

TNSUDP
ENVIRONMENTAL SCREENING FORM

Name of the Borrower: Devakottai Municipality

Project location : Devakottai Municipal limits

Project : Providing BT Surface and Paver Block Pavement With SWD
and Culvert in Devakottai Municipality

Project Components				
Sl.no	Components	Details		
1	Brief description of the project proposal	Re-laying of existing BT road, Formation of New BT surface and Paver block surface and construction of storm water drain with culvert		
2	Number of project sites and Project components	71 Nos. For BT Road – GSB,WMM,DBM & BC For Paver block – GSB & Paver block 83mm thick with side herb wall For Drain- PCC 1:4:8,PCC 1:2:4 for side wall, Plastering 1:5 - 20 mm thick for vent portion For Culvert - PCC 1:2:4 for side wall , Plastering 1:5- 20 mm thick for vent portion, Steel fabrication and M20-Grade concrete		
3	Details of Alignment and Component	BT road & Paver block road with storm water drain & Culvert		
4	Location of the Project Sites & Current Use (Provide information for all sites involved in the project)	Within Municipal limit Roads		
Biological Environment				
Sl.no	Components	Yes	No	Details
5	Is the project adjacent to any of the following (Provide information for all sites and alignment of the project)		No	
(i).	Cultural Heritage site		No	
(ii).	Protected Area		No	
(iii).	Wet Land/ Mangrove/ Estuarine Region		No	
(iv).	Natural Forests		No	
(v).	Other Sensitive Environmental Components as listed in ESMF		No	
(vi).	Residences, schools, hospitals etc		No	
(vii).	Drinking water source, upstream and downstream uses of rivers etc		No	
(viii).	Lowlying areas prone to flooding / areas of Tidal Influence (CRZ)		No	

6.	Does the proposed project could cause the following			
(i).	Impact on Surrounding Environmental Conditions		No	
(ii).	Degradation of land / eco-systems		No	
(iii).	Loss or impacts on Cultural / heritage properties		No	
(iv).	Water Resource Problems		No	
(v).	Pollution of Water bodies / ground water		No	
(vi).	Cutting of Trees / Loss of Vegetation		No	
(vii).	Health & Safety Risks in the neighbourhood		No	
(viii).	Potential risk of habitat fragmentation due to the clearing activities? (eg. Hindrance to the local bio diversity like disturbing the migratory path of animals/ birds etc.)		No	
Physical Environment				
	Components	Yes	No	Details
7	Will the project affects the River flow pattern, stream pattern or any other irrigation canal?		No	
8	Water quantity? Estimated usage of water quantity for the project		No	
9	Estimated energy consumption for the project activities		No	
10	Any other resources proposed to be utilized for project activity? (eg., ground water)		No	
Geology / Soils				
	Components	Yes	No	Details
11	Does the project activity involve cutting and filling/ blasting etc...?		No	
12	Will the project cause physical changes in the project area (e.g., changes to the topography) due to excavation, earthwork etc...?		No	
13	Will the project involve any quarrying/ mining etc?		No	
Pollution				
	Components	Yes	No	Details
14	Will the project use or store dangerous substances (e.g., large quantities of hazardous chemicals/ materials like Chlorine, Diesel, Petroleum products etc...)?		No	

15	Will the project produce solid or liquid wastes?		No	
16	Will the project cause air pollution or increase in emission of pollutants?		No	
17	Will the project generate or increase noise?		No	
18	Will the project generate water pollution (water bodies/ groundwater)?		No	
19	Will the project cause construction Hazard to workers/ residents		No	
20	Is there a potential for release of toxic gases or accident risks		No	
Environmental Enhancement Measures				
	Components	Yes	No	Details
21	Has the Project design considered the following?		No	
(i).	Is the project design considering energy conservation measures/ energy recovery options?		No	
(ii).	Is the project considering waste minimisation or waste reuse/recycle options?		No	
(iii).	Has the project design considered RWH or any other environmental enhancement measure?		No	
(iv).	Has the project design considered extreme events, drought, flood, natural disasters?		No	
General				
22.	Please indicate whether any other features of the project that could influence ambient environment		No	
23	Has any consultation with the public or stakeholders been conducted?		No	

Date: _____


 (M. Jeyaraj)
COMMISSIONER 1/2
DEVAKOTTAI MUNICIPALITY

Signature and name of the Borrower

Enclosures: (Provide maps with the geographical location of the project; and an appropriately-scaled map clearly showing the project area and project sites with land use, existing buildings, infrastructure, vegetation, adjacent land use, utility lines, access roads and any planned construction, as required).

**TNSUDP
Environmental Screening Report**

- 1. Project Town: Devakottai**
- 2. Sub-Project: Improvements of Roads**
- 3. Brief Introduction & Background**

History of Town

Devakottai is the principal residence of nattukottai Chettiyars. The tamil meaning of Devakottai was "Devi" Goddess and "fort" Kottai. Devakottai was constituted in the year 1937 and subsequently up graded as grade First Municipality from 1998

Town Profile

Devakottai is one of the oldest municipality constituted in the year of 1937 as Third Grade Municipality (As per Local Self Government G.O.No.4698,Dt.27.10.1936) Then elevated to Second Grade Municipality in 1978 (As per Local Self Government G.O.No.1677,Dt.28.10.1978) and upgraded to First Grade Municipality in 1998 (As per Municipal Administration and Water Supply Department G.O.Ms.No.85,Dt.22.05.1998)

Location

Devakottai the town is located in Sivagangai District. It lies 103 km Madurai and 120 Km North of Trichy. The town is Geographically located 78° 40' east latitude and 9 37' North Longitude. The main roads radiating from the town lead to Karaikudi and Pudukottai on the north and Ramanathapuram on the South.

The Project Objectives and Need

In Devakottai Municipality , 95.690 Km length of Various category of roads provided and maintained. Now all the roads are in very bad condition since no improvement work had done in the last 6 to 10 years. Recently distribution mains were laid under Water Supply Improvement Scheme under IUDM scheme and the roads were not re-laid. Besides the roads damaged due to rain were also not re-laid. Therefore it is necessary to re-lay the above damaged roads by improving the and improve the same to present traffic intensity. Due to the above reasons, most of the roads are badly damaged.

The proposed roads are damaged by laying of water supply improvement scheme, water supply House Service Connections and Natural calamities etc., Due to Laying of HSC Pipes, the stretch of these streets has worsened passing inconvenience by vehicular traffic to public movement. This street is playing vital role in the vehicular movements and serves as important and frequently used by the residents of this Municipality. Hence the people and the elected representatives have requested to improve the road to present traffic conditions.

It is proposed to re-lay the above roads such that, roads having width above 4.00 meters are proposed to be laid as Black Topped and below 4.00 meters are proposed to be laid as Paver block Pavement according to the needs and utility as per site conditions. Near at 45.00 Km length of damaged roads, about 12,780 KM length of roads have been improved in the previous year by various schemes. Now 20.020 KM length of roads to be proposed for improvement. The Proposed roads are grouped into 5 packages for improvement under TNSUDP - 2020-2021 scheme at an estimated amount of Rs.1140.00 Lakhs.

4. Proposed Project

Salient features and Description of the proposed activities.

Length of roads

1. *BT Roads Improvements – 18.180 Km*
2. *Providing Paver Block – 1.840 Km*
3. *Length of SWD – 2.30 Km*

S.No	Name of work	Description
1.	Providing B.T Surface using CMP paver machine with Storm water drain and RCC culvert @ ward no. 1, Ram nagar 3rd street ,Ram nagar 2nd street cross,Ram nagar I st to 4th street and cross ,Ram nagar 4th street to 6th street cross (EB sub station),Alagapuri nagar 5th st,Alagapuri nagar cross st,Alagapuri nagar (Park back side),Sanjeevi puram road and cross,ward no. 2,Somasundaram nagar cross st, Thanicha oorani Burma colony main and cross road, New housing board road,Thancha Oorani cross road in Devakottai Municipality.	<p>Road Length – 4.495 KM. Existing Width - 4.50 & 4.10 M. Proposed width - 4.50 & 4.10 M. Estimate Amount Rs. 260.00 Lakhs.</p> <p><u>Description of Proposed Road :</u></p> <p>1) The existing damaged surface is to be picked and levelling to required camber and providing 150mm thick Wet Mix Macadam . Over WMM it is proposed to provide Dense Bituminous Macadam of 50mm thickness and Bituminous concrete of 30mm thickness.</p> <p>2) Construction of C.C. drain to a Length of 0.510 KM and Vent of drain 0.45 M wherever necessary .</p> <p>3) Four new Culverts is proposed to a Length of 4.50 M , 2.10 M Width.</p>
2.	Providing B.T Surface using CMP paver machine with Storm water drain and RCC culvert @ ward no. 2,Thancha oorani cross road, Panipulanvayal road ,Cross road, Thirupattur road cross road (Near TVS Show room), Thirupattur road cross road (Kanchi periyavar nagar), Jeyamkonda vinayagapuram road,Ward no.3, Annasalai East 4th cross road, Vivekananthapuram East ,Thirupattur road cross(Muthuraj nagar), Thirupattur road cross (Opp.NSMVPS), Ward no. 11, Corporation road Extention and cross and Corporation road (Thayamangalam kovil road) in Devakottai Municipality.	<p>Road Length – 4.520 KM. Existing Width - 4.50 & 4.10 M. Proposed width - 4.50 & 4.10 M. Estimate Amount Rs. 263.00 Lakhs.</p> <p><u>Description of Proposed Road :</u></p> <p>1)The existing damaged surface is to be picked and levelling to required camber and providing 150mm thick Wet Mix Macadam . Over WMM it is proposed to provide Dense Bituminous of 50mm thickness and Bituminous concrete of 30mm thickness.</p> <p>2)Construction of C.C. drain to a Length of 0.290 KM and Vent of drain 0.45 M wherever necessary</p> <p>3)Three new Culverts is proposed to a Length of 4.50 M & 2.10 M Width.</p>

3.	<p>Providing B.T Surface using CMP paver machine with Storm water drain and RCC culvert @ Ward no.4, Sri Rengapuram East and cross road, Yogiram surathkumar nagar road and cross,Avarankadu Extention area ,Ward no. 5, Natarajapuram 1st street,Natarajapuram school road, ward.6, Eravuseri pathai cross road,Ward no. 11,Valliappa chetti oorani South and east street,Manthoppu street road,Manthoppu street cross road ,Gnanananthagiri nagar main and cross road and Saraswathi wasaha salai cross street in Devakottai Municipality.</p>	<p>Road Length – 4.600 KM. Existing Width - 4.50 & 4.10 M. Proposed width - 4.50 & 4.10 M. Estimate Amount Rs. 255.00 Lakhs.</p> <p><u>Description of Proposed Road :</u></p> <ol style="list-style-type: none"> 1) The existing damaged surface is to be picked and levelling to required camber and providing 150mm thick Wet Mix Macadam . Over WMM it is proposed to provide Dense Bituminous of 50mm thickness and Bituminous concrete of 30mm thickness. 2) Construction of C.C. drain to a length of 0.420 KM and Vent of drain 0.45 M wherever necessary . 3) One new Culvert is proposed to a length of 8.00 M length & 2.70 M Width and Four new Culverts is proposed to a Length of 6.00 M length & 2.10 M Width
4.	<p>Providing B.T Surface using CMP paver machine with Storm water drain and RCC culvert @ Ward no. 5,Nehru street cross,Ward no. 7,Dharmamuneeswarar street , Ward no. 8,Sivankovil East and south street ,Ward no. 9,Poosaikara natchiappan cross street ,Ward no. 13, Anna nagar 1st street and cross street,Ward no. 17,Arunachalapoigai oorani around road ,Ward no. 18,Vattanam road cross (Andavar Medical), Ward no. 19,Mulakkottu street, Ward no. 21 Chidambaranathapuram east cross,Ward no. 22, Jeevanagar road,Ward no. 23, Nithyakalyanipuram West and cross,Ward no. 24, Kailasanathapuram west cross road,K.VR.RM street ,P.L.S oorani South and East road,ward.27,Thalambal nagar , Kattuoorani pathai in Devakottai Municipality.</p>	<p>Road Length – 4.565 KM. Existing Width – 4.50 & 4.10 M. Proposed width - 4.50 & 4.10 M. Estimate Amount Rs. 250.00 Lakhs.</p> <p><u>Description of Proposed Road :</u></p> <ol style="list-style-type: none"> 1)The existing damaged surface is to be picked and levelling to required camber and providing 150mm thick Wet Mix Macadam . Over WMM it is proposed to provide Dense Bituminous of 50mm thickness and Bituminous concrete of 30mm thickness. 2) Construction of C.C. drain to a length of 0.280 KM and Vent of drain 0.45 M wherever necessary . 3) Two new Culverts proposed to a Length of 6.00 M & 2.10 M Width.

5.	Providing Paver Block pavement with Storm water drain and RCC culvert to Ward . 2, Thanicha Oorani cross , Panipulan vayal cross, Ward.3, Anna salai East 3rd street,Vivekanatha puram East street,Anna salai cross,Vivekanatha puram North cross street,Ward.4,Renganna st cross,Ward.5,Vaithiyalingam cross street, ward.9,Sammanthar street cross road, Ward.11,Ganananthagiri nagar cross street ,Ganananthagiri nagar cross street (Sai baba colony) ,Saraswathi wasaha salai cross street,ward.12,Tiruppathur road cross (Near Buvaneshwari Amman Kovil),ward.23,Krishnaraja puram east cross,Ward.25,Thenammai Oorani south street and Ward.27,Athangarai cross street in Devakottai Municipality.	<p>Road Length – 1.840 KM. Existing Width - 4.00,3.75 & 3.50 M. Proposed width - 4.00,3.75 & 3.50 M. Estimate Amount Rs. 112.00 Lakhs.</p> <p><u>Description of Proposed Road :</u></p> <p>1) The existing damaged surface is to be picked and levelling to required camber and providing 150mm Granular Surface Base and 150mm Stone Dust . Over Stone Dust provide Supplying and Laying Rubberised interlocking Paver Block of 83mm thickness using M 40 grade concrete.</p> <p>2) Construction of C.C. drain to a length of 0.800 KM and Vent of drain 0.45 M wherever necessary .</p> <p>3) One new Culvert is proposed to a Length of 4.50 M and 1.50 M Width.</p>
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1. Environmental Screening

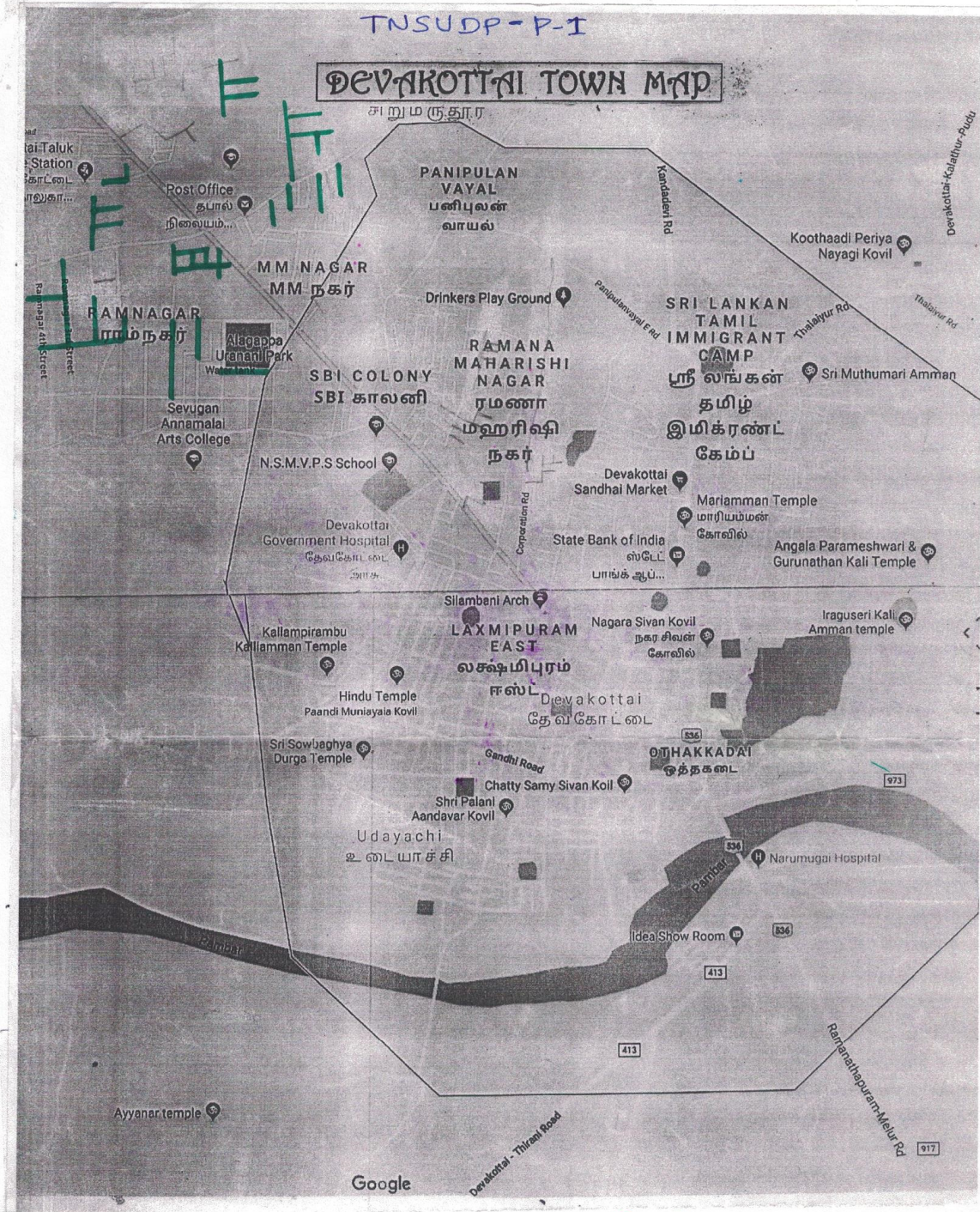
Municipal schools, Private schools, All Religious Temples and Ooranies are situated along the above identified proposed roads under this scheme. However the improvement works are restricted only to the existing width within the ROW and management measures will be followed during construction. Hence no impacts are anticipated on the nearby features from the proposed activities.

In the Proposed roads there is no need for cutting any tree and also no need for demolition of existing drains and disposal of them.

2. Permissions/ Clearances

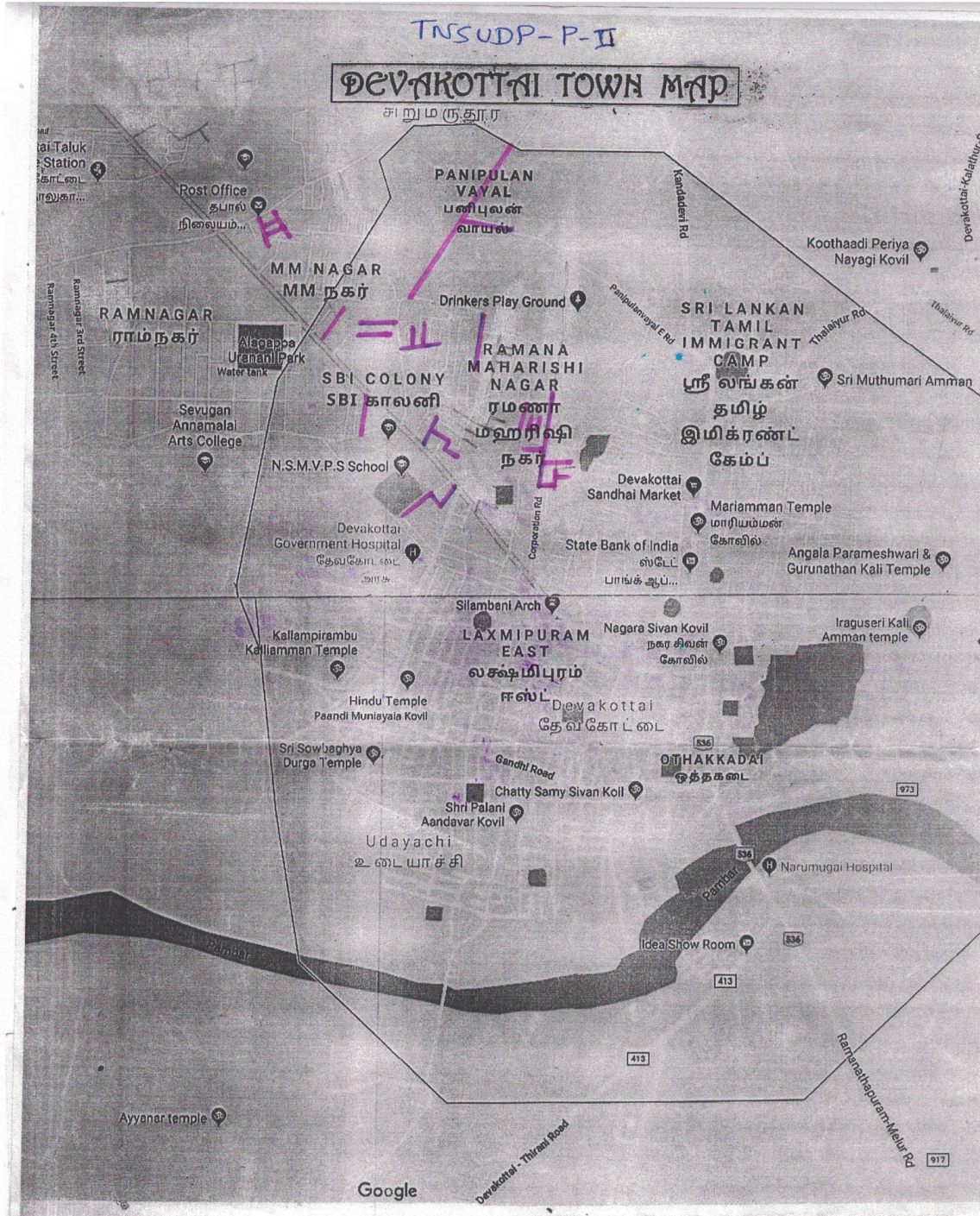
All the roads belong to Devakottai Municipality. There is no need of permissions obtained from other departments like PWD, Forest, TNPCTS , CRZ, ASI etc...

(Signature)
20.8.2020
(B. AYYANAR)
Commissioner
Devakottai Municipality




 OVERSEER
 DEVAKOTTAI MUNICIPALITY.


 MUNICIPAL ENGINEER
 DEVAKOTTAI MUNICIPALITY.

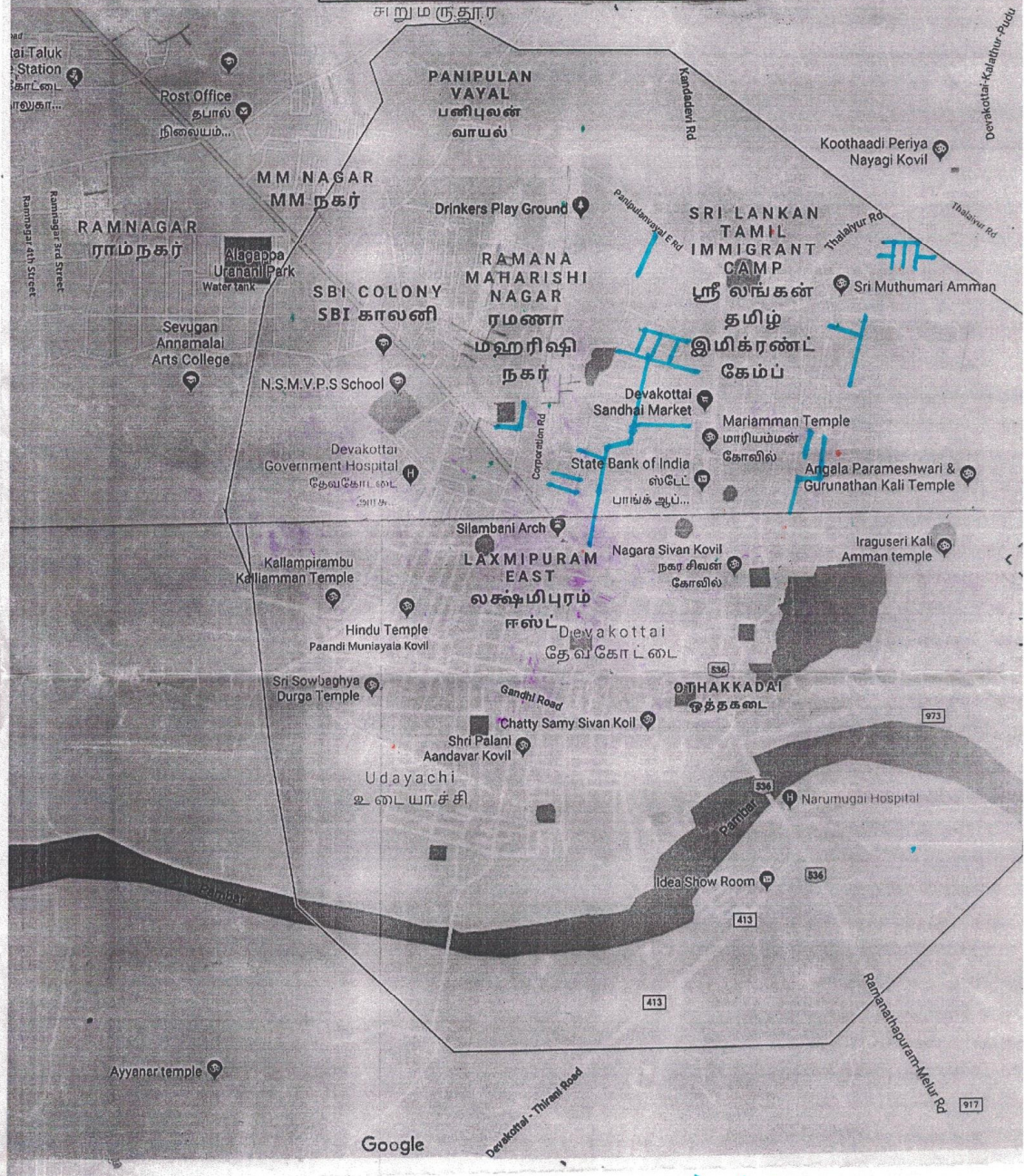



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 MUNICIPAL ENGINEER
 DEVAKOTTAI MUNICIPALITY

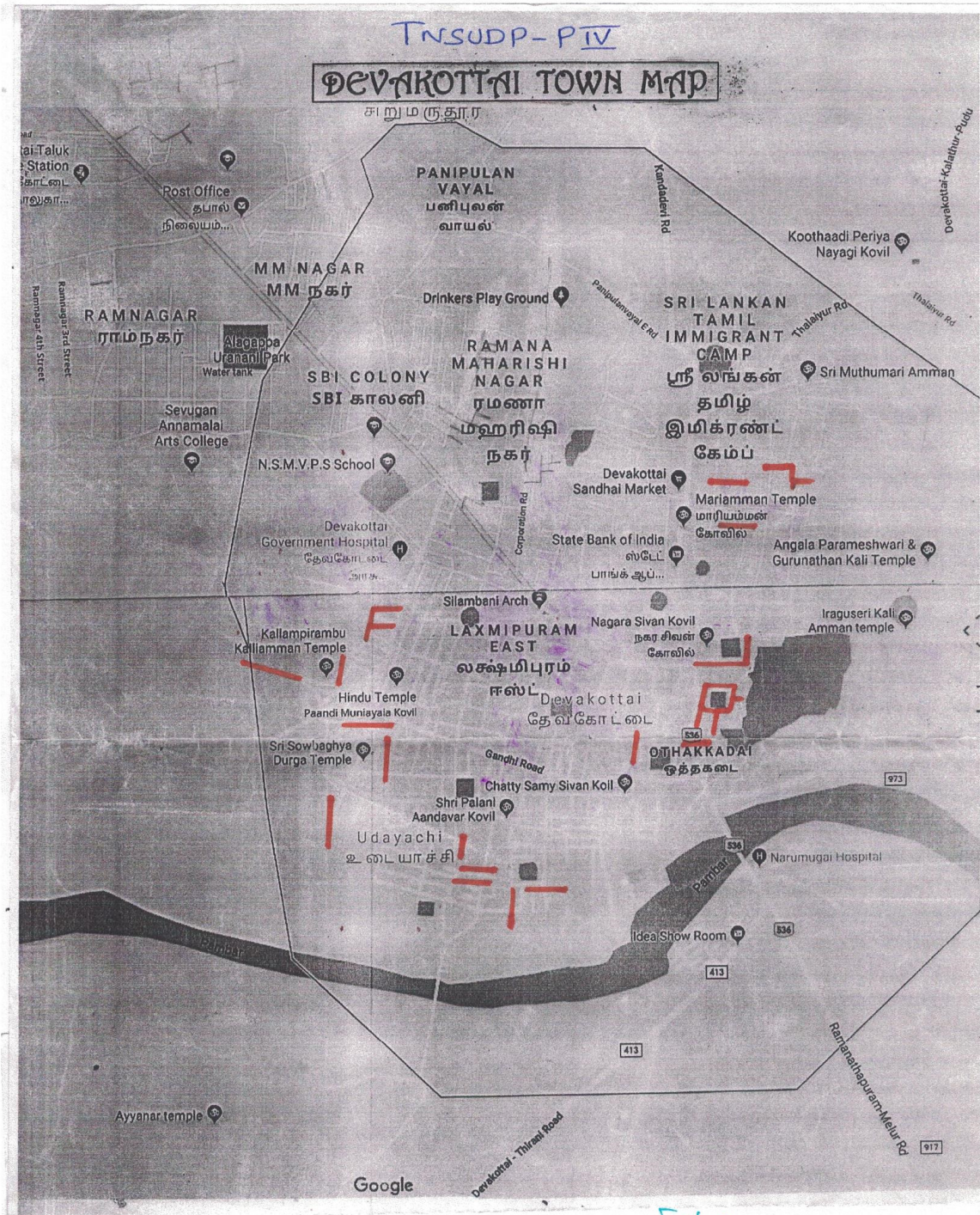
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DEVAKOTTAI TOWN MAP



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