

ЛОСТ ТОЛ докиндерим

Schedule XI.V-Form No. 134

Ag. No. - 21/SD/2021 - 2022

Шекарида.

DIVISION

Шокарда.

SUB-DIVISION

SHADIYAM TECHCONS. PVT. LTD

MEASUREMENT BOOK

Work Start - 28.7.2021

Completion - 27.07.2022

1341

AAJ PVT

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work:- Construction of road from 1637 TO Laladhi under M.M. & S.Y.					
Name of Agency:- Shriyama techcons private limited, Vishnu Kant Complex, Plot No. 301					
Work Order No. 21 S.P.D./2021-22					
Date of Work order:- 28/7/2021					
Date of Completion:- 27/7/2021					
Work Order No. 21 S.P.D./2021-22					
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(k)

Construction of subgrade and earthen shoulder with approved material obtained from borrow pits.

$$20 \times 30 \times 7.98 \times 0.32 = 1436.40 \text{ m}^3$$

$$10 \times 30 \times 7.98 \times 0.32 = 718.20 \text{ m}^3$$

$$10 \times 28 \times 7.98 \times 0.32 = 67.032 \text{ m}^3$$

$$20 \times 30 \times 7.98 \times 0.32 = 1436.40 \text{ m}^3$$

$$20 \times 30 \times 7.98 \times 0.32 = 1436.40 \text{ m}^3$$

Sch. XLV-Form No. 134					
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	200	300	7.98	0.30	$= 1436.40 \text{ m}^3$
	140	300	7.98	0.30	$= 1005.48 \text{ m}^3$
	10	19.80	7.98	0.30	$= 47.40 \text{ m}^3$
					$= 7583.71 \text{ m}^3$
(2)	Granular sub base with well graded material				
	Construction of granular sub base with well graded material -				
	P.C.C. Road Portion				
	60	300	3.75	0.1	$= 67.50 \text{ m}^3$
	18	15	3.75	0.1	$= 5.62 \text{ m}^3$
	5	$(8.5 + 6 + 3.75) \times 0.1$			$= 3.04 \text{ m}^3$
	B.T. road portion				
for	200	300	4.05	0.20	$= 486.00 \text{ m}^3$
	100	300	4.05	0.20	$= 243.00 \text{ m}^3$
	10	28	4.05	0.20	$= 22.68 \text{ m}^3$
	200	300	4.05	0.20	$= 486.00 \text{ m}^3$
	200	300	4.05	0.20	$= 486.00 \text{ m}^3$
	200	300	4.05	0.20	$= 486.00 \text{ m}^3$
	140	300	4.05	0.20	$= 340.20 \text{ m}^3$
	10	19.80	4.05	0.20	$= 16.038 \text{ m}^3$
	Factor width $4 \times 10 \times \left[\frac{4.05 + 5.0 + 4.05}{3} - 4.05 \right] \times 0.20$				$= 2.53 \text{ m}^3$
				2644.61 m^3	
(3)	W.B.M. Grading				
	Ponding layer spreading				

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
and Compacting stone aggregate of specific gravity to meet bound macadam specification including spreading in uniform layer					
Per second Portion					
6x	300	3.750	0.075		$= 50.62 \text{ m}^3$
1x	15 x	3.750	0.075		$= 4.22 \text{ m}^3$
5x	$(8.5 + 6.0 + 3.75) \times 0.075$				$= 2.28 \text{ m}^3$
BT sand portion					
20x	300	3.75 x	0.075		$= 168.75 \text{ m}^3$
10x	300	3.75 x	0.075		$= 84.37 \text{ m}^3$
1x	28 x	3.75 x	0.075		$= 7.87 \text{ m}^3$
20x	300	3.75 x	0.075		$= 168.75 \text{ m}^3$
20x	300	3.75 x	0.075		$= 168.75 \text{ m}^3$
20x	300	3.75 x	0.075		$= 168.75 \text{ m}^3$
14x	300	3.75 x	0.075		$= 118.12 \text{ m}^3$
1x	19.80 x	3.75 x	0.075		$= 5.56 \text{ m}^3$
Extra widening	4x10x	$[(3.75 + 4.22 + 3.75) - 3.75]$	$\times 0.075$		$= 0.75 \text{ m}^3$
					749.6 m^3
(24)	Prime coat Cement Concrete Pavement				
	Construction of 400 reinforced dowel				
	Jointed at expansion				

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	and Construction Joint				
	60	300	3.75	0.160	$= 108 \text{ m}^3$
	10	450	3.75	0.160	$= 9 \text{ m}^3$
	$5 \times (8.5 + 6 + 3.75) \times 0.160$				$= 4.86 \text{ m}^3$
			3		$= 121.86 \text{ m}^3$
(4)	<u>Paving Case</u>				
	200	300	3.75		$= 2250 \text{ m}^2$
	100	300	3.75		$= 1125 \text{ m}^2$
	10	280	3.75		$= 105 \text{ m}^2$
	200	300	3.75		$= 2250 \text{ m}^2$
	200	300	3.75		$= 2250 \text{ m}^2$
	200	300	3.75		$= 2250 \text{ m}^2$
	140	300	3.75		$= 1575 \text{ m}^2$
	10	11.800	3.75		$= 74.25 \text{ m}^2$
Bao	<u>Backs widening</u>				
	$40100 \times \left[\frac{3.75 + 4.70 + 3.75}{3} - 3.75 \right]$				$= 12.66 \text{ m}^2$
					11891.91 m^2
(5)	<u>Track case</u>				
	Providing and applying track coat with bitumen emulsion (RS-1) using emulsion distributor				
	Qty same as under				
	$10891.91 \text{ m}^2 - (4) = 11891.91 \text{ m}^2$				

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(6)	New seal surfacing				
	Asphalt concrete with				
	waste plastic				
	City 19 me no wide				
	T.M.B.N. (37) 11 me (5) =				11891.91 m ²
	Asphalt				
(7)	Construction of subgrade				
	Leaving shoulders with				
	upgraded material				
Sides of 4 SB	2x20x	30x	1.33x	0.20 =	319.20 m ³
	2x10x	30x	1.33x	0.20 =	159.60 m ³
	2x10	28x	1.33x	0.20 =	14.896 m ³
	2x20x	30x	1.23x	0.20 =	319.20 m ³
	2x20x	30x	1.33x	0.20 =	319.20 m ³
	2x20x	30x	1.33x	0.20 =	319.20 m ³
	2x14x	30x	1.33x	0.20 =	223.44 m ³
	2x10	19.80x	1.33x	0.20 =	10.533 m ³
Sides of 4 SB	2x20x	30x	1.202	0.077 =	111.06 m ³
2 MSS	2x10x	30x	1.202x	0.077 =	55.53 m ³
	2x10	28x	1.202x	0.077 =	5.18 m ³
	2x20x	30x	1.202x	0.077 =	111.06 m ³
	2x20x	30x	1.202x	0.077 =	111.06 m ³
	2x20x	30x	1.202x	0.077 =	111.06 m ³
	2x14x	30x	1.202x	0.077 =	77.74 m ³
	2x10	19.80x	1.202x	0.077 =	3.665 m ³
Sides of 4 SB	2x20x	30x	1.29x	0.16 =	74.304 m ³
(Dec Road)	2x10	150x	1.29x	0.16 =	6.19 m ³
Sides of	Sides of 4 SB / Dec Road				

Continuation

Sch.XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(13)	600mm x 450mm rectangle = 8.2				
(14)	700mm side octagon -				2 Nos
(15)	providing and laying of hot applied thermoplastic compound 2.5mm thick on bituminous surface				
	2x2x	30x	0.1	=	120.0m ²
	2x1x	30x	0.1	=	60.0m ²
	2x1x	28x	0.1	=	5.60m ²
	2x2x	30x	0.1	=	120.0m ²
	2x2x	30x	0.1	=	120.0m ²
	2x2x	30x	0.1	=	120.0m ²
	2x14x	30x	0.1	=	84.0m ²
	2x1x	19.8x	0.1	=	3.96m ²
					<u>633.56m²</u>
(16)	providing and laying of hot applied thermoplastic compound 2.5mm thick on cement concrete surface				
	2x6x	30x	0.1	=	36.0m ²
	2x1x	20x	0.1	=	4.0m ²
					<u>40.00m²</u>
(17)	painting two coats on new concrete surface				
	painting two coats				

Continuation

Sch.XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					including primer coat after filling the surface
	3x2x	6.0x	0.4x		= 14.4m ²
	3x2x	6.0x	0.5x		= 18.0m ²
	3x4x	0.4x	0.5x		= 2.40m ²
	3x2x	3.4x	0.4x		= 7.20m ²
	3x2x	3.6x	0.5x		= 9.6m ²
	3x4x	0.4x	0.5x		= 2.40m ²
	3x4x	2.4x	0.5x		= 14.7m ²
	2x2x	3.6x	0.4x		= 5.76m ²
	2x2x	3.6x	0.5x		= 7.20m ²
	2x4x	0.4x	0.5x		= 1.60m ²
					<u>82.66m²</u>
(18)	MMGSX Sign Board:				
	Providing and				
	fixing of typical				
	MMGSX zincbombed				
	sign board with logo				
	Providing & fixing logo of				
	Project as per drawing = 1 Nos				
	Citizen information Board = 1 Nos				
	Maintenance information				
	Board = 1 Nos				
					3 Nos
(19)	Laying cement concrete				
	Pipe B3 30mm dog				
	2x	2.50			= 52.5m ²

Continuation

Sch.XLV-Form No. 134

Sch.XLV-Form No. 154						
Particulars		Details of actual measurement				Contents of area
		No.	L.	B.	D.	
Excavation work Qty Sheet						
S.No	ch in m	Area m ²	Mean depth m	Distance m	Volume m ³	
1	0	5.642				
2	50	6.648	6.145	50	307.262	
3	100	6.652	6.650	50	332.497	
4	150	7.360	7.006	50	350.295	
5	200	6.740	7.150	50	357.497	
6	250	7.812	7.376	50	368.789	
7	300	8.024	7.908	50	395.398	
8	350	7.051	7.528	50	376.381	
9	400	7.410	7.230	50	361.524	
10	450	7.339	7.3875	50	368.729	
11	500	6.991	7.165	50	358.256	
12	550	7.767	7.379	50	368.954	
13	600	7.194	7.479	50	373.970	
14	650	7.007	7.099	50	354.959	
15	700	6.851	6.929	50	346.428	
16	750	7.389	7.120	50	355.992	
17	800	7.579	7.484	50	374.209	
18	850	7.513	7.546	50	377.317	
19	900	7.439	7.476	50	373.812	
20	950	7.507	7.473	50	373.656	
21	1000	6.124	6.816	50	340.778	
22	1050	6.755	6.439	50	321.965	
23	1100	6.519	6.637	50	331.853	
24	1128	8.584	7.552	28	211.450	
25	0	5.606	6.153			
26	50	6.702	6.735	50	307.660	
27	100	6.769	7.128	50	336.743	
28	150	7.487	7.372	50	374.906	
29	200	7.058	7.223	50	352.901	

Continuation

Executive Engineer
R.W.D. (W) Division
Sharghalla

Particulars	Details of actual			District	Volume
	No.	L.			
Sr No	Chin M	Area M ²	Mean Area M ²		
30	250	7.309	7.223	50	361.162
31	300	7.581	7.485	50	374.235
32	350	6.643	7.112	50	355.575
33	400	6.989	6.816	50	340.790
34	450	6.918	6.953	50	347.658
35	500	6.590	6.754	50	337.694
36	550	7.344	6.967	50	348.358
37	600	6.790	7.067	50	353.355
38	650	6.586	6.688	50	334.386
39	700	6.457	6.521	50	326.055
40	750	6.965	6.711	50	335.553
41	800	7.153	7.060	50	353.024
42	850	7.092	7.124	50	356.178
43	900	7.018	7.055	50	352.735
44	950	7.093	7.056	50	352.778
45	1000	5.742	6.418	50	320.894
46	1050	6.364	6.053	50	302.657
47	1100	7.025	6.604	50	334.722
48	1150	8.138	7.581		377.070
49	1200	7.635	7.886	50	394.308
50	1250	5.951	6.793	50	339.646
51	1300	6.708	6.329	50	316.473
52	1350	6.611	6.69	50	332.963
53	1400	7.505	7.058	50	352.896
54	1450	6.723	7.114	50	355.693
55	1500	6.786	6.784	50	337.711
56	1550	6.093	6.439	50	321.953
57	1600	6.975	6.534	50	326.698
58	1650	8.546	7.761	50	388.038
59	1700	6.254	7.40	50	370.008
60	1750	7.464	6.861	50	343.070
61	1800	7.501	7.485	50	374.242

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
54 ch	Area	Mean Area		Perimeter	Volume
62 1850	7.908	7.705			385.226
63 1900	8.158	8.033		50	401.645
64 1950	5.928	7.048		50	352.392
65 2000	5.999	5.969		50	298.430
66 2050	6.700	6.350		50	317.491
67 2100	7.686	7.193		50	359.667
68 2150	7.372	7.529			376.455
69 2200	7.058	7.215		50	360.745
70 2250	7.389	7.223		50	361.162
Total E/W Qty (including cross)				=	23780.21 m ³
Deductions for rust					
4 SD = 2644.61 m ³					
WBH 4 SD = 949.05 m ³					
PCC = 121.86 m ³					
M.S. (11591 - 9100) = 237.83 m ³					
Subtotal for rust = 9989.4 m ³					
13952.31 m ³					
Net payable Qty of E/W =					
23780.21 - 13952.31 = 9827.90 m ³					
(20) Construction of embankment with approved 100 m lead = 7019.95 m ³					
(24) Construction of embankment with approved material (1000 m lead) = 9827.90 - 7019.95 = 2807.95					
Accepted 31-1-24 A.O.					
31/1/24 J.E.					

Particulars	Details of actual measurement				Contents of area
	No.	L.	J.	D.	
	Abstract for				
	HT & Road Bell				
	(All Qty vide TMB)				
(1/1)	Construction of reference & working benchmarks				
	Qty vide TMB No. (28)				
	Item No (1) = 3.378 KM				
	CRS	3707.84/KM	RS	12514 =	
(2/2)	Construction of reference pillars/purges				
	Qty vide TMB No. (28)				
	Item No (ii) = 3.378 KM				
	@ RS	1683.44/KM 32378.1 KM	RS	5686 =	
(3/3)	clearing & grubbing road bed including - including uprating -				
	Qty vide TMB No. (29)				
	Item No (2) = 2.36 Hec				
	@ RS	52988.2/Hec	RS	125076 =	
(4/8)	Construction of sub grade and earthen shoulder.				
	Qty vide TMB No. (35)				
	Item No (1) = 7588.72 M ²				
	Qty vide TMB No. (35)				
	Item No (2) = 2415.29 M ³				
	9999.01 M ³				
	@ RS	176.64/M ³	RS	1766225 =	

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(5/9)	Granular Subbase with well graded material Construction of granular subbase by providing well graded material.				
	Qty under M.B.P. No. (35)				
	Item No. (2) = 2644.6113				
	@ Rs 2210.07/m ³				Rs 5844.6942
(6/10)	in P.M.G.R.D. Providing laying spreading and compacting stone aggregates				
	Qty under M.B.P. No. (36)				
	Item No. (03) = 943.0 m ³				
	@ Rs 2805.72/m ³				Rs 2662628 =
(7/14)	Cement concrete pavement M-30 Construction of unreinforced dowel seated at expansion joint and construction joint				
	Qty under M.B.P. No. (37)				
	Item No. (4) = 121.88 m ³				
	@ Rs 5574.42/m ³				Rs 679299 =
(8/11)	Prime coat Providing laying spreading and compacting				

Sch. XLV-Form No. 154					
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	stone aggregate and				
	applying primer coat				
	with bitumen emulsion				
	(SS-1)				
	Qty vide THBP No. (37)				
	Qty vide Item No. (4)				
	= 11891.91 m ²				
	@ Rs 43.43/m ²		Rs		516466 =
(9/12)	Tack coat				
	providing and applying				
	tack coat with bitumen				
	Emulsion (RS-1)				
	Qty vide THBP No. (37)				
	Item No (4) = 11891.91 m ²				
	@ Rs 15.18/m ²		Rs		180519.2
(10/13)	Mix Seal Surfacing Bitu-				
	minous with waste plastic				
	layer				
	Providing and applying				
	bitumen of close grade				
	for mix Surfacing . . .				
	Qty vide THBP No. (38)				
	Item No. (4) = 11891.91 m ²				
	@ Rs 187.48/m ²		Rs		2229495 =
(11/8)	Reinforced cement				
	concrete M15 grade				

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	kilometre stone / Local stone				
	Q ty vide T.M.B.P. No. - (89)				
	Item No. - (8) = 5.00 Nos				
	@ Rs 2033.56 each Rs				10168 =
(12/18)	200 mm stone (Precast)				
	Q ty vide T.M.B.P. No. - (89)				
	Item No. - (9) = 13.00 Nos				
	@ Rs 584.57 each Rs				7599 =
(13/19)	providing 115 mm (Cement concrete) Rectangular pillar / Local stone				
	Q ty vide T.M.B.P. No. - (89)				
	Item No. - (10) = 81.00 Nos				
	@ Rs 527.66 each Rs				42740 =
(14/24)	providing & fixing of retro-reflectors of cautionary mandatory and informative sign				
	600 mm Circular				
	Q ty vide T.M.B.P. No. - (89)				
	Item No. - (11) = 8.00 Nos				
	@ Rs 4583.80 each Rs				36670 =
(15/25)	600 mm equilateral triangle				

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	Qty vide TMBP No. (33)				
	Item No. - (12) = 22.00 ML				
	@ Rs 3403.97 each			Rs	74876 =
(16/26)	600 mm x 450 mm				
	rectangular				
	Qty vide TMBP No. (40)				
	Item No. - (13) = 4.80 ML				
	@ Rs 4462.97 each			Rs	35704 =
(17/27)	900 mm side octagon				
	Qty vide TMBP No. (40)				
	Item No. (14) = 2.60 ML				
	@ Rs 5199.09 each			Rs	16298 =
(18/28)	Providing and laying of hot applied thermoplastic compound 2.5 mm thick on bituminous surface				
	Qty vide TMBP No. (40)				
	Item No. - (15) = 633.50 ML				
	@ Rs 735.89/ML			Rs	466230 =
(19/29)	Providing and laying of hot applied thermoplastic compound 2.5 mm thick on RCC surface.				
	Qty vide TMBP No. (40)				
	Item No. (16) = 40.00 ML				
	@ Rs 870.17/ML			Rs	34807 =

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(20/31)	Dismantling of existing structures like culverts bridges Cement concrete.				
	Qty vide TMB P.N. - (18) (24)				
	Item No. - (17) 9.39 M ³				
	@ Rs	493.81/M ³	Rs		1672 =
(21/32)	Dismantling of existing structures like culverts, bridges - - - Cement mortar				
	Qty vide TMB P.N. - (24)				
	Item No. - (18) = 100.98 M ³				
	@ Rs	353.64/M ³	Rs		35711 =
(22/33)	Removing all types of house pipes - - -				
	Qty vide TMB P.N. - (24)				
	Item No. - (19) = 20.00 M				
	@ Rs	244.92/M	Rs		4898 =
(23/35)	Earth work in excavation for structures as per drawing				
	Qty vide TMB P.N. - (24)				
	Item No. - (20) = 352.41 M ³				
	@ Rs	305.42/M ³	Rs		107633 =

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(24/36)	Providing concrete for plain/reinforced concrete in open foundations (PCC M15)				
	Qty vide TMB P.N. - (20)				
	Item No. - (7) = 39.86 m^3				
	@ Rs 4483.370/m ³			Rs 178707 =	
(25/37)	Providing concrete for plain/reinforced concrete in open foundations (PCC M20)				
	Qty vide TMB P.N. - (30)				
	Item No. - (8)				
	= 222.20 m^3				
	@ Rs 4935.51/m ³			Rs 1096688 =	
(26/40)	Providing plain/reinforced cement concrete in sub-structure (PCC M-20)				
	Qty vide TMB P.N. - (30)				
	Item No. - (9/40) = 148.38 m^3				
	@ Rs 5148.18/m ³			Rs 763887 =	
(27/48)	Providing & laying ISI mark cement concrete pipe				
	Qty vide TMB P.N. - (30)				
	Item No. - (10) = 15.21 m				
	@ Rs 1172.29/m			Rs 17583 =	

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(28/41)	providing & laying RSC mass concrete work main pipe 1000mm dia Qty vide THB P.No. - (80) item No. - (11) = 22.57 m ³ @ Rs 3686.10/m ³ Rs 82937 =				
(28/51)	Filling on foundation trenches as per drawing - - - Qty vide THB P.No. - (30) item No. - (12) = 31.12 m ³				
	@ Rs 522.31/m ³ Rs 16259 =				
(30/30)	Layer (first class) bedding on well compacted sand - - - Qty vide THB P.No. - (80) item No. - (3) = 4.98 m ³ @ Rs 522.31/m ³ Rs 2601 =				
(30/41)	plain/reinforced concrete in sub structure Qty (RCC-20) Qty vide THB P.No. - (51) item No. - (14) = 12.42 m ³ @ Rs 5410.21/m ³ Rs 67196 =				

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(31/43) supplying, fitting and placing HYSD bars reinforcement in Superstructure - - -					
Qty of HYSD B.P. No. (31)					
Item No. (15) 1.986 M-T					
@ Rs 57391.10 / M-T					113979 =
(31/5/43) providing laying reinforcement concrete Super structure					
Qty of HYSD B.P. No. (31)					
Item No. (16) = 11.22 m ³					
@ Rs 6155.76 / M ³					69068 =
(34/20) Painting two coats on new Concrete Surface - Painting two coats on new concrete including primer coats					
Qty of HYSD B.P. No. (41)					
Item No. (17) = 82.6 m ²					
@ Rs 99.17 / m ²					- Rs 8197 =
(35/22) MMU sign board. Painting two coats. Providing and fixing of typical MMU					

Particulars	Details of actual measurement				Contents of area
	No.	L.	D.	D.	
Submasonry 3rd Canal with logs.					
Qty under THBP No. - (41)					
Item No. (18) = 3 Nos					
@ Rs 9270/-				9270	37500
					Rs 27811 =
(36/45) Laying cement concrete pipe 12" Bore					
Qty under THBP No. - (41)					
Item No. (19) = 52.80 m					
@ Rs 726 22/m					Rs 38127 =
(37/44) Back filling behind abutment wing wall					
Qty under THBP No. - (8)					
Item No. (17) = 106.02 m ²					
@ Rs 804.98/m ²					Rs 85376 =
(38/7) Construction of embankment with approved material (w/m lead)					
Qty under THBP No. - (45)					
Item No. (20)					
7019.95 m ³					
@ Rs 154.58/m ³					Rs 108544 =

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(39/6)	Construction of embankment with approved material (1000 m long)				
	Qty vide TMB P. No.				
	(44) Item & (51)				
	2807.95 m ³				
	@ Rs 192.03 M ³				Rs 539241 =
					Rs 19090474 =
	Add 12% GST				(+) Rs 2290857 =
	Add 1% Labour cess				(+) Rs 190905 =
	Add Survey charge fee				(+) Rs 276949 =
					Rs 21849185 =
	Less 0.17%				(-) Rs 37144 =
					Rs 21812041 =
	Less Previous payment				(-) Rs 12985384 =
					Rs 8826657 =
	400000 21/1/24 JE 37-1-29 A-5				