

**Specification report to accompany the estimate for the work of Forming
the New road from Bodhamalai- Kappukadu- Pudupatti- Kedamalai Road
KM 0/000- 11/375**

1.1 Objectives of Pradhan Mantri Gram Sadak Yojana (PMGSY)

Rural Road connectivity is a key component of rural development by promoting access to economic and social services and thereby generating increased agricultural incomes and productive employment opportunities. It is also a key ingredient in ensuring poverty reduction.

It was against this background of poor connectivity that the Prime Minister announced in 2000, a massive rural roads program. The Prime Minister's Rural Road Program (Pradhan Mantri Gram Sadak Yojana, PMGSY) set a target of:

- Achieving all-weather road access to every village/habitation with a population greater than 1000 by 2003
- Providing all-weather road access to all villages/habitations of population greater than 500 people [250 in case of hill States (North-Eastern states, Sikkim, Himachal Pradesh, Jammu & Kashmir and Uttaranchal), the desert areas and tribal areas] by the end of the Tenth Five Year Plan, i.e., 2007

1.2 All Weather Road

All Weather road is a road that's motorable all year by the prevailing means of rural transport. There will no interruption of traffic during the construction of the project road.

1.3 Core Network

The rural road network required for providing the 'basic access' to all villages/ habitations is termed as the Core Network. Basic access is defined as one all-weather road access from each village/ habitation to the nearby Market Centre or Rural Business Hub (RBH) and essential social and economic services.

A Core Network comprises of Through Routes and Link Routes. Through routes are the ones which collect traffic from several link roads or a long chain of habitations and lead it to a

market centre or a higher category road, i.e. the District Roads or the State or National Highways. Link Routes are the roads connecting a single habitation or a group of habitations to Through Roads or District Roads leading to Market Centres.

Link Routes generally have dead ends terminating on habitations, while Through Routes arise from the confluence of two or more Link Routes and emerge on to a major road or to a Market Centre.

The Core Network may not represent the most convenient or economic route for all purposes. However, since studies show 85-90% of rural trips are to market centres, the Core Network is likely to be a cost-effective conceptual frame work for investment and management purposes, particularly in the context of scarce resources.

The Sub-project road Keelur to Vadugammalur Road (Km 0/0 - 23/625) is a link road with Code L022 in Vennandur block of Namakkal District. This road directly connects the habitations of Vadugammalur Road (Km 0/0 - 23/625) with populations of 956 Thus this link road serves the total population of 956

Namakkal district covers an area of 3363 Sq.km. Namakkal district is bound by Salem district on the north side, on the east side by Attur taluk of Salem district, Perambalur and Tiruchirapalli Districts by Karur district on the south side and on the west side by Erode district.

This district is located at 11° 00' and 12 ° 00' North latitude and 77 ° 40' and 78°05' East longitude

1.5 Climatic Condition

Namakkal District comes under the North Western Agro climatic zone of Tamil Nadu Bodhamalai hills is a agricultural area in Namakkal district.

1.6 The Sub-Project Road

The road passes through Hill terrain

District: : Namakkal

Block: : Vennandur

Road Name: : Bodhamalai- Kappukadu- Pudupatti- Kedamalai Road

Road Code: : L021

Package No: : TN - 10 - 71

Road Length: : 11/375 Km

Start Point: : Bodhamalai- Kappukadu

End Point: : Pudupatti- Kedamalai Road (Km 0/0 - 11/375)

S.no	Habitation Benefitted	Population Benefitted		Chainage	
		Direct	Indirect	From	To
1	Pudupatti- Kedamalai Road	502	0	0	11375


FOREST ENGINEER-
TIRUCHIRAPPALLI

ABSTRACT

Name of the Work:

Forming of the New road from Bodhamalai- Kappukadu- Pudupatti-
Kedamalai Road KM 0/000- 11/375

Estimate Amount:

103600000

S.No

Qty

Details of Work

Rate

Unit

Amount

1

34125.00

Clearing and grubbing road land

8.50

Sqm

290063

2

Excavation in soil using hydraulic excavator and tippers with disposal upto
1000 m

9734.08

Km 0/000- 1/000

31.52

Cum

306818

16108.98

Km 1/000- 2/000

31.52

Cum

507755

7898.25

Km 2/000- 3/000

31.52

Cum

248953

3196.75

Km 3/000- 4/000

31.52

Cum

100762

13321.60

Km 4/000- 5/000

31.52

Cum

419897

45504.00

Km 5/000- 6/000

31.52

Cum

1434286

50940.04

Km 6/000- 7/000

31.52

Cum

1605630

35082.92

Km 7/000- 8/000

31.52

Cum

1105814

2124.91

Km 8/000- 9/000

31.52

Cum

66977

12607.90

Km 9/000- 10/000

31.52

Cum

397401

8072.75

Km 10/000- 11/000

31.52

Cum

254453

202.48

Km 11/000- 11/375

31.52

Cum

6382

3

Construction of Embankment with Material obtained from Roadway Cutting

1481.60

Km 0/000- 1/000

49.79

Cum

73770

3539.45

Km 1/000- 2/000

49.79

Cum

176229

7898.25

Km 2/000- 3/000

49.79

Cum

393254

3196.75

Km 3/000- 4/000

49.79

Cum

159166

13321.60

Km 4/000- 5/000

49.79

Cum

663282

469.73

Km 5/000- 6/000

49.79

Cum

23388

79.28

Km 6/000- 7/000

49.79

Cum

3947

595.31

Km 7/000- 8/000

49.79

Cum

29640

2124.91

Km 8/000- 9/000

49.79

Cum

105799

4958.81

Km 9/000- 10/000

49.79

Cum

246899

8072.75

Km 10/000- 11/000

49.79

Cum

401942

202.48

Km 11/000- 11/375

49.79

Cum

10081

4

Construction of Subgrade, Earthen Shoulders

0.00

Km 0/000- 1/000

123.10

Cum

0

0.00

Km 1/000- 2/000

123.10

Cum

0

7135.65

Km 2/000- 3/000

123.10

Cum

878399

28434.69

Km 3/000- 4/000

123.10

Cum

3500310

8195.25

Km 4/000- 5/000

123.10

Cum

1008835

0.00

Km 5/000- 6/000

123.10

Cum

0

0.00

Km 6/000- 7/000

123.10

Cum

0

0.00

Km 7/000- 8/000

123.10

Cum

0

5356.19

Km 8/000- 9/000

123.10

Cum

659347

0.00

Km 9/000- 10/000

123.10

Cum

0

3052.88

Km 10/000- 11/000

123.10

Cum

375809

23171.16

Km 11/000- 11/375

123.10

Cum

2852370

5		Excavation for roadway in hard rock			
	0	Km 0/000- 1/000	388.63	Cum	0
	1474.08	Km 1/000- 2/000	388.63	Cum	572870
	1974.58	Km 2/000- 3/000	388.63	Cum	767379
	799.25	Km 3/000- 4/000	388.63	Cum	310613
	3330.35	Km 4/000- 5/000	388.63	Cum	1294274
	11375.9	Km 5/000- 6/000	388.63	Cum	4421016
	12735.01	Km 6/000- 7/000	388.63	Cum	4949208
	8770.69	Km 7/000- 8/000	388.63	Cum	3408552
	531.23	Km 8/000- 9/000	388.63	Cum	206452
	3151.98	Km 9/000- 10/000	388.63	Cum	1224953
	1358.28	Km 10/000- 11/000	388.63	Cum	527866
	0	Km 11/000- 11/375	388.63	Cum	0
6		Gravel Shoulder- Construction of Embankment			
	441.00	Km 0/000- 1/000	411.89	Cum	181643
	450.00	Km 1/000- 2/000	431.31	Cum	194090
	450.00	Km 2/000- 3/000	450.73	Cum	202829
	441.00	Km 3/000- 4/000	470.15	Cum	207336
	450.00	Km 4/000- 5/000	489.57	Cum	220307
	450.00	Km 5/000- 6/000	508.99	Cum	229046
	441.00	Km 6/000- 7/000	528.40	Cum	233024
	416.25	Km 7/000- 8/000	547.82	Cum	228030
	387.00	Km 8/000- 9/000	564.53	Cum	218473
	409.50	Km 9/000- 10/000	581.23	Cum	238014
	438.75	Km 10/000- 11/000	597.93	Cum	262342
	168.75	Km 11/000- 11/375	614.64	Cum	103721
7		Granular SubBase- Gr. III			
	335.67	Km 0/000- 1/000	1228.18	Cum	412263
	350.57	Km 1/000- 2/000	1248.27	Cum	437606
	350.09	Km 2/000- 3/000	1268.36	Cum	444040
	333.11	Km 3/000- 4/000	1288.45	Cum	429196
	348.42	Km 4/000- 5/000	1308.53	Cum	455918
	360.64	Km 5/000- 6/000	1328.62	Cum	479154
	340.25	Km 6/000- 7/000	1348.71	Cum	458899
	321.17	Km 7/000- 8/000	1368.80	Cum	439617
	306.29	Km 8/000- 9/000	1386.08	Cum	424542
	327.62	Km 9/000- 10/000	1403.36	Cum	459769
	340.13	Km 10/000- 11/000	1420.64	Cum	483202
	127.50	Km 11/000- 11/375	1437.92	Cum	183335
8		Water Bound Macadam- II			
	229.7	Km 0/000- 1/000	1524.52	Cum	350182
	240.42	Km 1/000- 2/000	1549.68	Cum	372574
	240.06	Km 2/000- 3/000	1574.85	Cum	378058
	227.78	Km 3/000- 4/000	1600.01	Cum	364450
	238.82	Km 4/000- 5/000	1625.18	Cum	388125
	247.98	Km 5/000- 6/000	1650.34	Cum	409251

	233.14	Km 6/000- 7/000	1675.51	Cum	390628
	220.07	Km 7/000- 8/000	1700.67	Cum	374266
	210.37	Km 8/000- 9/000	1722.32	Cum	362324
	225.24	Km 9/000- 10/000	1743.97	Cum	392812
	233.16	Km 10/000- 11/000	1765.62	Cum	411672
	87.19	Km 11/000- 11/375	1787.26	Cum	155831
9		Water Bound Macadam- III			
	229.7	Km 0/000- 1/000	1812.62	Cum	416359
	240.42	Km 1/000- 2/000	1837.79	Cum	441841
	240.06	Km 2/000-3/000	1862.96	Cum	447222
	227.78	Km 3/000- 4/000	1888.12	Cum	430076
	238.82	Km 4/000- 5/000	1913.29	Cum	456932
	247.98	Km 5/000- 6/000	1938.45	Cum	480697
	233.14	Km 6/000- 7/000	1963.62	Cum	457798
	220.07	Km 7/000- 8/000	1988.78	Cum	437671
	210.37	Km 8/000- 9/000	2010.43	Cum	422934
	225.24	Km 9/000- 10/000	2032.08	Cum	457706
	233.16	Km 10/000- 11/000	2053.73	Cum	478848
	87.19	Km 11/000- 11/375	2075.37	Cum	180952
10		Primer Coat			
	3062.70	Km 0/000- 1/000	64.51	Sqm	197575
	3205.65	Km 1/000- 2/000	64.51	Sqm	206796
	3200.85	Km 2/000-3/000	64.51	Sqm	206487
	3037.13	Km 3/000- 4/000	64.51	Sqm	195925
	3184.20	Km 4/000- 5/000	64.51	Sqm	205413
	3306.38	Km 5/000- 6/000	64.51	Sqm	213295
	3108.53	Km 6/000- 7/000	64.51	Sqm	200531
	2934.23	Km 7/000- 8/000	64.51	Sqm	189287
	2804.90	Km 8/000- 9/000	64.51	Sqm	180944
	3003.15	Km 9/000- 10/000	64.51	Sqm	193733
	3108.83	Km 10/000- 11/000	64.51	Sqm	200551
	1162.50	Km 11/000- 11/375	64.51	Sqm	74993
11		Tack Coat			
	3062.70	Km 0/000- 1/000	12.66	Sqm	38774
	3205.65	Km 1/000- 2/000	12.66	Sqm	40584
	3200.85	Km 2/000-3/000	12.66	Sqm	40523
	3037.13	Km 3/000- 4/000	12.66	Sqm	38450
	3184.20	Km 4/000- 5/000	12.66	Sqm	40312
	3306.38	Km 5/000- 6/000	12.66	Sqm	41859
	3108.53	Km 6/000- 7/000	12.66	Sqm	39354
	2934.23	Km 7/000- 8/000	12.66	Sqm	37147
	2804.90	Km 8/000- 9/000	12.66	Sqm	35510
	3003.15	Km 9/000- 10/000	12.66	Sqm	38020
	3108.83	Km 10/000- 11/000	12.66	Sqm	39358
	1162.50	Km 11/000- 11/375	12.66	Sqm	14717
12		Premix carpet			

		Cold Mix-Bitchem			
	3062.70	Km 0/000- 1/000	156.28	Sqm	478639
	3205.65	Km 1/000- 2/000	156.73	Sqm	502422
	3200.85	Km 2/000-3/000	157.19	Sqm	503142
	3037.13	Km 3/000- 4/000	157.64	Sqm	478773
	3184.20	Km 4/000- 5/000	158.09	Sqm	503390
	611.03	Km 5/000- 5/185	158.54	Sqm	96873
		Control Section			
	2695.35	Km 5/185- 6/000	153.59	Sqm	413979
	725.70	Km 6/000- 6/220	154.04	Sqm	111787
		Cold Mix-Hincol			
	2382.83	Km 6/220- 7/000	183.63	Sqm	437559
	2934.23	Km 7/000- 8/000	184.08	Sqm	540133
	2804.90	Km 8/000- 9/000	184.47	Sqm	517420
	3003.15	Km 9/000- 10/000	184.86	Sqm	555162
	3108.83	Km 10/000- 11/000	185.25	Sqm	575911
	1162.50	Km 11/000- 11/375	185.63	Sqm	215795
13		Seal Coat			
		Cold Mix-Bitchem			
	3062.70	Km 0/000- 1/000	64.94	Sqm	198892
	3205.65	Km 1/000- 2/000	65.09	Sqm	208656
	3200.85	Km 2/000-3/000	65.24	Sqm	208823
	3037.13	Km 3/000- 4/000	65.39	Sqm	198598
	3184.20	Km 4/000- 5/000	65.54	Sqm	208692
	611.03	Km 5/000- 5/185	65.69	Sqm	40139
		Control Section			
	2695.35	Km 5/185- 6/000	61.32	Sqm	165279
	725.70	Km 6/000- 6/220	61.47	Sqm	44609
		Cold Mix-Hincol			
	2382.83	Km 6/220- 7/000	77.27	Sqm	184121
	2934.23	Km 7/000- 8/000	77.42	Sqm	227168
	2804.90	Km 8/000- 9/000	77.55	Sqm	217520
	3003.15	Km 9/000- 10/000	77.68	Sqm	233285
	3108.83	Km 10/000- 11/000	77.81	Sqm	241898
	1162.50	Km 11/000- 11/375	77.94	Sqm	90605
14		Providing and Fixing Name Board			
	2.00		10000.00		20000
15		Providing and fixing Logo For PMGSY projects			
	6.00		5000.00		30000
16		Providing and Fixing Citizen Information Board			
	3.00		15000.00		45000
17		Providing and Fixing Maintenance Information Board			
	6.00		15000.00		90000
18		Providing and Fixing of Cautionary, Mandatory and informatory Sign board			

	108.00	90 cm Equilateral Cautionary Board	4750.00		513000
	102.00	60 cm Circular Sign board	4350.00		443700
	108.00	Chevron Signs 90 Cm octagon	6800.00		734400
	408.00	Reflectors	340.00		138720
19		Km Stone			
	11.00		1700.00		18700
20		Hm Stone			
	46.00		500.00		23000
21		Construction of Hard Bed- 4 Nos.			941982
22		Construction of Piped causeway- 14 Nos			16649629
23		Construction of Single Row RCC Pipe Culvert- 30 Nos			5433096
24		Construction of Double Row RCC Pipe Culvert- 3 Nos			835754
23		Construction of Retaining Wall			11898698
24		Preparation of Estimate			568750
25		Labour Welfare Fund 1%			1020015
26		Contingencies and other unforeseen items			9702
				Total	103600000


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