and placing TMT bar — — — — do — — do — — all complete Job.					
P-54 Qty - 23.55 MT					
@ Rs. 61017.00/MT =					14,36,950.00
125/25 Supplying, fitting and fixing in position true to line and level P.T. P.T.F. Bearing — — do — — do — — all complete Job.					
P-54 Qty - 18 nos.					
@ Rs. 54255.66/each =					9,76,602.00

Continuation

C-0 = 1,69,34,631.00

Date		Description of Work		Quantity	Unit	Amount
12/10	12/10	Graveling material in base preparation work				
		do - do - do				
		all complete job				
P. 51		Qty - 264.00 m ³				
		@ Rs 324.00 / cum =				85416.00
12/10	12/10	Graveling material				
		concrete, very well				
		do - do - do				
		Complete job				
P. 52		Qty - 274.00 m ³				
		Unit - 274.00 m ³				
		@ Rs 324.00 / cum =				88996.00
12/10	12/10	Graveling and base				
		filler material with				
		granular - do				
		do - all complete				
		Job				
P. 61		Qty - 52.00 m ³				
		@ Rs 324.00 / cum =				16848.00
12/10	12/10	Graveling and base				
		schredded cement concrete				
		do - do - do				
		all complete job				
P. 55		Qty - 183.55 m ³				
		@ Rs 887.00 / cum =				162455.00
		C.C. =				1,88,00 / 85.00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(30)/30	Supplying, fitting and placing HYSD bar ---				
	do --- do --- all				
	Complete Job.				
P-55	Qty. 40.579 MT				
	@ Rs. 62144.00/MT =				25,21,741.00
(31)/31	Providing and laying cement concrete wearing				
	do --- do --- all				
	Complete Job.				
P-56	Qty. 28.35 m ³				
	@ Rs. 12413.00/cum =				3,51,909.00
(32)/32	Construction of RCC railing at M-25 grade ---				
	do --- do --- all				
	Complete Job.				
P-56	Qty. 115.00 m				
	@ Rs. 2734.00/m =				3,14,410.00
(33)/33	Drainage spouts complete as per --- do --- do --- all complete Job				
P-56	Qty. 20 nos				
	@ Rs. 717.00/each =				14,340.00
(34)/34	RCC M-15 ordinary grade levelling course				

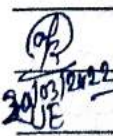
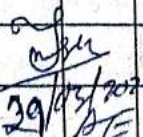
Continuation

C. U = 2,20,11,505.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	below	-- do --	-- do --		
	-- all complete job.				
P-62	Qty - 7.54 m ³				
	- 1 unit = 7.538 m ³				
	@ Rs. 5857.72/cum =				44155=00
[35]/35	Reinforced cement concrete				
	m-25 grade approach				
	Slab -- do -- do --				
	-- all complete job.				
P-62	Qty - 15.75 m ³				
	@ Rs. 11000.00/cum =				173250=00
[36]/36	Strip seal Expansion				
	Joint -- do -- do --				
	-- all complete job.				
P-56	Qty - 33.60 m				
	@ Rs. 21586.12/m =				7,25,294=00
[37]/37	Painting of parapet				
	wall -- do -- do --				
	-- all complete job.				
P-63	Qty - 126.50 m ²				
	@ Rs. 83.00/m ² =				10500=00
[38]/38	Procuring and laying				
	boulder pitching on				
	slope laid -- do --				

Continuation

C.O = 2,29,64,704=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
do do					
Complete Job.					
P-63 Qty - 90.24 m ³					
@ Rs. 3253.00/cum =					293551.00
139/39 Providing and laying filter material underneath--					
do do					
Complete Job.					
P-63 Qty - 44.77 m ³					
@ Rs. 3385.00/cum =					151546.00
					2,34,09,801.00
Add GST @ 12% =					28,09,176.00
Add L. Cost @ 1% =					2,34,09,800.00
					2,64,53,075.00
Less 10% as per Agreement = (-)					26,45,308.00
					2,38,07,767.00
1st Bill payment = (-)					84,85,069.00
2nd Bill payment = (-)					74,23,309.00
3rd Bill payment = (-)					51,08,131.00
					27,91,253.00
11/4/2022 W/s SANJAY CONSTRUCTION CO.					
 PARTNER					
 29/03/2022 UE					
 29/03/2022 UE					

Continuation