

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 Srikala asti 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 Varadaiahpalen 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 fo 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 habitations Kambakam, Kambakam HW, Ramireddypalem and Ramireddypalem ST Colony having total population of 1066. It i very useful for transportation of their Agriculture products to sri kalahasthi and tirupathi market yards.

	Habitations	plain	sc	ST	Total
S.No	Habitations		0	3	148
1	Kambakam	145	0		
2	Kambakam HW	0	435	0	435
		282	16	0	298
3	Ramireddy Palem		-	188	188
4	Ramireddy Palem ST Colony	0	0	100	100
	Colony				
	ITOTAL	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. widining 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 Drinage Works
- Construction of Pipe Culvert with 800 mm dia RCC Hume Pipes at Km 2/8 3/0 :: 1 Nos.
- Construction of Pipe Culvert with 600 mm dia RCC Hume Pipes at Km 3/0 3/2 ... 2 Nos 2 Necessary L S Provisions made in the estimate towards GST @ 12%, Q C Charges @ 0.5%, DF Charges, Road Furniture and unforseen 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, Chiltoor.

ssistant.Exe.Engineer, PIU, Sri Kalahasti₁

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.

- Formation of embankment in Km/070 3/20 to a width to 7,50 m using carted e machinary to OMC compaction.
- Construction of GSB With thickness of 150 mm Compact by providing well graded material in Km 0/0 - 3/2 to OMC compaction
- 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.
- 25mm thick MSS with prime coat and Tack coat in km 0/0 2/8 except in CC Portion . 4
- CC pavement should be provided 200 mm thick and 3.750mts width in Village Portions in Km 2/8 - 3/2
- Shoulders of 1.00 width with selected earth compacted to 150 mm thick from km Km kms 0/0 - 3/2 to OMC compaction.
- Construction of Pipe Culvert with 800 mm dia RCC Hume Pipes at Km 2/8 3/0 :: 1 Nos. . 7
- Construction of Pipe Culvert with 600 mm dia RCC Hume Pipes at Km 3/0 3/2 :: 2 Nos. 8
- The estimate has to be prepared as per MORD and MORT & H Guidelines and Rural road manual SP 20.

Superintending Engi PanchayatiRa

Population	ions covered Population SC ST Total Population	mbakam 145 0 3 148	bakam HW 0 435 0 435	reddy Palem 282 16 0 298 60.06	ddy Palem ST 0 0 188 188	427 451 191 1069	
			0				
ulation					·		
Pop	SC	0	435	16	0	451	
	Plain	145	0	282	0	427	
	Habitations covered	Kambakam	Kambakam HW	Ramireddy Palem	Ramireddy Palem ST		
	Estimate Cost Rs. in Lakhs						
	Name of the work			The Carlotte Boad to Kambakam	lada - Srikalaliasti Noad to Name	,	
	12 S				н		

EXECUTIVE ENGINEER (P.R.), TIRUPATHI.

Deputy Executive Engineer 17 Panchayatraj (PIU)
Srikalahasti

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

		MANDAL	:	VAKADAIAH PALEM	PALEIN				
	SC	Population	_	ST	Population	_	Tota	Total Population	nc
Name of the Habitation	Σ	ш	-	Σ	LL	 -	Σ	ட	Т
SATHAMBEDU	204	196	400	7	0	_	230	225	455
AMBUR HW	148	151	299	0	0	0	148	151	299
AMBUR ST Colony	0	0	0	06	85	175	90	85	175
MOPURAPALLI	88	118	206	5	က	8	223	253	476
THONDUR	217	231	448	80	7	15	238	242	480
VENGAREDDIKANDRIGA	0	0	0	0	0	0	71	78	149
VEG.EAST H.W	86	95	193	0	0	0	86	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			0	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 //	6	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	06	175
EGUVAMARUDAWADA	0	0	0	0	0	0	66	95	194
RAMALINGAPURAM	72	69	141	98	105	191	168	180	348
MARUDAWADA HW	87	80	167	0	0	0	87	80	167
RACHERLA	0	0	0	40	33	73	130	140	270
RACHERLA HW	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 VARADAIAH PALEM

GENERAL ABSTRACT

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

Sl. No.	DESCRIPTION OF ITEM		AMOUNT
1	. 2		111.16654
1	Road items Civil		11540497
2	Construction of Pipe Culvert with 800 mm dia RCC Pipes at Km 2/8 - 3/0 :: 1 Nos.	Hume	77262
3	Construction of Pipe Culvert with 600 mm dia RCC Pipes at Km 3/0 - 3/2 :: 1 Nos.	Hume	82458
	11	574374	11617759
4	Provision for Seignorage Charges	731995	626346
5	Add GST @ 12%	388925	(1394131)
6	Provision for Q.C charges @ 0.5%	57872	58089
7	Provision for DPR Charges	2000	32000
8 .	Provision for Road Furniture		15000 /
9	Provision for unforeseen items and Price Escallation if any	Charges,	260 56675
		TOTAL:	13800000 L

DylExe.Engineer, 111)
PIU, Sri Kalahasti.

Executive Engineer, PR, Tirupathi Asst.Exe.Engineer,
PIU, Sri Kalahasti.

Superintending Engineer Panchayat-Rei, Chinopi.

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The work is admidustraturely southound for R, 1,28,00,000f-Unde Go RE 10: 721 db 09.11.2017 ender PRR SCC grant.

The work is technically scurtived for Rs 1,38,00,000/-.

Chaples one crone thirty eight lably only) who TSR 10:

2017-18 db -01-18 of CE, PR, Vijoyawala

chief Engines

Phivijayawade

Diol, isti

Dy Executives of A.P., Village of A.P.

Attested /

Exacutive Engineer Panchaput Rej. TIRUPATI.

95/8/20

DETAILED CUM ABSTRACT ESTIMATE

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

	7											
SL	Description		No		Mea	suremer	its	Quantity	Rate		er	Amount
SL	Description		NO		L	В	D	Quantity	Kate	,	ei	Amount
1	2	3			5	6	7	8	9	•	10	11
1	Clearing and grubbing bushes, shrubs, sapling such trees cut earlier at serviceable material to removal and disposal of per Technical Specific Contractors Profit but expenses.	s and to a dispose to be use top or continuous t	rees oosal d or a ganic Clau	of g of u auc soi se	irth upto 30 unserviceal tioned, upto I not excee	00 mm, reple mater of a lead of ding 150	emoval of ials and s of 1000 n mm in th	stumps of stacking of n including ickness as			•	•
	In Km 0/0 to 3/2	1	x	2	3200.00	1.50	-	9600.00				
								9600.00			3.	
	Dedcut 40% for voids	s						-3840.00				
								5760.00	1.82	1	Sqm	1048
2	Construction of embank with all lifts, transporting compacting with 8 to 10 300.1 and 300.2 with Clause 301.5 MORD/ 3 from all areas to be conspecified depths not expecified depths not expecified areas where levelled to facilitate playwith water and then of density as given in Table shall be spread in lacompacted thickness of means, finished by 305.3.6, Successive layer has been thoroughly construction.	ng to so T cap a lead 305 MC vered ceeding overing re-veg cemen ompacule 300 yers cover tha moters sha	site, sacity I upto DRTH by er g 150 g em getation to fitted to -2 and of unite en gull not	spresta standard stan	eading, gratic roller to 2000 m as ne topsoil fankment form and storickment slotis desired, layer of earling so a ne embank m thickness width of earling countiller and cou	ading to meet recommend adding to per Tector all a undation ed in stocepes, cut the original embankment and as to aclument and as not e embankment compacte	required quirement hnical Sp reas of c shall be skpiles of slopes hal groun ent, scar hieve mir d subgrace xceeding hent by r d as pe	slope and tof Tables becification butting and stripped to height not and other d shall be ified, mixed himum dry de material 200 mm nechanical er Clause onstruction				
	2,Each compacted layer the embankment includ on side slopes of exis machinery including over	ing cut ting er	be fiting contact	inis onti kme	hed paralle inuous hori ent and su	el to the f zontal be bgrade,b	inal cross nches 30 ench cut	ssection of 0 mm wide ting) using				, ,
	the embankment includ on side slopes of exis	ing cut ting er erhead	be fiting controls the control the controls the control the controls the control the contro	inis onti kme ges	hed paralle inuous hori ent and su	el to the f zontal be bgrade,b tor profit,	inal cross nches 30 ench cut	ssection of 0 mm wide ting) using	•			, , ,
	the embankment includ on side slopes of exis machinery including over In Km 0/0 to 3/2	ing cut ting er erhead As pe	be fitting comban character Ca	inis conti kme ges alcu	hed paralle inuous hori ent and su & Contrac lation she	el to the fizontal beatontal beaton profit,	inal cross nches 30 ench cut But excl	ssection of 0 mm wide ting) using uding GST 10495.20	161.77	1	CUM	169780
3	the embankment includ on side slopes of exis machinery including ove	As per sub- ding in place of the policy of t	be fitting combanichary charger Cambase unifice met	by orm	hed paralle inuous horient and su & Contract lation she providing layers with with rotavired density RTH, inc	el to the fizontal beatbgrade, betor profit, eet well grade himotoriator at Oly, compleid luding over the profit of the profit	cum Cum ed mater grader or MC and cote as per verhead	ssection of 0 mm wide ting) using uding GST 10495.20 10495.20 rial / Close of prepared compacting r Technical		1	СИМ	169780
3	the embankment includ on side slopes of exis machinery including over In Km 0/0 to 3/2 Construction of granula graded material, spreasurface mixing by mixin with vibratory roller to a Specification clause 4	As per sub- ding in place of the policy of t	be fitting combanichary charger Cambase unifice met	by orm	hed paralle inuous horient and su & Contract lation she providing layers with with rotavired density RTH, inc	el to the fizontal beatbgrade, betor profit, eet well grade himotoriator at Oly, compleid luding over the profit of the profit	cum Cum ed mater grader or MC and cote as per verhead	ssection of 0 mm wide ting) using uding GST 10495.20 10495.20 rial / Close of prepared compacting r Technical			СИМ	169780

	Description 2 Providing, laying, spreamix macadam specificate OMC in mechanical mixiste, laying in uniform labase and compacting with desired density including etc as per Tables 400. MORD/ MORTH, including Seigneorage etc., complete	ation ker (F lyers vith V g ligh 11 & ing co	and including In suriting, 400.	iding Mill), ib-ba ory l bar	premixing carriage cose/base coller 80-1 ricading arang mand Techni	of the mainted of the course on a course of the cour	aterial with material b a well pre eight to a	n water at by tipper to pared sub-			Per 10	Amoun 11
4	Providing, laying, spreamix macadam specifications of the modern macadam specification of the modern m	ding ation ker (Fayers yith V g ligh 11 & ing co	and including In suriting, 400.	iding Mill), ib-ba ory l bar	pacting graph premixing carriage conselbase	aded store the man of mixed ourse on a 00 kN w	ne aggregaterial with material based as well pre- eight to a	ate to wet n water at by tipper to pared sub-			10	11
	mix macadam specifications of the compacting with the compacting w	ation ker (F lyers vith V g ligh 11 & ing co	incluing I in su ibratating, 400	iding Mill), ib-ba ory l bar	premixing carriage cose/base coller 80-1 ricading arang mand Techni	of the mainted of the course on a course of the cour	aterial with material b a well pre eight to a	n water at by tipper to pared sub-				
I					s profit & C	oal Spec Over head	ification C	diversion,				
	In Km 0/0 to 2/8	1	×	1	2800.00	3.75	0.15	1575.00				
							CUM	1575.00	2031.64	1	сим	319983
. P	Providing and applying particles of granular baserimer at the rate of Technical Specification (WBM) including contract	se ind 0.70- Claus	cludi -1.0 se 50	ng c kg/s 2 M	leaning of qm using ORD (for t	road su mechan use on W	rface and ical mear let mix m	d spraying				•
l	n Km 0/0 to 2/8	1	×	1	2800.00	3.75		10500.00	37.99	\$		3987
							SQM	10500.00		1	SQM	36928
a	Providing and applying to using emulsion distributed and hungry bituminous s Specification Clause 503 excluding GST	or at the	he ra e cle	ate o	f 0.275 kg d with Hydr	per sqm	on the proof	epared dry				
	n Km 0/0 to 2/8	1	×	1	2800.00	3.75		10500.00	8.77			920
								10500.00	(8.13)	1	SQM	(853E
c s 6 e m w c c	Providing, laying of clomaterial of 25 mm thick trushed aggregates of specification 509 of MoR 55,VG-30 Bulk) @ 23.75 excluding seigniorage) an echanical paver finished with smooth wheeled roth age, including controls including controls eigneorage etc., complete for finished iterations.	kness 13.2m RD, pr Rg p and t er to Iller 8 m of v ractor	trans the to work	hot 0 0.0 ed v 0 Sq porti requi 10 T	mix plant 9mm (Typowith bitumin m area, incoming the hot red grade, onnes as pall respects & Over	using he 'B') as nous bind cluding comix to we level an per MoRI	ard blaste per table ler 60/70 lest of all re lork site, I d alignment D Specific lited by Er harges,	ed granite 500.15 of grade (S- materials (aying with ent, rolling cation 509				*
Ir	n Km 0/0 to 2/8	1	x	1	2800.00	3.75		10500.00			Cery	1751:
								26250	(145.18	1		15243!

					Measure	ments		Quantity	Rate	Per	P	mount
SL	Description	N.	0	L	В		D	Quartery				
1	2	3	T	5	6		7	8	9	10	_	11
1 8	Construction of un-reir joint only, plain cement prepared sub base, wit 1501.2.2 M30 (Grade), maximum in a concreappropeiate weigh bate side formwork (steel chilm, wedges, steel plaspreading the concrete and plate vibrators and contraction and expanding rimer, sealant, down construction joints, add days, curing compour grade as per drawing including, Overhead Seignourage charges	forced, concreded to 43 grands and the sinch with shore the sinch with shore the sinch with shore the sinch consion, could bars, mixtures and (when and the sinch with shore the sinch with shore the sinch with shore the sinch with shore the sinch with si	te pay ade o and er of ng app aying uding olvels, d in co onstru nea as a re spe Techi	l jointed vement, rement of fine agg not less proved nand fixing levelling rakes, continuous action joint rapproved proved ecified)	d at expa thickness or any oth gregates of ss than of mix design ng of 125 g the form compacte as operation bints, app aches to , curing of and water operification	nsion as pener type conform 0.2 cun, laid in mictro mwork dusing on including of bridg of concert finish n Clau	and corrected as per design of the cap in appropriate as per general debond of the cap in the cap i	acity and poved fixed polythene drawing), e, scareed rovision of ing strips, alvert and abs for 14-lines and 11 MORD				
	Km 2/8 - 3/2	1	x	1 400	0.00 3.	75	0.20	300.00	5182.09		CUM	55462 (159455
							CUM	1	VE215 17		CUIVII	(15945)
		1						300.00	5315 17			
9	Construction of should 10%, MDD not less the respectively and spreasurface and compact requirement of Table MORD/305 MORTH to profit but excluding Grands.	nan 1.85 ading in ed at 0 e 300.2 ov using	g/cc unifo DMC as mach	with LL rm layer with vib per ter inery ine	. & PI not rs with tra pratory rol chnical soluding ov	more actor graller 80 pecifications rerheace	minim than 4 rader o -100 K ation o	um CBR of 0% and 20 n prepared N to mee clause 303 contractor's				
9	10%, MDD not less the respectively and spreasurface and compact requirement of Table MORD/305 MORTH to profit but excluding Good work	nan 1.85 ading in ed at 0 e 300.2 ov using	g/cc unifo DMC as mach	with LL rm layer with vib per te- linery ind rege cha	. & PI not rs with tra pratory rol chnical soluding ov	more actor grant and sector grant grant and sector grant gr	minim than 4 rader o -100 K ation o	um CBR of 0% and 20 n prepared N to mee clause 303 contractor's nished item				
9	10%, MDD not less the respectively and spressurface and compact requirement of Table MORD/305 MORTH to profit but excluding G	nan 1.85 ading in ted at (e 300.2 by using ST & sei	o g/cc unifo OMC 2 as mach ignour	with LL rm layer with vib per te- linery ind rege cha	. & PI not rs with tra pratory rol chnical s cluding ov arges etc o	more actor grant and sector grant grant and sector grant gr	minim than 4 rader o -100 K ation of ds and te for fi	um CBR of 0% and 20 n prepared N to mee clause 303 contractor's nished item		1		17338
9	10%, MDD not less the respectively and spreasurface and compact requirement of Table MORD/305 MORTH to profit but excluding Good work	nan 1.85 ading in ted at (e 300.2 by using ST & sei	o g/cc unifo OMC 2 as mach ignour	with LL rm layer with vib per te- linery ind rege cha	. & PI not rs with tra pratory rol chnical s cluding ov arges etc o	more actor grant and sector grant grant and sector grant gr	minim than 4 rader o -100 K ation of ds and te for fi	um CBR of 0% and 20 n prepared N to mee clause 303 contractor's nished item			CUM	

Executive Engineer, PR,Tirupathi

Assistant.Exe. Engineer PIU, Srikalahasthi

Superintending Engineer.
Panchayatita Chitiogr.

The Young park sub-extents & approved for R, 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	Description		No	-		asuremen		Qty	Rate	P	er	Amount
0	Description		110		L	В	D	4-1				
1	2	3			5	6	7	8	9	1	0	· 11
L	Earthwork in excavation specifications Clause, 305 shoring and bracing, rematerial and disposal up bottom and backfilling in per Technical Specificatic contractors profit & Ove	5.1 inc emoval oto a l trench on 305	cludi l of lead les w	stump of 50 ith exc ORD /	ting out os and m, dres avated s	t, construct, cother dele sing of sicuitable mat MORTH in	tion of eterious les and erial as cluding					
	complete For Bodywalls	1	×	2	4.20	1.200	0.600	6.05				
1	Under Pipes	1	×	1	5.10	1.300	0.900	5.97		^		
		T : 1						12.02	85.78	1	Cum	1031
	Filling in foundation specification Clause 30 contractors profit & Ove complete For Bodywalls	5.3.9 r head	MOI l cha	RD & irges, \	304 M /AT and	1ORTH in	cluding ige etc.,					
_		1	X	2	4.20	1.20	0.15	1.51				<u> </u>
	Under Pipes	1 1										
	PCC M10 Providing confoundations using 40 mm	crete f	nal s	ize Gr	aded has	rd stone ag	gregate,		722.25	1	Cum	1806
3		ncrete in nomined in follows contra	for pinal sound	plain/resize Gralation a ete as p	einforced aded had and compoer draw 3 MORE & Over	I concrete rd stone ag pacted by v vings and t D and 1500, head charg	in open gregate, ibration echnical 1700 & ges, GST	2.50	722.25	1	Cum	1806
3	foundations using 40 mm mechanically mixed, placincluding curing for 14 despecifications Clause 802 2100 MORTH including and Seigneorage etc., con For Bodywalls	ncrete in nomined in follows contra	for pinal sound	plain/resize Gralation a ete as p	einforced aded had and com- per draw 3 MORE & Over	d concrete rd stone ag pacted by v vings and t o and 1500, head chars	in open gregate, ibration echnical 1700 & ges, GST	2.50	722.25	1	Cum	1806
3	foundations using 40 mm mechanically mixed, placincluding curing for 14 despecifications Clause 802 2100 MORTH including and Seigneorage etc., con	n nomi ed in follows co., 803, contra	for p inal s ound omple 1202 ctors	plain/resize Gradation a lation a latio	einforced aded had and compoer draw 3 MORE & Over	I concrete rd stone ag pacted by v vings and t D and 1500, head charg	in open gregate, ibration echnical 1700 & ges, GST	1.51	722.25 340>		Cum	1806
3	foundations using 40 mm mechanically mixed, placincluding curing for 14 despecifications Clause 802 2100 MORTH including and Seigneorage etc., com For Bodywalls Under Pipes	n nomi ed in follays co , 803, contra nplete	for pinal sound omple 1202 ctors	olain/resize Gradation a ete as p & 1200 s profit	einforced aded had and composer draw 3 MORD & Over 4.20	I concrete rd stone ag pacted by v vings and t o and 1500, head chars 1.200 1.300	in open gregate, ibration echnical 1700 & ges, GST 0.150 0.150	1.51 		シ		518
3	foundations using 40 mm mechanically mixed, placincluding curing for 14 despecifications Clause 802 2100 MORTH including and Seigneorage etc., com For Bodywalls Under Pipes PCC M15 for Sub Strue plain/reinforced concrete size Graded hard stone foundation and compact complete as per drawing 1202 & 1203 MORD and including contractors Seigneorage etc., complete For Bodywalls	cture of aggreed by s and to 1500, profit te	for prinal sound on plant of the sound of th	plain/resize Gralation a ete as pete as profit 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	einforced aded had and comport draw 3 MORE & Over 4.20 5.10 llls Provious usinanically acluding ecification MOR head comport 4.00	1.200 1.300 1.300 viding conors 40 mm vings for cons Clause TH for Pipcharges, G	in open gregate, ibration echnical 1700 & ges, GST 0.150 0.150 crete for nominal laced ir 14 days 802, 803 e culver ST and	1.51 -0.99 -2.50	多中 ₆ >、 3451.26	シ		518
	foundations using 40 mm mechanically mixed, placincluding curing for 14 despecifications Clause 802 2100 MORTH including and Seigneorage etc., com For Bodywalls Under Pipes PCC M15 for Sub Strue plain/reinforced concrete size Graded hard stone foundation and compact complete as per drawing 1202 & 1203 MORD and including contractors Seigneorage etc., complete For Bodywalls Parapet walls	crete in nomined in follows contraint the contraint of th	for prinal sound ompleted to the sound ompleted to the sound of the so	plain/resize Gradation a ete as particular de la set as profit de la set as profit de la set ation inical sponso de la set ation de la set	einforced aded had and comport draw 3 MORE & Over 4.20 5.10 solutions using a cification of the ad a comport of the adaptive of the adapti	1.200 1.300 2.100	in open gregate, ibration echnical 1700 & ges, GST 0.150 0.150 crete for nominal laced ir 14 days 802, 803 e culver ST and 0.300 0.300	1.51 -0.99 2.50	多中@>\ - 3 <u>4</u> 5126	シ		\$ 135
	foundations using 40 mm mechanically mixed, placincluding curing for 14 despecifications Clause 802 2100 MORTH including and Seigneorage etc., com For Bodywalls Under Pipes PCC M15 for Sub Strue plain/reinforced concrete size Graded hard stone foundation and compact complete as per drawing 1202 & 1203 MORD and including contractors Seigneorage etc., complete For Bodywalls	cture of aggreed by s and to 1500, profit te	for prinal sound on plant of the sound of th	plain/resize Gralation a ete as pete as profit 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	einforced aded had and comport draw 3 MORE & Over 4.20 5.10 llls Provious usinanically acluding ecification MOR head comport 4.00	1.200 1.300 1.300 viding conors 40 mm vings for cons Clause TH for Pipcharges, G	in open gregate, ibration echnical 1700 & ges, GST 0.150 0.150 crete for nominal laced ir 14 days 802, 803 e culver ST and	2.50 1.51 -0.99 2.50	3451.26	シ		518

SL					Mea	asuremer	nts	Qty	Rate	P	er	Amount
10	Description		No		L	В	D	QLY	Rate			
1	2	3			5	6	7	8	9	1	0	11
5	Providing and laying reifor culverts on first clafixing collar with cemprotection works, backfi wall and parapets. Tech contractors profit & Overcomplete	ss bedo ent mo lling, c Specifi	ding ortar oncr catio	of gra 1:2 b ete and on Clau	nular r ut excli l mason se 1106	naterial ir iding exc ry works MORD ir	avation, in head icluding					
_	Complete	1	×	3	2.50	1.000	1.000	7.50	4412-	25		33091
		.4							4318.70		Rmt	32390
6	Plastering with CM (1:4) of all materials and contractors profit & Ov complete	labour	ch	arges	etc., co	mplete i	ncluding					·
1 1 1 1 1	For Bodywalls	1	X	2	4.00	1.000	1.000	8.00				
_	Parapet walls	1	×	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			
-					-1			10.59	1173.29	10	Sqm	124
		- 1		1								3176-6
	TOTAL ::											7726

Executive Engineer, PR,Tirupathi

Dy.Exe.Engineer, Assistant.Exe. Engineer, PIU, Srikalahasthi

11 APPROVED 11

1 SEARGA (1)

SUB ESTIMATE - 2

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

					Me	asuremen	ts	04.	Data	D		Amount
L	Description		No		L	В	D	Qty	Rate	P	er	Amount
	Earthwork in excavation specifications Clause 305 shoring and bracing, rematerial and disposal up bottom and backfilling in	5.1 inc emoval oto a le	ludin of ead	stump of 50	ting out s and m, dres	t, construct other dele sing of sid	tion of terious es and	8	9	1	.0	11
	per Technical Specificati contractors profit & Ove complete For Bodywalls	on 305	MC	DRD /	304 M	ORTH ind	cluding	3.89				
	Under Pipes	2 .	x	1	5.10	1.300	0.500			-		
-	—i		+		3.10	1.500	0.500	6.63 10.52	85.78	1	Cum	902
	Filling in foundation specification Clause 30 contractors profit & Ove complete	5.3.9 N er head	MOR chai	D & rges, V	304 M AT and	ORTH in Seigneora	cluding ge etc.,					
	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		283
3	mechanically mixed, plac including curing for 14 d specifications Clause 802	lays co , 803, 1	mple 202	te as p & 1203	er draw MORD	rings and to	echnical					
	2100 MORTH including		ctors	prom	& Over							
			x	2	& Over							
	2100 MORTH including and Seigneorage etc., con	plete				head charg	es, GST		~ 2 462	-12		560
	2100 MORTH including and Seigneorage etc., con For Bodywalls Under Pipes	plete 2 2	×	2	2.70 5.10	1.200 1.300	0.150 0.150	1.94 1.99 3.93	3451.26	-l2 1	Cum	66 C
4	2100 MORTH including and Seigneorage etc., con For Bodywalls Under Pipes PCC M15 for Sub Structure plain/reinforced concrete size Graded hard stone foundation and compact complete as per drawing 1202 & 1203 MORD and including contractors	cture of e in ope aggreed by vis and to 1500, profit	x x x of hea een for egate, vibra echni 1700	2 1 ad wa bundati mech tion in ical spe & 210	2.70 5.10 Ils Provious using anically cluding ecification of MORT	1.200 1.300 iding conorms 40 mm mixed, place curing for ons Clause 8 FH for Pipe	0.150 0.150 0.150 crete for nominal laced in 14 days 802, 803,	1.94 1.99 (3.93			1	
4	2100 MORTH including and Seigneorage etc., con For Bodywalls Under Pipes PCC M15 for Sub Structure plain/reinforced concrete size Graded hard stone foundation and compact complete as per drawing 1202 & 1203 MORD and	cture of e in ope aggreed by vis and to 1500, profit	x x x of hea een for egate, vibra echni 1700	2 1 ad wa bundati mech tion in ical spe & 210	2.70 5.10 Ils Provious using anically cluding ecification of MORT	1.200 1.300 iding conorms 40 mm mixed, place curing for ons Clause 8 FH for Pipe	0.150 0.150 0.150 rete for nominal laced in 14 days 802, 803, e culvert	1.94 1.99 (3.93	3451.26		1	
4	2100 MORTH including and Seigneorage etc., con For Bodywalls Under Pipes PCC M15 for Sub Structure plain/reinforced concrete size Graded hard stone foundation and compact complete as per drawing 1202 & 1203 MORD and including contractors Seigneorage etc., complete	cture of e in ope aggreed by vis and to 1500, profit	x x of hea een for egate, vibra echni 1700 & (2 1 ad was bundati mechtion in ical spece & 210 Over	2.70 5.10 Ils Provious using anically cluding ecificatic of MORT head	1.200 1.300 riding concerns 40 mm mixed, placed for curing for curing for the c	0.150 0.150 0.150 orete for nominal laced in 14 days 802, 803, e culvert	1.94 1.99 (3.93	3451.26		1	
4	2100 MORTH including and Seigneorage etc., con For Bodywalls Under Pipes PCC M15 for Sub Structure plain/reinforced concrete size Graded hard stone foundation and compact complete as per drawing 1202 & 1203 MORD and including contractors Seigneorage etc., complete For Bodywalls	cture of e in ope aggreed by vis and to 1500, profit te	x x x x x x x x x x x x x x x x x x x	2 1 ad wa bundati mech tion in ical spe & 210 Over	2.70 5.10 Ils Provious using anically cluding ecification of MORT head control 2.50	1.200 1.300 1.300 riding concluded and a mixed, placed curing for curing for curing for Pipe harges, Granges, Granges	0.150 0.150 0.150 O.150 O.150 Orete for nominal laced in 14 days 802, 803, e culverto ST and 1.000	1.94 1.99 (3.93 6.50 0.72	3451.26	1	1	

SL No	Descriptio -	NIC			Me	asuremer	Qty	Rate	Per		Amount	
	Description		No		L 5	B 6	D 7	8	Rate	10		11
	2	3							9			
5	wall and parapets. Tech Specification Clause 1106 MORD including contractors profit & Over head charges, GST and Seigneorage etc.,								•			
_	complete	2	×	3	2.50	1.000	1.000	15.00	2778-	59		4167
									2744:33		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 Seigneorage etc., complete											•
	For Bodywalls	2	×	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	ile			
								15.18	1173.29	10	Sqm	178:
		. 1										6716-E

Executive Engineer, PR,Tirupathi Dy.Exe.Engineer, 7 PIU, Srikalahasthi

Assistant.Exe. Engineer, PIU, Srikalahasthi

11 APPROVEDI)

1 SEARCIA

15/12/17