



GOVERNMENT OF ANDHRA PRADESH
PANCHAYATI RAJ ENGINEERING DEPARTMENT
CHITTOOR DISTRICT

SC SUB PLAN

DETAILED ESTIMATE

Name of work: Providing BT to the road from Tada Srikalahasti Road to Kambakam of Varadaiahpalem Mandal.

TOTAL LENGTH	:	3.200	Kms
PROPOSED LENGTH	:	3.200	Kms
ESTIMATE COST	:	138.00	Lakhs
CIRCLE	:	CHITTOOR	
DIVISION	:	PR Tirupati	
SUB DIVISION	:	PIU Srikalahasti	
MANDAL	:	Varadaiahpalem	
DISTRICT	:	CHITTOOR	

SPECIFICATION REPORT

Specification Report to accompany the detailed estimate for the Work " Providing BT to the road from Tada Srikalahasti Road to Kambakam of Varadaiahpalem Mandal."

Est.Cost Rs 138.00 Lakhs

The Work " Providing BT to the road from Tada Srikalahasti Road to Kambakam of Varadaiahpalem Mandal." is sanctioned vide G.O.RT. No. 731 Dt.09-11-2017 of Panchayat Raj & Rural Development (PROGS.I Department at an estimate Cost of Rs.138.00 Lakhs. Hence the Detailed Estimate is prepared and submitted for according Technical Sanction.

The total length of road is 3.20 Kms. It is earthen road in km 0/0 - 3/2. The road serves Four habitation: Kambakam, Kambakam HW, Ramireddypalem and Ramireddypalem ST Colony having total population of 1066. It is very useful for transportation of their Agriculture products to sri kalahasthi and tirupathi market yards.

S.No	Habitations	plain	SC	ST	Total
1	Kambakam	145	0	3	148
2	Kambakam HW	0	435	0	435
3	Ramireddy Palem	282	16	0	298
4	Ramireddy Palem ST Colony	0	0	188	188
	TOTAL	427	451	191	1069

The % of SC& ST Population is 56%

Hence, the estimate is prepared with the following provisions :

1. Clearing and grubbing road land including uprooting wild vegetation, grass, bushes, shrubs, saplings in Km 0/0-3/2
 2. widening of embankment with approved materials deposited at site from road way [carted Earth] in Km 0/0 - 3/2
 3. Construction of granular sub-base by providing well graded material in Km 0/0 - 3/2
 4. Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam in Km 0/0 - 2/8
 5. Providing, laying of close-graded premix surfacing [Mix Seal Surface] material of 25 mm thickness in Km 0/0 - 2/8
 6. Construction of un-reinforced, dowel jointed plain cement concrete pavement in Km 2/8 - 3/2
 7. Construction of shoulders using selected earth with approved material obtained from borrow pits in Km 0/0 - 3/2.
 8. Cross Drainage Works
 - 1 Construction of Pipe Culvert with 800 mm dia RCC Hume Pipes at Km 2/8 - 3/0 :: 1 Nos.
 - 2 Construction of Pipe Culvert with 600 mm dia RCC Hume Pipes at Km 3/0 - 3/2 :: 2 Nos.
- Necessary L S Provisions made in the estimate towards GST @ 12%, Q C Charges @ 0.5%, DF Charges, Road Furniture and unforeseen items.

The estimate is prepared with the Current Schedule of Rates 2017-18 and work will be execute as per standard Specifications.

Executive Engineer,

PR, Tirupathi Superintending Engineer PIU, Sri Kalahasti.
Panchayat Raj, Chittoor.

Dy. Exe. Engineer,

Assistant. Exe. Engineer,
PIU, Sri Kalahasti

**INSPECTION REPORT OF THE SUPERINTENDING ENGINEER,
PANCHAYAT RAJ CIRCLE, CHITTOOR.
PRESENT : SRI. C.Venugopal**

Date of Inspection : 18-11-2017

Name of the work: Providing BT to the road from Tada Srikalahasti Road to Kambakam of Varadaiahpalem Mandal

Name of the Grant : SC sub plan

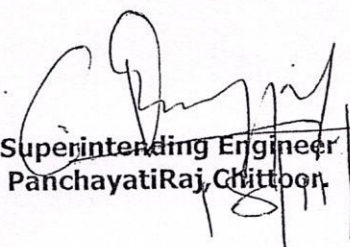
Officers Present : **1. Sri K.Prabhakar Reddy**
Deputy Exe Engineer
PIU, Srikalahasthi

2.Sri.S.Mujib Basha
AEE,PIU,Srikalahasthi


Inspected the work "Providing BT to the road from Tada Srikalahasti Road to Kambakam of Varadaiahpalem Mandal of Chittoor District".The total length of road is 3.20 Km and is earthen road. The Dy.executive engineer,PIU, Srikalahasthi is instructed to prepare the estimate with the following provisions.

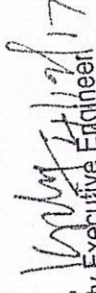
The following provisions may be made in the estimate.


- 1 ~~Formation of embankment in Km 0/0 - 3/20 to a width to 7.50 m using carted earth by machinery to OMC compaction.~~
- 2 Construction of GSB With thickness of 150 mm Compact by providing well graded material in Km 0/0 - 3/2 to OMC compaction
- 3 WMM should be proposed with Graded stone aggregate of 150 mm compacted thick for 3.75 mts width in km 0/0 - 2/8 except in CC Portion.
- 4 25mm thick MSS with prime coat and Tack coat in km 0/0 - 2/8 except in CC Portion .
- 5 CC pavement should be provided 200 mm thick and 3.750mts width in Village Portions in Km 2/8 - 3/2
- 6 Shoulders of 1.00 width with selected earth compacted to 150 mm thick from km Km kms 0/0 - 3/2 to OMC compaction.
- 7 Construction of Pipe Culvert with 800 mm dia RCC Hume Pipes at Km 2/8 - 3/0 :: 1 Nos. .
- 8 Construction of Pipe Culvert with 600 mm dia RCC Hume Pipes at Km 3/0 - 3/2 :: 2 Nos.
- 9 The estimate has to be prepared as per MORD and MORT & H Guidelines and Rural road manual SP 20.


Superintending Engineer
Panchayati Raj, Chittoor.

Sl No	Name of the work	Estimate Cost Rs. in Lakhs	Habitations covered	Population				% of SC & SC Population
				Plain	SC	ST	Total	
1	Tada - Srikalahasti Road to Kambakam		Kambakam	145	0	3	148	60.06
			Kambakam HW	0	435	0	435	
			Ramireddy Palem	282	16	0	298	
			Ramireddy Palem ST Colony	0	0	188	188	
				427	451	191	1069	


EXECUTIVE ENGINEER
 (P.R), TIRUPATHI.


Deputy Executive Engineer
 Panchayatraj (PIU)
 Srikalahasti.


 Srikalahasti

POPULATION PARTICULARS of (required hamlets)AS PER 2011 CENSUS
MANDAL :: VARADAIHA PALEM

Name of the Habitation	SC Population			ST Population			Total Population		
	M	F	T	M	F	T	M	F	T
SATHAMBEDU	204	196	400	1	0	1	230	225	455
AMBUR H/W	148	151	299	0	0	0	148	151	299
AMBUR ST Colony	0	0	0	90	85	175	90	85	175
MOPURAPALLI	88	118	206	5	3	8	223	253	476
THONDUR	217	231	448	8	7	15	238	242	480
VENGAREDDIKANDRIGA	0	0	0	0	0	0	71	78	149
VEG.EAST H.W	98	95	193	0	0	0	98	95	193
VEG.WEST H.W	148	140	288	0	0	0	148	140	288
Kancheraaplem (H/W)	265	270	535	0	0	0	265	270	535
PULIVALLAM	231	229	460				323	300	623
MATHERIMITTA	52	58	110	0	0	0	143	151	294
CHAVALI MITTA H.W	168	156	324	0	0	0	168	156	324
KAMBAKAM	0	0	0	2	1	3	75	73	148
Kambakam H/W	218	217	435	0	0	0	218	217	435
KAMBAKAM ST.COLONY	0	0	0	129	128	257	129	128	257
R.R.PALEM	9	7	16	0	0	0	148	150	298
R.R. S.T. COLONY	0	0	0	97	91	188	97	91	188
MARUDAWADA	0	0	0	0	0	0	85	90	175
EGUVAMARUDAWADA	0	0	0	0	0	0	99	95	194
RAMALINGAPURAM	72	69	141	86	105	191	168	180	348
MARUDAWADA H/W	87	80	167	0	0	0	87	80	167
RACHERLA	0	0	0	40	33	73	130	140	270
RACHERLA H/W	283	273	556	0	0	0	283	273	556
RACHERLA AW	83	87	170	0	0	0	83	87	170
CHILAMATHUR	236	235	471	51	45	96	349	372	721
CHOLAGRAHARAM	119	147	266	0	0	0	350	335	685

TAHSILDAR
VARADAIHA PALEM

20/1/17

GENERAL ABSTRACT

Providing BT to the road from Tada Srikalahasti Road to Kambakam of
Varadaiahpalem Mandal.

Sl. No.	DESCRIPTION OF ITEM	AMOUNT
1	2	3
1	Road items Civil	11241654 (11540497)
2	Construction of Pipe Culvert with 800 mm dia RCC Hume Pipes at Km 2/8 - 3/0 :: 1 Nos.	77262
3	Construction of Pipe Culvert with 600 mm dia RCC Hume Pipes at Km 3/0 - 3/2 :: 1 Nos.	82458
	11574374	(11617759)
4	Provision for Seignorage Charges	731995 (626346)
5	Add GST @ 12%	1388925 (1394131)
6	Provision for Q.C charges @ 0.5%	57872 (58089)
7	Provision for DPR Charges	20000 (32000)
8	Provision for Road Furniture	15000 ✓
	Cost plus 10% NAEE @ 10%	11574
9	Provision for unforeseen items and Price Escallation Charges, if any	260 (56675)
	TOTAL :	13800000 ✓

[Signature]
Dyl Exe. Engineer,
PIU, Sri Kalahasti.

[Signature]
Asst. Exe. Engineer,
PIU, Sri Kalahasti.

[Signature]
Executive Engineer,
PR, Tirupathi

[Signature]
Superintending Engineer,
Panchayat Raj, Chittoor.

15/12/17

15/12/17

The work is administratively sanctioned for Rs 1,38,00,000/-
vide G.O.Rs no: 721 dt 09.11.2017 under PRR SCC grant.

The work is technically sanctioned for Rs 1,38,00,000/-
(Rupees one crore thirty eight lakhs only) vide T.S.R. no:
2017-18 dt -01-18 of CE, PR, Vijayawade

o/c

9/11/18
Chief Engineer
PR, Vijayawade
Wf 10/11 12/11

// True copy //

Recd
By Executive Engineer
O.P. CHAITANYA, (P. 1000)
Panchayat, Tirupati
A.P., Vijayawade

/Attested /

EE
Executive Engineer
Panchayat Noj, TIRUPATI.

PS
4/8/20

DETAILED CUM ABSTRACT ESTIMATE

Providing BT to the road from Tada Srikalahasti Road to Kambakam of Varadaiahpalem Mandal.

SL	Description	No		Measurements			Quantity	Rate	Per	Amount
				L	B	D				
1	2	3		5	6	7	8	9	10	11
1	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 MORD including Overheads & Contractors Profit but excluding GST									
	In Km 0/0 to 3/2	1	x	2	3200.00	1.50	-	9600.00		
								9600.00		
	Deduct 40% for voids							-3840.00		
								5760.00	1.82	1 Sqm 10483
2	Construction of embankment with approved material obtained from borrow pits with all lifts, transporting to site, spreading, grading to required slope and compacting with 8 to 10 T capacity static roller to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5 MORD/ 305 MORTH (the topsoil from all areas of cutting and from all areas to be covered by embankment foundation shall be stripped to specified depths not exceeding 150 mm and stored in stockpiles of height not exceeding 2 m for covering embankment slopes, cut slopes and other disturbed areas where re-vegetation is desired, the original ground shall be levelled to facilitate placement of first layer of embankment, scarified, mixed with water and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 and the embankment and subgrade material shall be spread in layers of uniform thickness not exceeding 200 mm compacted thickness over the entire width of embankment by mechanical means, finished by a motor grader and compacted as per Clause 305.3.6, Successive layers shall not be placed until the layer under construction has been thoroughly compacted to the specified requirements as in Table 300-2, Each compacted layer shall be finished parallel to the final crosssection of the embankment including cutting continuous horizontal benches 300 mm wide on side slopes of existing embankment and subgrade, bench cutting) using machinery including overhead charges & Contractor profit, But excluding GST									
	In Km 0/0 to 3/2	As per Calculation sheet					10495.20			
							Cum	10495.20	161.77	1 CUM 1697809
3	Construction of granular sub-base by providing well graded material / Close graded material, spreading in uniform layers with motor grader on prepared surface mixing by mixing place method with rotavator at OMC and compacting with vibratory roller to achieve the desired density, complete as per Technical Specification clause 401 MORD/MORTH , including overhead charges & Contractor profit, But excluding GST and seignorage charges..									
	In Km 0/0 to 3/2	1	x	1	3200.00	4.00	0.15	1920.00	1320.77	253587
								Cum	1920.00	(1502.81) 1 CUM (288539)

SL	Description	No		Measurements			Quantity	Rate	Per	Amount
				L	B	D				
1	2	3		5	6	7	8	9	10	11
4	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mixer (Pug Mill), carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well prepared sub-base and compacting with Vibratory Roller 80-100 kN weight to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per Tables 400.11 & 400.12 and Technical Specification Clause 406 MORD/ MORTH, including contractors profit & Over head charges, GST and Seigniorage etc., complete									
	In Km 0/0 to 2/8	1	x	1	2800.00	3.75	0.15	1575.00		
							CUM	1575.00	2031.64	1 CUM 319983
5	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 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502 MORD (for use on Wet mix macadam & WBM) including contractors profit & Over head charges, GST									
	In Km 0/0 to 2/8	1	x	1	2800.00	3.75		10500.00	37.98	3987
							SQM	10500.00	(35.17)	1 SQM (36928)
6	Providing and applying tack coat with Bitumen emulsion (Rapid Setting RS-1) using emulsion distributor at the rate of 0.275 kg per sqm on the prepared dry and hungry bituminous surface cleaned with Hydraulic broom as per Technical Specification Clause 503 MORD including Overheads & Contractors Profit but excluding GST									
	In Km 0/0 to 2/8	1	x	1	2800.00	3.75		10500.00	8.77	920
								10500.00	(8.13)	1 SQM (8536)
7	Providing , laying of close graded premix surfacing (Mixed seal surfacing) material of 25 mm thickness by hot mix plant using hard blasted granite crushed aggregates of 13.2mm to 0.09mm (Type 'B') as per table 500.15 of specification 509 of MoRD, premixed with bituminous binder 60/70 grade (S-65,VG-30 Bulk) @ 23.75 Kg per 10 Sqm area, including cost of all materials (excluding seigniorage) and transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled roller 8 to 10 Tonnes as per MoRD Specification 509 complete for finished item of work in all respects as directed by Engineer-in-charge, including contractors profit & Over head charges, GST and Seigniorage etc., complete									
	In Km 0/0 to 2/8	1	x	1	2800.00	3.75	0.025	10500.00	6673.38	1751
								10500.00	(145.18)	1 SQM 15243
								262.50		

SL	Description	No		Measurements			Quantity	Rate	Per	Amount	
				L	B	D					
1	2	3		5	6	7	8	9	10	11	
8	Construction of un-reinforced, dowel jointed at expansion and construction joint only, plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS : 383, maximum in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including provision of contraction and expansion, construction joints, applying debonding strips, primer, sealant, dowel bars, near approaches to bridge / culvert and construction joints, admixtures as approved, curing of concrete slabs for 14-days, curing compound (where specified) and water finishing to lines and grade as per drawing and Technical Specification Clause 1501 MORD including, Overhead charges & Contractors Profit but excluding GST and Seignourage charges										
	Km 2/8 - 3/2	1	x	1	400.00	3.75	0.20	300.00	5182.09		55462
							CUM	300.00	5315.17	1	CUM 159455
9	Construction of shoulders by providing selected earth having minimum CBR of 10%, MDD not less than 1.85 g/cc with LL & PI not more than 40% and 20 respectively and spreading in uniform layers with tractor grader on prepared surface and compacted at OMC with vibratory roller 80-100 KN to meet requirement of Table 300.2 as per technical specification clause 303 MORD/305 MORTH by using machinery including overheads and contractor's profit but excluding GST & seignourage charges etc complete for finished item of work										
	In Km 0/0 to 3/2	1	x	2	3200.00	1.000	0.150	960.00			
								960.00	180.61	1	CUM 173386
	TOTAL ::										1154049

114146

Executive Engineer,
PR, Tirupathi

Dy. Exe. Engineer,
PIU, Srikalahasthi

Assistant Exe. Engineer
PIU, Srikalahasthi

Superintending Engineer
Panchayat Raj, Chittoor.

The total work sub estimate is approved for Rs 1,14,14,654.00.

SUB ESTIMATE - 1

Construction of Pipe Culvert with 800 mm dia RCC Hume Pipes at Km 2/8 - 3/0 :: 1 Nos.

SL No	Description	No		Measurements			Qty	Rate	Per		Amount	
				L	B	D						
1	2	3		5	6	7	8	9	10	11		
1	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 as per Technical Specification 305 MORD / 304 MORTH including contractors profit & Over head charges, GST and Seigniorage etc., complete											
	For Bodywalls	1	x	2	4.20	1.200	0.600	6.05				
	Under Pipes	1	x	1	5.10	1.300	0.900	5.97				
							12.02	85.78	1	Cum	1031	
2	Filling in foundation trenches as per drawing and technical specification Clause 305.3.9 MORD & 304 MORTH including contractors profit & Over head charges, VAT and Seigniorage etc., complete											
	For Bodywalls	1	x	2	4.20	1.20	0.15	1.51				
	Under Pipes	1	x	1	5.10	1.30	0.15	0.99				
							2.50	722.25	1	Cum	1806	
3	PCC M10 Providing concrete for plain/reinforced concrete in open foundations using 40 mm nominal size Graded hard stone aggregate, mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 MORD and 1500, 1700 & 2100 MORTH including contractors profit & Over head charges, GST and Seigniorage etc., complete											
	For Bodywalls	1	x	2	4.20	1.200	0.150	1.51				
	Under Pipes	1	x	1	5.10	1.300	0.150	0.99				
							1.51	2.50	3451.26	1	Cum	8628
4	PCC M15 for Sub Structure of head walls Providing concrete for plain/reinforced concrete in open foundations using 40 mm nominal size Graded hard stone aggregate, mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 MORD and 1500, 1700 & 2100 MORTH for Pipe culvert including contractors profit & Over head charges, GST and Seigniorage etc., complete											
	For Bodywalls	1	x	2	4.00	(0.9+0.4)/2	1.800	9.36				
	Parapet walls	1	x	2	2.00	0.300	0.300	0.36				
	Deduct for Pipes	-2	x	0.79	0.75	1.000	1.000	-1.19				
							8.53	3770.71	1	Cum	32164	

SL No	Description	No		Measurements			Qty	Rate	Per	Amount	
				L	B	D					
1	2	3		5	6	7	8	9	10	11	
5	Providing and laying reinforced cement concrete pipe 800 mm NP3 for culverts on first class bedding of granular material including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head wall and parapets. Tech Specification Clause 1106 MORD including contractors profit & Over head charges, GST and Seigniorage etc., complete										
		1	x	3	2.50	1.000	1.000	7.50	4412.27		33092
								7.50	4318.70	1 Rmt	32390
6	Plastering with CM (1:4), 15 mm thick including cost and conveyance of all materials and labour charges etc., complete including contractors profit & Over head charges, GST and Seigniorage etc., complete										
	For Bodywalls	1	x	2	4.00	1.000	1.000	8.00			
	Parapet walls	1	x	2	2.00	1.000	0.900	3.60			
	Deduct for Pipes	-2	x	0.79	0.80	1.000	0.800	-1.01			
								10.59	1173.29	10 Sqm	1243
											3176.60
	TOTAL ::										77262

Executive Engineer,
PR, Tirupathi

Dy. Exe. Engineer,
PIU, Srikalahasthi

Assistant Exe. Engineer,
PIU, Srikalahasthi

11 APPROVED 11

15/12/17

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SUB ESTIMATE - 2

Construction of Pipe Culvert with 600 mm dia RCC Hume Pipes at Km 3/0 - 3/2 :: 2 Nos.

SL No	Description	No		Measurements			Qty	Rate	Per		Amount
				L	B	D					
1	2	3		5	6	7	8	9	10	11	
1	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 as per Technical Specification 305 MORD / 304 MORTH including contractors profit & Over head charges, GST and Seigniorage etc., complete										
	For Bodywalls	2	x	2	2.70	1.200	0.300	3.89			
	Under Pipes	2	x	1	5.10	1.300	0.500	6.63			
							10.52	85.78	1	Cum	902
2	Filling in foundation trenches as per drawing and technical specification Clause 305.3.9 MORD & 304 MORTH including contractors profit & Over head charges, VAT and Seigniorage etc., complete										
	For Bodywalls	2	x	2	2.70	1.20	0.15	1.94			
	Under Pipes	2	x	1	5.10	1.30	0.15	1.99			
							3.93	722.25	1	Cum	2838
3	PCC M10 Providing concrete for plain/reinforced concrete in open foundations using 40 mm nominal size Graded hard stone aggregate, mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 MORD and 1500, 1700 & 2100 MORTH including contractors profit & Over head charges, GST and Seigniorage etc., complete										
	For Bodywalls	2	x	2	2.70	1.200	0.150	1.94			
	Under Pipes	2	x	1	5.10	1.300	0.150	1.99	3451.26	12	6563
						1.94	3.93	3451.26	1	Cum	13563
4	PCC M15 for Sub Structure of head walls Providing concrete for plain/reinforced concrete in open foundations using 40 mm nominal size Graded hard stone aggregate, mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 MORD and 1500, 1700 & 2100 MORTH for Pipe culvert including contractors profit & Over head charges, GST and Seigniorage etc., complete										
	For Bodywalls	2	x	2	2.50	(0.9+0.4)/2	1.000	6.50			
	Parapet walls	2	x	2	2.00	0.300	0.300	0.72			
	Deduct for Pipes	-4	x	0.79	0.75	0.750	0.750	-1.33	2725.28		21942
							5.89	3770.71	1	Cum	22209

SL No	Description	No	Measurements			Qty	Rate	Per	Amount
			L	B	D				
1	2	3	5	6	7	8	9	10	11
5	Providing and laying reinforced cement concrete pipe 600 mm NP3 for culverts on first class bedding of granular material including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head wall and parapets. Tech Specification Clause 1106 MORD including contractors profit & Over head charges, GST and Seigniorage etc., complete								
		2 x 3	2.50	1.000	1.000	15.00	2778.59		41679
						15.00	2744.33	1 Rmt	41165
6	Plastering with CM (1:4), 15 mm thick including cost and conveyance of all materials and labour charges etc., complete including contractors profit & Over head charges, GST and Seigniorage etc., complete								
	For Bodywalls	2 x 2	2.50	1.000	1.000	10.00			
	Parapet walls	2 x 2	2.00	1.000	0.900	7.20			
	Deduct for Pipes	-4 x 0.79	0.80	1.000	0.800	-2.02			
						15.18	1173.29	10 Sqm	1781
									6716.50
	TOTAL ::								82458

Executive Engineer,
PR, Tirupathi

Dy. Exe. Engineer,
PIU, Srikalahasthi

Assistant. Exe. Engineer,
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11 APPROVED 11

15/12/17
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