

# TTK CONSTRUCTON

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#### **PROFILE**

#### **About the Company:**

Our concern was established in 1980, under the proprietorship of Mr.T.Thanikodi. The hard work, sincerity and quality of service offered by the proprietor Mr.T.Thanikodi spurred the phenomenal growth of his Company. After achieving substantial growth, the company was converted from proprietorship to partnership firm named as 'TTK CONSTRUCTION' (for convenience of administration) in the year 2005. Mrs. T. Pavalakodi (wife of Mr.T. Thanikodi) Mr.T. Sivakumar & Mr.T. Rajavel Pandian (sons of Mr. T.Thanikodi) were inducted as partners and Mr.T. Thanikodi became the Managing Partner of TTK CONSTRUCTION. From the year 2006, M/s TTK CONSTRUCTION, has recorded considerable growth and in the last financial year has achieved a turnover in the excess of Rs. 337 Crores.

TTK Having pioneered a vibrant proposition into enterprise building four decades ago, TTK Construction today commands unexcelled expertise in infrastructure building at Madurai Tamilnadu state, entwined with rich technical prowess in the construction of RAILWAYS, ROADS, HIGHWAYS, BRIDGES, PWD WORKS, BUILDINGS and HUME PIPE MANUFACTURING UNIT Business multiplexes and so on.

Imbibing passion into the philosophy of excellence, a vision of vitalizing the nation's strength, TTK has restructured engineering professionalism in India, founding a prospective road map for a brilliant tomorrow. Going forward TTK intends to become one of South India's finest and greenest diversified infrastructure companies delivering outstanding value to our multiple stakeholders – clients, employees, partners and the local communities in which we work.

With a pan Indian presence, TTK's able management translates its vision, taking the company forward at a rapid pace as one of the fastest growing players in the field with dynamic and experienced team expanding horizons in Infrastructure, Energy, Ports, Reality and the South Indian Coastal Corridor while delivering consistent returns to all its stakeholders.

#### **Technical and Engineering Expertise**

TTK Construction, strive to achieve sustained, profitable growth by providing services which consistently satisfy the needs and expectations of our clients.

Our objective is to expand our presence, create a high class construction company, build strong partnership with clients by applying futuristic technology with an efficient and dedicated workforce to overcome the competitive challenges in the field.

A visionary management team, competent and well qualified professionals, efficient manpower, technologically superior plants and machinery, along with an operational code of conduct bearing the highest degree of professionalism across the entire organization, TTK is recognized as one of most revered premium infrastructure company across the South India.

The Group has consistently ensured its role in essaying the prominence in construction, infrastructure building and has portrayed a genuine image of national development through the myriad projects completing successfully within the time frame.

The meaning of excellence is illustratively demonstrated in some of the finest structures that TTK have created in the Tamilnadu state, enveloping the most novel engineering practices on par with the best infrastructure companies of the South India.



Narikulam Tank Construction at Madurai - Kanyakumari section of NH44 (Old NH-7) in the state of Tamil Nadu









Narikulam Tank Construction at Madurai - Kanyakumari section of NH44 (Old NH-7) in the state of Tamil Nadu



REGIOANAL OFFICER, MADURAI SITE VISIT AT DINDIGUL -THENI – KUMILI (NH183) PROJECT







#### **OUR INFRASTRUCTURESROADS**



TTK is well adopted and positioned in Indian Premium infrastructure space. TTK construction is fully integrated and geared to Design, Build, Install and operate within the required time frame, comprehensive solutions as a single point provider. A decentralized approach, the offices are widely distributed across different infrastructure projects in the country. Boosting practices that involve the use of the most current technologies in vogue worldwide ensures minimization of complex processes and ease constraining project execution labour.

TTK infrastructure is spread over with Highways & Bridge projects. Using highly sophisticated construction, earth moving and leveling equipment such as excavators, crushers, rollers, mixers, presses, pavers, compacters, broomers, Heavy duty scaffolding materials and advanced logistics, TTK commands the best of tools for effective and speedy execution of engineering,

#### **BRIDGE WORKS**

Major Bridge work across Narikulam Tank from Km 230.600 to km 231.250 in Madurai –
Kanyakumari section





Building bridges can be considered as one of the oldest innovative ideas for Effective communication with advancement of technologies, their utility and scope have also grown.

TTK has been in forefront in designing and constructing major and minor bridges. Several major bridges constructed by TTK stand as the most useful landmarks. The high bridge across river **Narikulam tank in Tamilnadu** state or the high level bridge at **Kanyakumari district** is one of our successful examples to read about.





TTK has undertaken construction of some of the largest and most complex bridges in India and has to its credit masterful achievements completed well within the time parameters set, and many before their scheduled time of the completion itself. This star attribute has resulted in TTK being the most sought after company for undertaking of mega bridge building projects across the length and breadth of our country.







#### **BRIDGE WORKS**



South Indian railways today, becoming one of the largest networks in the country. In the past few years, Indian Railways have registered an unprecedented turnaround in its fortunes that has helped launch itself towards a path of gigantic growth and development. Being the largest sector of Indian economy, the services sector continues to be the mainstay and key driver of the nation's overall growth.

TTK having essentially focused on Roads and Bridges is making significant forays into exploring further into this vast domain and is soon to announce major plans for making further inroads into this ever challenging sector. We aim to enter in to strategic alliances with world leaders to expand our capabilities and remain avant-garde of change.



TTK has undertaken construction of first generation railway lines and bridges for the Indian government and commands requisite expertise in undertaking similar ventures in spite of the scale of the assignments. From laying of railway lines across even difficult terrains, to the construction of major railway ROB bridges in Madurai - Bodi @ LC 17, Chennai - Trichy, Dindigul road Villupuram-Tiruchirapalli Section, Our company is venturing fast into this sector with renewed zeal as a competent player in view of the future transportation needs of the economy.







#### **SUB WAYS / VEHICULAR UNDERPASSES**

TTK Construction has a 20+ year commitment to delivering the highest quality construction services. This is in large part due to its stable and proven pool of talented engineering, estimating and construction professionals, supported by its highly experienced management team. The firm's formula for success has made it one of the subway projects Trichirapalli - Manamadurai section limited use subways in lieu of level crossing Nos.352, 353, 368,370,392,397 and 398 (7 Nos) under Southern Railway, 4 Nos Vehicular Underpasses at Karur District, 1 No Vehicular Underpasses at Villupuram District.



#### **CANALS**

The group of TTK is well equipped to face various challenges for constructing irrigation projects like canals, flood banks, other CD works. TTK Construction experience includes irrigation canal, and rehabilitation works. The stringent specifications and QA/QC requirements demand a first class contractor with the experience to complete these types of projects. Whether it's lined canals with armoured slopes, the careful placement of canal bund is required to ensure grade tolerances are met and compaction specifications are achieved.



Impact of Irrigation Increase in crop productivity Change in cropping pattern Helps Impact of

- i) Increase in cropping intensity Reduce in Irrigation Rural
- ii) Increase in gross and net income Poverty
- iii) Increase in farm employment
- iv) Increase in farm wage rate Public expenditure on improved irrigation and water conservation under poverty reduction programme









#### **READY MIX CONCRETE**



TTK Ready-Mix-Concrete is a carefully engineered recipe encompassing all the related considerations for a premium quality of concrete mix which are readily delivered to project sites. Our highly evolved understanding of construction technologies in infrastructure building ensures that the mix used is in every fathom consistent with worldwide construction standards.

Produced at all project plants for use in the project, TTK Ready-Mix-Concrete is sourced for use at minimum notice with a division of the most current mobile volumetric batching plants.

TTK ready mix concrete is produced based on the precise purpose of its use as different projects require varyingly different formulations for giving consistent strength to the structures being built.

Our ready mix concrete plants produce tonnes of concrete every day using premium raw materials and recommended ingredients and treated well by chemical engineers who ensure that the yield is thoroughly tested using most rigorous test methods for strength and versatility among any application that necessitates its use.



#### **READY MIX ASPHALT**



A major part of road construction anywhere in the country is normally completed with asphalt, which is a combination of asphalt oil, gravel and sand, heated and laid out on road surfaces. This usually lasts long as it is easy to perform repeated overlays on the road surfaces overtime. The initial cost of asphalt road construction is lesser than concrete. Further they are sound absorbing and have proved to be much quieter than concrete roads. They do not necessitate much hardening time unlike concrete roads and are ready within just a few hours time.

TTK manufactures all its asphalt mixes for road construction using hot mixing plants installed at all road construction project sites, using a careful blended formula, repeatedly tested for performance for each use. Each asphalt mix is designed based on the ground surface it is being used on, to provide the best surface which is both strong and long lasting bearing out even on the attributes of bad weather such as extreme heat, heavy rains, freezing temperatures and even excessive loads or traffic.

TTK hot ready mix asphalt is currently used in its own sites however is soon to be available as a commercially customized product for use by other civil construction agencies on a competitive pricing mechanism.







#### HIIME PIPE



#### **HUME PIPE**



TTK is a manufacturer/supplier of various classes of Hume Pipes for use in infrastructure projects for water supply systems, sewerage systems, pipe culverts and manifold related requirements for various public and private sector needs. Water Supply RCC Pipes, Casting RCC Hume Pipes, RCC Hume Pipes, RMT RCC Hume Pipes, Supply RCC Hume Pipes, Half Round RCC Pipes etc are all manufactured by TTK, processed through stringent quality controls at our manufacturing plant situated at **Jothi Nagar, Tuticorin.** 

TTK has been fabricating these structural implements chiefly for use in its infrastructure projects but is under active contemplation of producing them on a massive commercial scale. Made with the best composition of Reinforced Cement Concrete built around an armature of excellent metallic strength, our Hume pipes are designed to withstand the roughages of all kinds of use across a myriad range of utilities such as transfer of high pressure water, sewage, chemicals, oil etc. Further our Hume pipes are made per international specifications and are comparable with the best names in south India.

#### **HUME PIPE**



Hume pipes of TTK are cost effective, versatile in utility, customized in shapes and sizes ranging from **100 mm to 1600 mm**, come with a choice of rigid or flexible joints and are absolutely competitive.

Irrigation and water supply projects, drainage systems, liquid chemical systems, oil supplies or other mega projects involving the use of pipes find optimum benefits in the use of TTK Hume Pipes.

#### **OUR CLIENTS**

A growing list, the canvas of clients representing who's who in industry only proves the appreciation to our focus, dedication and quality cementing on a trust bestowed by our clients.

TTK has undertaken several State and Central Government Projects across India. Some of the clients are listed below:

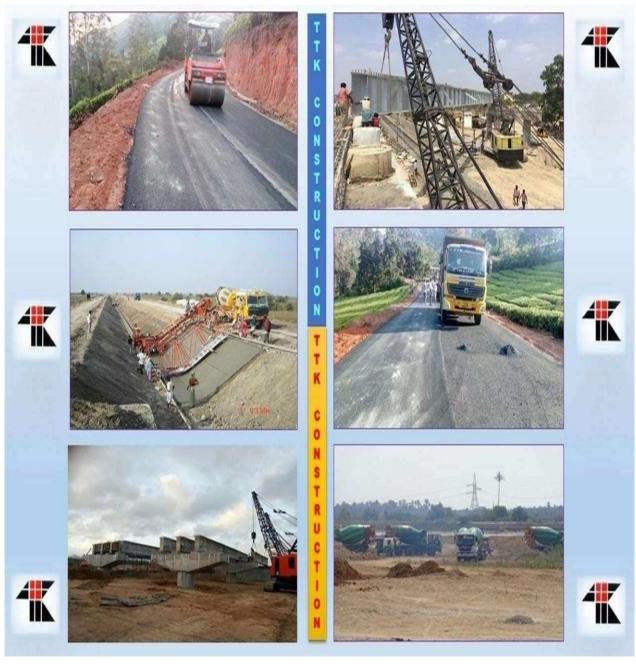
	Our Client List
MORTH Government of India	Ministry of Road Transport and Highways
भाग रामा	National Highways Authority of India
NOTA, DESCRIPTION OF THE PROPERTY OF THE PROPE	Ministry of Railways, Govt. of India
Tamilnadu public works department	Public Works Department, Govt. of Tamil Nadu
TN Highways Department Recruitment	Highways Department, Govt. of Tamil Nadu
SIPCO	State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT)











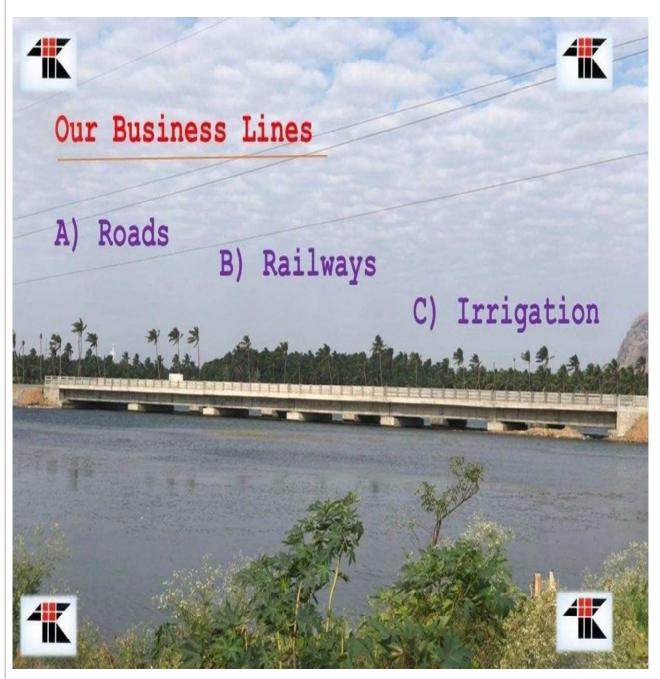
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SI No	Name of client	Name of project	Agreement value in Crores	Present status
1	National Highways Authority of India (NHAI), Govt. of India	Four Laning of left-over works including Additional Structures in Kerala/ Tamil Nadu Border - Kanyakumari from Km. 43.000 to Km. 96.714 of NH-47 in the State of Tamil Nadu through an Engineering, Procurement and Construction (EPC) Contract	1041.30	On-going
2	National Highways Authority of India (NHAI), Govt. of India	Balance work for Two Laning with paved shoulder of Dindigul – Theni section from Km 2.750 to Km 73.400 of NH-45 (Extn.) and Theni - Kumili section of NH-220 from Km 215.500 to Km 273.600 in the State of Tamil Nadu under item rate contract under back to back sub contract	317.20	Completed October - 2022
3	Divisional Engineer, National Highways, Madurai	Construction of ROB at km 22/2 of NH 49 Extn (New NH No 85) (Madurai – Cochin Road) & Railway chainage in km 19/2-3 in lieu of LC-17 between Vadapalanji & Usilampatti Railway Stations under Sethubharatham project on Engineering, Procurement and Construction (EPC) Basis contract.	43.72	Ongoing Project (80% Completed)
4	State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT)	Formation of Internal Roads (Road No: 1, 2, 3, 4, 5, 6 & 7) in Furniture Park at SIPCOT Industrial Park, Thoothukudi in Thoothukudi District	81.10	On-going (50% Completed)

Sl No	Name of client	Name of project	Agreement value in Crores	Present status
5	NHAI, PIU - Dindigul	Rectification of Black Spot TN-02 (287) by Construction of 6 Lane V.U.P at Km 349+770 on NH-7 (New no. NH-44) Karukkampatty, RE Wall & Retaining Wall approaches, 2 Lane Service Road (B/s), Reconstruction/Widening of Culverts etc. & Blackspot TN-02-596 by Construction of 4 Lane V.U.P at Km 290+153 on NH-7 (New no. NH-44) Semmadai, RE Wall & Retaining Wall approaches, 2 Lane Service Road (B/s), etc. in the State of Tamil Nadu on EPC Mode	37.44	Completed on December 2023
6	NHAI, PIU - Villupurm	Rectification of Black spot TN-091-03 by providing Permanent measures for construction of VUP (2x12x5.5m) at Km.133/650 (Kooteripattu junction) in Tindivanam to Ulundurpet section of NH-45 in the state of Tamilnadu on EPC Mode	28.10	Completed Feb 2024
7	National Highways, Salam Circle	Widening the existing 2 lane carriageway to 2 lane with paved shoulders from Km.49/8-70/0 of NH 544H strengthening from Km 54/0-56/0,57/2-59/2,61/0-62/0,63/0-64/0&66/8-68/6 including Reconstruction/ Construction / Widening of CD works, construction of Retaining wall, RCC drain, bus bays in Thoppur-Mettur-Bhavani-Erode road	47.23	Ongoing (85% Completed)

Sl No	Name of client	Name of project	Agreement value in Crores	Present status
8	National Highways, Salem Circle	Widening from two lane to four lane with paved shoulder in km 60/650-73/2 and strengthening in km 60/650 - 61/8, 62/8-63/4, 65/2-67/2, 67/6-70/0, 71/2-71/450 and 71/750 - 73/2 and only wearing course at km.61/8-62/8, 63/4- 65/2, 67/2-67/6, 70/0-71/2 including widening of minor bridges, construction of additional bridge at km.64/2, widening and reconstruction of culverts, construction of retaining walls and drain in built up areas in Musiri – Namakkal road (NH 381B) in the State of Tamil Nadu on EPC Mode	86.76	Ongoing (90% Completed)
9	Madhucon Infra Limited (NHAI), Govt. of India	Constructions of VUP at (i) TN-02-227 (Km.293+000 Perichipalayam) and (ii) TN-02-225 (Km. 297+000 Periyar Arch) towards permanent mitigation measures under COS. including Execution of Milling including Disposal, providing and applying tack coat and laying of Bituminous concrete in all respects of relaying works from Km 352+725 to 367+725 & Km 330+000 to Km 350+000 under TN(DK) Expressways Ltd	79.48	Completed Aug -2022
10	Madhucon Infra Limited (NHAI), Govt. of India	Design, Engineering, Finance, Construction Operation and Maintenance of Madurai - Tuticorin Section from Km.138+800 to Km.264+500 of NH-38(45B)in the state of Tamil Nadu	53.03	Completed (October 2021)

SI No	Name of client	Name of project	Agreement value in Crores	Present status
11	National Highways Authority of India (NHAI), Govt. of India	Construction of balance road across Narikulam tank from Km 230/700 to 231/250 of Madurai - Kanyakumari section of NH-7 in the state of Tamilnadu.	27.16	Completed (2019)
12	Highways, Govt of Tamilnadu	Widening from SL to IL and improvements in Km 25/0-35/0 of Chinnamanur – Iravangalar road (via) Megamalai including construction of culverts, Construction of gabion wall and construction of Park byes.	18.53	Completed (2018)

#### **MEN & MACHINERY**

Our employees are our most important resource in achieving our targets. To maintain a dynamic corporate culture driven by the values of quality, innovation and safety, we provide our employees with the most effective tools and technologies required to ensure our customers are completely satisfied with every stage of their working with **TTK Construction**. We have the talented and most experienced men working with us who always strive to make every day better that the previous and stand as an asset to the company.

For maintenance of machinery we have in-house procurement management policy which helps for timely procurement of spares and thereby reducing idleness of the equipment at work and thereby helps optimizing their efficiency. The machinery details are as follows

.No	Name of the machinery	No. of units	Make	Capacity
1	RMC Plant	5	Schwing stetter, Ajax	All CP-30
2	RMC Plant	1	Schwing stetter	M1 Plant
3	Hot mix plant (Andipatti)	1	Apollo ANP 2000	140 TPH
4	Hot mix plant (Tuticorin)	1	Apollo ANP1500	120 TPH
5	VSI Crusher	2	Puzzolona & Metso	200 TPH & 300 TPH
6	Paver	2	Voggle, Appollo	9m and 7m
7	Concrete mixers	5	Ajax	3 Cum
8	Transit mixers	35	Schwing stetter	6 Cum
9	Concrete Pump	3	Schwing stetter - 2, Putmeister - 1	-
10	Wheel loader	4	Volvo, hamm	-
11	Excavators	20	L&T, Kobelco, Tata Hitachi	Various
12	JCB	12	Backhoe Loader	-
13	Water tankers	10	Ashok Leyland, TATA	12000 Litr.
14	Taurus	50	Bharat Benz, Leyland, TATA	10m <sup>3</sup> & 12m <sup>3</sup>
15	Generator	25	Kirloskar	Various
16	Vibratory soil compactor & Tandem Roller	10	HAMM, VOLVO	8 Ton
17	Hume Pipe Making Machine (Tuticorin)	1	PAKONA	100 Pipes per day
18	Pneumatic tyred roller	2	Volvo	-
19	Bituminous sprayer	2	Ammann India Ltd	6000 Lit
20	Kerb laying machine	1	Ammann India Ltd	-
21	Grader	2	GMMCO	-
22	Hydra	9	Escorts	12-20 Ton
23	Tractors	15	Mahindra, Isuzu	-







#### Survey & Quality Control Equipments

Our company will maintain high quality and perfection. Quality control is a process through which a business seeks to ensure that product quality is maintained or improved. It requires the business to create an environment in which both management and employees strive for perfection

The Equipment details are as follows

#### **Survey Equipments**

S.No	Name of the Equipment	Make	No. of Units
1	Total Station with complete set	Leica & Sokkia	5
2	Auto Level with complete set	Sokkia	35

#### **Quality Control Equipments**

S.No	Name of the Equipment	Make	No. of Units
1	Proctor Moulds (Big) Coller or Base plate & Rammer 4.89 kg	RAMAAS	5
2	Proctor Moulds (Small) Coller or Base plate & Rammer 2.6 kg	RAMAAS	1
3	Atter Berg Limits Test(Apparatus)	RAMAAS	1
4	Soil Cone Penetrometer	RAMAAS	1
5	Proving Ring(50 KN)	RAMAAS	1
6	Proving Ring(30 KN)	RAMAAS	1
7	Proving Ring(2.5 KN)	RAMAAS	1
8	FSI JARS BOROSIL -100 ml	RAMAAS	30
9	CBR Testing Machine	RAMAAS	1
10	Sand Pouring Cylinders (100 mm Dia) Complete with Calibrating Container with Trays	RAMAAS	4
11	Sand Pouring Cylinders (150 mm Dia) Complete with Calibrating Container with Trays	RAMAAS	4
12	Sand Pouring Cylinders (200 mm Dia) Complete with Calibrating Container with Trays	RAMAAS	4
13	Rapid Moisture Meters	RAMAAS	4
14	Electronic Balance Capacity 60 kg (1 gram accuracy)	RAMAAS	2







#### Survey & Quality Control Equipments

S.No	Name of the Equipment	Make	No. of Units
15	Electronic Balance Capacity 30 kg (1 gram acuuracy)	RAMAAS	2
16	Electronic Balance Capacity 20 kg (1 gram acuuracy)	Icon	1
17	Electronic Balance Capacity 10 kg (1 gram acuuracy)	RAMAAS	1
18	Electronic Balance Capacity 600gram(0.01 gram acuuracy)	RAMAAS	2
19	Hot Air Oven (Big)250°C	RAMAAS	1
20	Direct Shear Test Apparatus	Icon	1
21	Compressive Testing machine(2000KN)	RAMAAS	2
22	Concrete Cube Moulds With Base Plate(10cm)	RAMAAS	12
23	Motor Cube Moulds (7.06cm) with Base Plate	RAMAAS	18
24	Motor Cube Vibrating Machine(12000 Rmp)	RAMAAS	2
25	Concrete Mixer Electrically Operated	RAMAAS	1
26	Cube Vibrating Machine (Big)	RAMAAS	1
27	Slump Cone Testing Appratus	RAMAAS	5
28	Vicat Needle Apparatus, with dash pot complete with set of needles and brass mould	RAMAAS	1
29	Soundness Testing Apparatus	RAMAAS	1
30	Trowels With Wodden Handles	RAMAAS	2
31	A I V Testing Machine	RAMAAS	1
32	Flakiness Index Test Guage	RAMAAS	1
33	Elongation Index Test Guage	RAMAAS	1
34	Density Basket	RAMAAS	1
35	Bulk Density Cylinder (5lt)	RAMAAS	1
36	Bulk Density Cylinder (15lt)	RAMAAS	1
37	Bulk Density Cylinder (30lt)	RAMAAS	1
38	Riffle Sampler Divider 25mm	Icon	1
39	Pycnometer Bottels ( 1000 ml)	RAMAAS	3







#### Survey & Quality Control Equipments

			Units
40	Specific Gravity & water absorotion test apparatus with Electronic balance	RAMAAS	1
41	Specific Gravity Bottels ( 50 ml )	RAMAAS	2
42	Specific Gravity Bottels ( 100 ml )	RAMAAS	2
43	Ring & Ball Apparatus ( Softening Point )	RAMAAS	1
44	Bitumen Penetrometer ( automatic)	RAMAAS	1
45	Marshall Stability Apparatus (set)	RAMAAS	1
46	Marshall Compaction Pedestal	RAMAAS	1
47	Marshall Compaction Rammer 4.53 KG	RAMAAS	3
48	Marshall Moulds (101.6 mm Dia )	RAMAAS	30
49	Breaker - glass 600 ml for ring and ball apparatus	RAMAAS	2
50	Bitumen Extraction Apparatus (centrifuge Type)	RAMAAS	3
51	Core Cutting Machine With Apparatus (set)	RAMAAS	3
52	Penetration cup 55x35 mm	RAMAAS	4
53	U tube viscometer size-12	Icon	1
54	U tube viscometer size-6	Icon	1
55	Filtering Flask 2000ml Borosil	Icon	1
56	Filtering Flask 5000ml Borosil	Icon	1
57	Specfic gravity Bottle 100ml	Icon	2
58	Hot Plates Electrical	RAMAAS	2
59	Rain Guage	RAMAAS	1
60	Depth gauge	RAMAAS	4
61	Sampling containers 100 gms	RAMAAS	150
62	3 Meter straight edge and measuring wedge	RAMAAS	1
63	Camber template board	RAMAAS	1
64	Hydrometer(05. to 2.0)	RAMAAS	2
65	Hume/RCC Pipe Testing Machine	Indus Engineering	2











Ready Mix Concrete Plant CP-30 & M1











VSI Crusher at Andipatti, Theni









Hot Mix Plant Located Andipatti, Theni & Kurukkusalai, Tuticorin



Quality Control Lab











Quality Control Lab











Hume Pipe Making Machine at Jothi Nagar, Tuticorin











Hume Pipe Making Machine at Jothi Nagar, Tuticorin









Embankment Grading



Embankment Rolling









GSB Laying



**Protection Work** 











RE Wall











VUP at Karur Dindigul Road NH-7



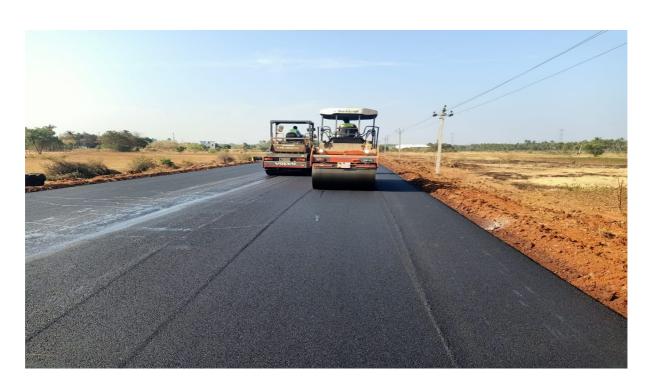




#### DINDIGUL-THENI-KUMILI-OVERLAYING



BC Laying



BC Rolling







### <u>MADHUCON INFRA LIMITED - OVERLAYING</u> <u>TN(DK) Expressways Ltd - KM.330+000 to KM.367+725</u>



Milling



BC Laying







### <u>MADHUCON INFRA LIMITED - OVERLAYING</u> <u>TN(DK) Expressways Ltd - KM.330+000 to KM.367+725</u>



BC Laying



**BC** Rolling







# Road Over Bridge in Lieu of Exg. LC No. 201 at KM: 271/0-1 between Ariyalur and Sillakkudi Stations.

Composite Girder - 1 X 44.0m and PSC I Girder - 2 X 31.0m











# Road Over Bridge in Lieu of Exg. LC No. 201 at KM: 271/0-1 between Ariyalur and Sillakkudi Stations.

Composite Girder - 1 X 44.0m and PSC I Girder - 2 X 31.0m











# Road Over Bridge in Lieu of Exg. LC No. 201 at KM: 271/0-1 between Ariyalur and Sillakkudi Stations. Composite Girder - 1 X 44.0m and PSC I Girder - 2 X 31.0m











### Road Over Bridge in Lieu of Exg. LC No. 17 at Madurai - Bodi between Vadapalanji and Usilampatti













Three Edge Bearing Testing Machine



Hydrostatic Testing Machine





