

VERSION DATE: 24/01/2024 Region: VISAKHAPATNAM REGION Authority: VISAKHAPATNAM METROPOLITAN REGION DEVELOPMENT | Land Use Zone: Residential use Zone TLP No.: 1167/0081/LP/VMRDA/2023 Main Abutting Road Width: 12 If Plot is abutting to Highway: No Application Type: GeneralProposal Plot No: NA Survey No.: 6/2P, 7/2P Project Type: Open Layout Nature of Development: New Road-2 12MWIDE Village Name: Ramavaram Internal 100.00 162.56 8.00 9.14 - 17.78 Internal 100.00 143.93 8.00 9.14 - 15.70 AREA OF PLOT (Minimum) Road-2 NET AREA OF PLOT | Internal | 100.00 | 134.66 | 8.00 | 9.14 | - | 14.73 | - | 9.14 | Deduction for Balance Plot Area Road-2 12MWIDE | Internal | 100.00 | 129.54 | 8.00 | 9.14 | - | 14.16 | - | 9.14 | BALANCE AREA OF PLOT Road-2 LTP NAME AND SIGNATURE | STRUCTURAL ENG NAME AND | BUILDER NAME AND SIGNATURE | Internal | 100.00 | 124.82 | 8.00 | 9.14 | - | 13.65 | - | 9.14 | Sai Srinivasa Ventures REG/1167/DEV/0079/2022 Road-2 Internal 100.00 166.12 8.00 12.19 - 13.62 Road-2 12MWIDE Internal 100.00 127.03 8.00 9.14 - 13.88 - 9.14 Road-2 | Internal | 100.00 | 131.94 | 8.00 | 9.14 | - | 14.43 | - | 9.14 | Land use analysis/Area distribution (Table 2c) Road-2 Internal 100.00 137.00 8.00 9.14 - 14.98 - 9.14 Road-2 | Internal | 100.00 | 131.15 | 8.00 | 9.14 | - | 14.34 | - | 9.14 | Road-2 12MWIDF Public Open Space | Internal | 100.00 | 112.65 | 8.00 | 9.14 | - | 12.32 | - | 9.14 | | Internal | 100.00 | 143.32 | 8.00 | 12.19 | - | 11.48 | - | 12.19 | Land Area to Mortgage Details | Internal | 100.00 | 192.24 | 8.00 | 12.19 | - | 15.77 | - | 12.19 | Road-2 | Internal | 100.00 | 176.62 | 8.00 | 9.14 | - | 19.52 | - | 9.14 | Road-2 Internal 100.00 182.16 8.00 9.14 - 19.92 - 9.14 | Internal | 100.00 | 181.30 | 8.00 | 9.14 | - | 19.83 | - | 9.14 | Road-2 | Internal | 100.00 | 230.19 | 8.00 | 16.81 | - | 11.81 | - | 10.14 | Internal 100.00 237.50 8.00 12.29 - 15.24 - 14.77 Road-2 Internal 100.00 139.35 8.00 9.14 - 15.24 - 9.14 Road-2 Internal 100.00 139.35 8.00 9.14 - 15.24 - 9.14 Internal 100.00 139.35 8.00 9.14 - 15.24 - 9.14 | Internal | 100.00 | 181.31 | 8.00 | 12.24 | - | 12.19 | - | 9.19 | LTP is responsible for any misrepresentation in above aspects. 2 Splay shall be maintained as per GO.MS.No.275. MA & UD dt. 18-07-2017 in all the road corners. | Internal | 100.00 | 181.26 | 8.00 | 12.24 | - | 12.19 | - | 9.19 | | Internal | 100.00 | 139.35 | 8.00 | 9.14 | - | 15.24 | - | 9.14 | 28 12MWIDE | Internal | 100.00 | 139.35 | 8.00 | 9.14 | - | 15.24 | - | 9.14 | | Internal | 100.00 | 139.35 | 8.00 | 9.14 | - | 15.24 | - | 9.14 | | Internal | 100.00 | 139.35 | 8.00 | 9.14 | - | 15.24 | - | 9.14 | Internal 100.00 139.35 8.00 9.14 - 15.24 - 9.14 Road-2 | Internal | 100.00 | 181.35 | 8.00 | 12.24 | - | 12.19 | - | 9.19 | Internal 100.00 270.97 8.00 15.08 - 15.24 - 15.08 | Internal | 100.00 | 139.35 | 8.00 | 9.14 | - | 15.24 | - | 9.14 | Internal 100.00 139.35 8.00 9.14 - 15.24 - 9.14

Internal 100.00 385.75 8.00 18.34 - 18.29 - 15.29

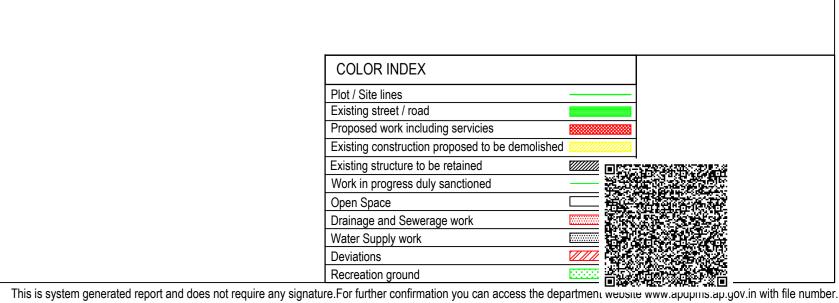
| Internal | 100.00 | 167.23 | 8.00 | 9.14 | - | 18.29 | - | 9.14 |

TLP NO.1167/0081/LP/VMRDA/2023 | SHEET NO. | 1 | DATE | 04-02-2024

Project Title: PLAN SHOWING THE PROPOSED OPEN PLOT LAY OUT IN Sy.

Nos.6/2P & 7/2P OF RAMAVARAM VILLAGE, ANANDAPURAM MANDAL, VISAKHAPATNAM DISTRICT. LAND BELONGS TO :-M/s. SAI SRINIVASA

VENTURES, Rep. By Its managing partner Sri. K. JAGANNADHAM.



Accuracy of Scrutiny Report and Drawing is subject to accuracy of end-user provided data, 3rd party software/hardware/services, etc. We are not liable for any damages which may arise from use, or inability to use the Application.

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ANNEXURE - I

INFRASTRUCTURE TO BE PROVIDED AND SPECIFICATION IN THE LAYOUT AREA:

- I. The following services should be provided by the layout owner.
 - A. Municipal Corporation/Municipal Area/Non-Municipal Areas (Gram Panchayats):
 - 1. Bitumen surface roads with Water Bound Mecadum road (WBM).
 - Pucca Masonry drain/RCC drain including load drain and drainage system in arrangement with Municipal Corporation/Municipality/Gram Panchayat/near by outlet.
 - Protected Water supply arrangement with Municipal Corporation/Municipality/ Non-Municipality or borewells with internal water supply system by the layout owner.
 - Street electrification arrangement with Municipal Corporation/Municipality or by the layout owner.
 - 5. Rain harvesting structures in open space/parks.
 - The open spaces shall be enclosed with a minimum of 2'-0" height basement wall and over that 2'-0" height grills or Brick masonry.
 - 7. Avenue plantation.

II. Specifications:

Shall confirm to the detailed guidelines detailed in Annexure-II.

ANNEXURE - II

Guidelines for taking up Development works Engineering Designs & Construction:

GENERAL REQUIREMENT:

1. General:

This section of Engineering guidelines for layout development have been compiled on outline VUDA's general procedure and practices in respect of the Engineering works for the development of land and providing infrastructure facilities within the jurisdiction of VUDA.

The following guidelines have been prepared in order to facilitate the efficient, processing of Engineering drawings, submissions and construction approvals for release of Final Layout Plan. Applicant should be aware that each requirement to be treated on its merits and that approval is dependent on the overall impact of the development of the area and not solely in compliance with minimum Engineering standards.

It is the responsibility of the applicant to on ensure that all works are carried out in a sound efficient workmen like manner and in accordance with sound engineering practice and principle and are completed in accordance with the approved Engineering Drawing and specifications.

Before the applicant commencing the Civil Engineering works, Engineering drawings are to be submitted and approved by VUDA. After obtaining the approval and any consent required in writing from statutory authority and adjoining property owner if applicable the applicant may construct the roads, drains and all other improvement works.

1. EARTH Work:

2.1 Removal of Trees.

The applicant is advised that no trees are to be removed without VUDA permission.

Removal of trees is limited to those directly affected by road and/ or drainage construction or as specified herein. Trees which are considered to be dangerous or may damage any part of the road, proposed road or public place, drainage structure or any public utility installation, or may affect visibility, shall be removed or trimmed.

Trees and / or shrubs to be retained are to be adequately protected at all times and particulars care shall be taken to avoid damage in the roots, trunks and branches.

1.2 Clearing and Grubbing:

For the full area of the site specified or shown on the drawing the prescribed materials, being fences, concrete and / or brick foundations and / or floors, structures of all descriptions, trees, shrubs, scrub, stumps, logs, boulders and roots, except those fences, structures, trees, shrubs and / or items shall be cleared and / or wholly grubbed and shall be disposed of in accordance with the provisions of section 3.3.

1.3 Disposal of material:

All material cleared and / or grubbed in accordance with these guidelines shall become the property of the applicant and shall be removed from site and disposed of in an / appropriate manner.

The burning of materials is prohibited.

1.4 Stripping of Topsoil

The topsoil is to be stripped from the construction area to a depth specified on the approved Engineering drawings, or as directed by VUDA stockpiled and replaced or as directed by VUDA stockpiled and replaced upon the earth works at the completion of the construction and / or spread over those areas of the site indicated on the approved Engineering drawings appropriate erosion and sediment control measures are to be implemented for stockpile sites and those areas where topsoil has been replaced.

1.5 Unsuitable Material / Improper Works;

Following the stripping of topsoil and before any excavation, filling or other works commenced any underlying material which is unsuitable for the placing of filling or as a sub-grade material shall be removed and disposed of, has directed, to an approved site.

If at any time during the progress of the work VUDA Engineering (Quality control cell of VUDA) is of the opinion that any material of work whether fixed or not, is of inferior or improper nature, he may direct, in writing, the removal or amendment of the same by the applicant, not withstanding that he may previously have expressed satisfaction in regard there to and the removal or amendment of the said material or work shall be done.

1.6 Embankments

Embankments shall be constructed from approved sound material placed in horizontal layers not greater than 150mm in thickness loose measurement and shall be compacted to give a density ratio or at least 95% standard as per the MDST / IRC specification where the cross slope of the natural surface is steeper than one (1) vertical, in four (4) horizontal, the base of the entire embankment shall be stopped and roughened to prevent slipping, and benched to hold the top of the embankment, before an existing to give a bond with new material.

1.7 Catch Drains / Table Drains:

On the top side of cuttings catch drains shall be provided with a cross-sectional area not loss than 0.2 Square meters. Side slopes not steeper than adjacent road hotter and a minimum depth of 300mm over a width of at least 300mm. The minimum gradient of catch drains shall be 1:100. The catch drain shall be located a minimum 2.5 mtrs from the edge of the cutting.

Where the grade of the catch drain exceeds 6% scour protection shall be provided. The type of scour protection provided shall be sufficient in completely restrict scour.

Proper outlet drains shall be provided leading to culverts and in earth cuttings pitching of the outlet drain is to be provided to prevent scour.

The applicant may construct an embankment not less than 500mm high, 300mm wide on top with 2.1 slopes in lieu of cutting catch drains.

Table drains, when necessary shall be aligned and graded parallel to the shoulders of the roadway and diverted at intervals not exceeding 150 metres into culverts, side drains for water sources.

Where grade of the table drain exceeds 6% scour protection in the form of concrete lined drain to kerb and gutter shall be provided.

2. Section Road works:

3.1 General:

The road pavement is to be designed in accordance with MDST/IRC specifications.

The road pavement shall be constructed on the sub-grade or sub-base in uniform layers to provide the specified pavement thickness. No individual layers shall be more than 200mm or less than 100mm compacted thickness. Each layer of the pavement shall be finished by slurry in to give smooth surface conforming to the design.

3.2 Sub-base course:

In all cases except in cut in rock or hard gravel strata the sub-base shall be formed with Quarry Rubbish of minimum 230mm thick including consolidation with 8 to 10 tonnes road roller including sectioning to camber and gradient trimming side slopes etc. The sub-base material shall have the properties / specifications as per MDST.

3.3 Base course:

Base course is proposed in two layers each 100mm thick (loose) compacted to 75mm thick each. The base course material shall satisfy the requirements of MDST/IRC.

- a) 1st Layer provide WBM using 65mm size HB OTG metal (IRC) spread 100mm thick loose compacted to 75mm thick using 25% of gravel to blindage including sectioning to camber and gradient and consolidation with 8 to 10 tones capacity Power Roller.
- b) 2nd Layer providing WBM road by spreading 63 to 45mm HBG GR-II Metal (I.R.C./ MDST) to compacted thickness of 75mm using 25% of gravel for blindage including sectioning to camber and gradient and consolidate with 8 to 10 tonnes power roller and wetting the consolidation for a period of fortnight etc,.

3.4 Wearing Course:

a) B.T. Carpet:

Providing B.T. carpet 20mm thick using 0.18 cum of 13X20mm size stone chippings (passing 22.4mm sieve and retained on 11.2mm sieve) and 0.09 cum of 11.2mm size stone chippings (passing 13.20mm sieve and retained on 5.6mm sieve) using total quantity of 14.60 Kgs of 80/100 Grade Bitumen

per 10 Sq.m including sectioning to camber and consolidation of 8 to 10 tonnes power roller.

b) B.T. Seal Coat;

Providing B.T. simultaneous Seal coat using 0.06cum of course fine aggregate 6.70mm size passing I.S. 9.50mm sieve and retained on I.S. 2.36mm sieve per 10 Sq.mts and using total quantity of 680 Kgs of 80/100 grade Bitumen per 10 Sq.mts including consolidation with 8 to 10 tonnes Power Roller.

3.5 Kerb and Gutter:

Kerb and gutter is to be provided as per type design enclosed in VCC (1:2:4) mix using 20mm size H.B.G. metal for 100 feet, 80 feet and 60 feet wide roads.

Roads design:

1. 24', 30' & 33' wide roads / paths;

Carriage way 4.00 mts wide with provision for side drains and germs on both sides.

2. 40' wide road:

Carriage way

: 7.50 Mts.

Greener / Path way

: On either side.

Drainage: Masonry drains with provision of suitable connecting pipe.

3. 60' wide road:

Carriage way

: 10 Mts.

Kerb and Gutter

: 640mm

Greener / Pathway

: On either side.

Drainage: Masonry drains with provision of suitable connecting pipe.

4. 80' /100 wide roads

Carriage way

: 4 lane carriage way with two bays of 7.5 Mts each

and Central divider of 2.4 mts.

Kerb and Gutter

: 640mm

Greenery / Path way

: On either side.

Drainage: Masonry drains with provision of suitable connecting pipe.

5. Longitudinal Section:

A longitudinal Section of the center line of the roads shall be supplied at scales of

1:500 Horizontal

1:100 Vertical

The longitudinal section of the centerline of roads shall show supplied chainage reduced level of existing surface and of design level of road design grades, length of vertical curves and where appropriate stopping sight distance.

Longitudinal levels should be taken at maximum 20metre intervals and at all intermediate changes of grade kerb return profiles shall be detailed Longitudinal sections and cross-sections shall be taken along existing intersecting road for sufficient distance (approx. 50 metres) to enable kerb returns, dish-crossing and any necessary drainage to be designed.

6. Cross Sections:

Cross-sections shall be supplied at intervals not exceeding 30 metres for straights and 15 metres at curves at scales of 1:100 natural, cross sections shall show chainage, reduced levels of existing surface and the design level of pavement, kerb and gutter and leaf path.

Cross sections shall show how the new construction ties in with any existing road pavement.

7. Kerb and Gutter:

100', 80' and 60' wide roads to be provided with an approved sealed pavement with kerb and gutter to adequately and safety provided both vehicular and pedestrian access to each altorment, pram ramps are to be provided in all kerb returns.

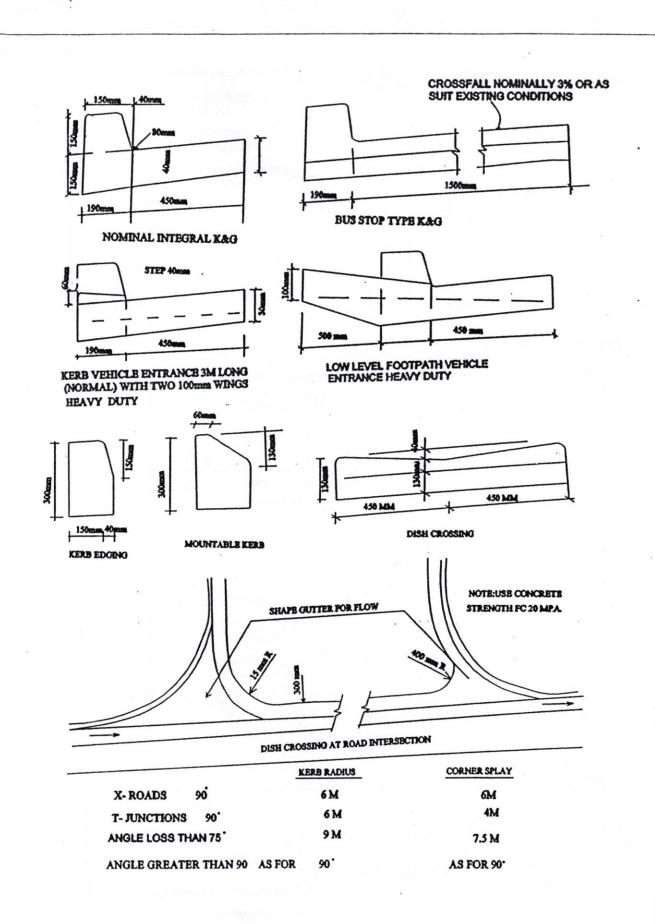
8. Avenue Plantation:

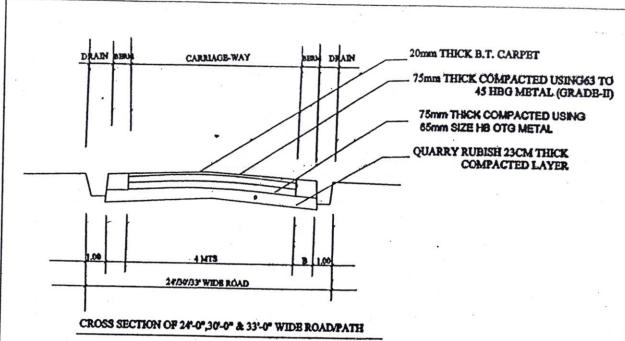
Types of species to be raised for Avenue Plantations.

SI. No	Category of Road	Spacement	Species to be raised
			a) S.S. Amam
1	30m and above	3x8m on either	b) P. Foosugina
		side	c) Kanuga
			d) Colonix
			a) Sisso
2	Above 15m but less than 30m	3x8m	b) Kanuga
			c) Sapta adia
			d) Malliggivhia
			a) Kanuga
3	Below 15m	3x8m in a	b) Neem
		staggered fusion	c) Spatadia
	1		d) Miclling tonix

Care should be taken to avoid planting of plants under electric transmissions lines.

For planting the avenue, 60x60cm cube pits should be dug. Red earth and farmyard manure shall be supplemented if the soil is poor.

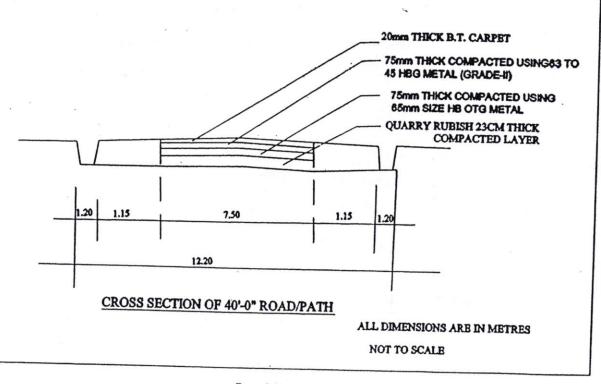


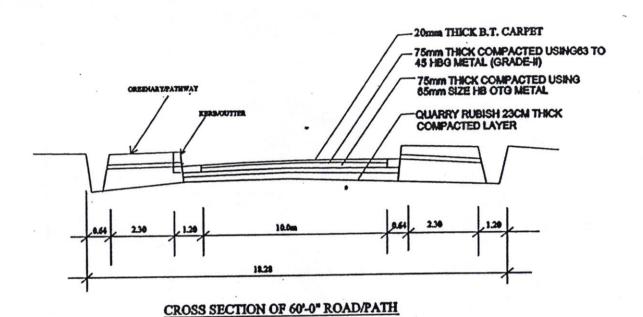


NOT TO SCALE

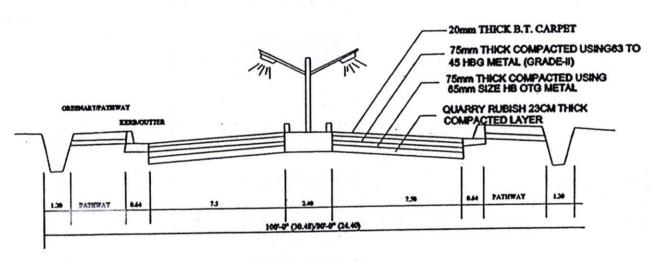
ALL DIMENSIONS ARE IN METRES

WIDTH	CARRIAGE-WAY	BARM
24-0	4.0 MT3	0.66
30-0*	4.6 MTS	1.57
33'-0"	4.9 MTS	2.00





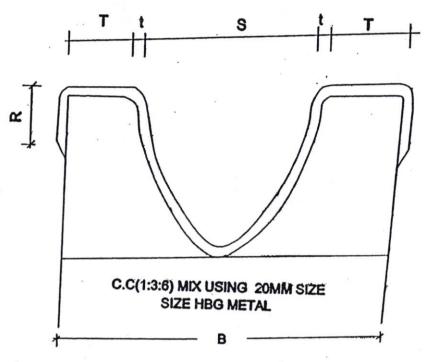
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CROSS SECTION OF 100'-0"(30.48)/80'-0"(24.40)

ROAD WIDTH	CARRIAGE-WAY	PATH-WAT	
100-0"	7.50	4.70	
30'-0"	7.50	1.66	

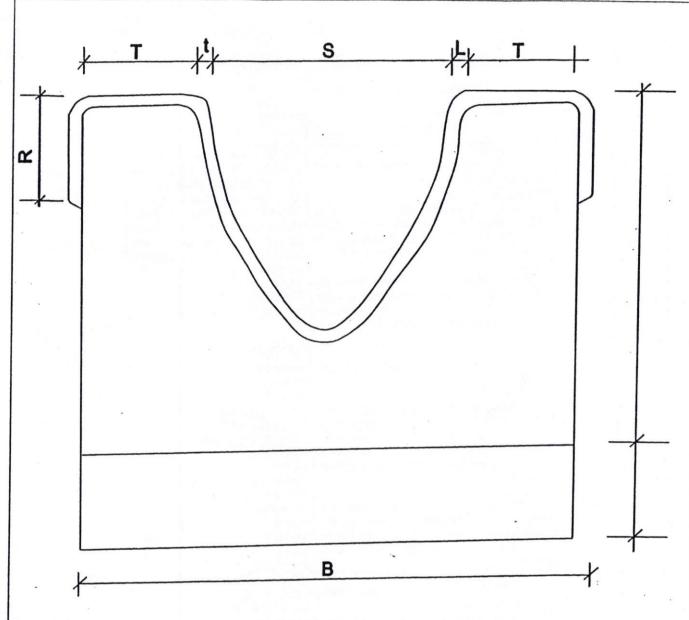
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ROAD WIDTH	SIZE OF DRAIN	S	T	t	d	H1	H2	В
40°-0°	12"	300	150	12	80	300	150	624



R.R.DRAIN

ROAD WIDTH	SIZE OF DRAIN	s	Т	t	d	H1	H2	нз	В
40'-0"	12"	300	300	20	80	300	80	150	940
60'-0"	15"	380	300	20	80	380	80	150	1020
50'-0"	18"	450	300	20	80	450	80	150	1090
100'-0"	24"	600	300	20	80	600	80	150	1200

Providing CC/RR drains in private layouts for approval of layouts (Revised specifications)

SI. No.		drain	Specifications	Remarks
1	12*	CC	Bed concrete CC (1:3:6) mix using 20mm size HBC Metal 150mm thick Side walls: CC(1:3:6) mix using 20mm size HBC Metal, 150mm thick for side walls. Road side walls are to be raised if necessary to maintain camber and required crossfall. Plastering Plastering in CM (1:3) 12mm thick for inside wetted perimeter area, top and for outside border 80mm width. The drain is to be constructed as per type design No.II enclosed.	flow of sullage/ storm water for the maximum length 700mm including branch drains where the discharge is commutative. CC drains are to be provided for the steeper gradients and where the embankment is minimum. Extra widths if necessary are to be provided for side walls.
2	12*	7	Bed concrete CC (1:5:10) mix using 40mm thick size HBG Metal 150mm thick. Side wall and bottom. RR Masonry in CM (1:6) mix using hard variety of rough stone with 300mm thick side walls and 80mm thick for bottom layer. Road side walls are to be raised if necessary to maintain camber and required crossfall. Plastering: Plastering in CM (1:5) 20mm thick for inside wetted perimeter area, top and for outside border 80mm width. The drain is to be constructed as per type design No.III enclosed.	flow of sullage storm water for the maximum length 700mm including branch drains where the discharge is commutative. RR Masonry drains are to be constructed for at higher embankments and at ditches, broken lands, hilly terrain to maintain gradient and to act as retaining wall. Necessary inverts are to be provided wherever necessary. Extra widths if necessary are to be
	15"	RR	Bed concrete CC (1:5:10) mix using 40mm size HBG Metal 150mm thick, Side wall and bottom layer. RR Masonry in CM (1:6) mix using hard variety of rough stone with 300mm thick for side walls and 80mm thick for bottom layer. Road side walls are to be raised if necessary to maintain camber and required cross fall. Plastering: Plastering in CM (1:5) 20mm thick for nside wetted perimeter area, top and for outside border 80mm width. The drain is to	provided for side walls. 15" size RR drain is to be provided for the cumulative flow of sullage/ storm water for the length beyond 700mts and up to 1150mts (cumulative length of 1150 mts) including branch drains where the discharge is commutative. Necessary inverts are to be provided wherever necessary to act as retaining wall and to maintain gradient. Extra widths if necessary are to be provided for side walls.
		1.6	nciosed	197

	,			
			Metal 150mm thick. Side wall and bottom layer. RR Masonry in CM (1:6) mix using hard variety of rough stone with 300mm thick side walls and 80mm thick for bottom layer. Road side walls are to be raised if necessary to maintain camber and required cross fall. Plastering: Plastering in CM (1:5) 20mm thick for inside wetted perimeter area, top and for outside 80mm width. The drain is to be constructed as per type design No.V enclosed.	(cumulative length of 1600m) including branch drains where the discharge is commutative. Necessary inverts are to be provided wherever necessary to act as retaining wall and to maintain gradient. Extra widths if necessary are to be
4	VÁM montu A	RR CHAIR Copment copment	Bed concrete CC (1:5:10) mix using 40mm size HBG Metal 150mm thick, side wall and bottom layer. RR Masonry in CM (1:6) mix using hard variety of rough stone with 300mm thick for side walls and 80mm thick for bottom layer. Road side walls are to be raised if necessary to maintain camber and required cross fall. Plastering: Plastering in CM (1:5) 20mm thick for inside wetted perimeter area, top and for outside border 80mm width. The drain is to be constructed as per type	flow of sullage /storm water for the length beyond 1600m and up to 2800m (cumulative length of 2800 m) including branch drains where the discharge is commutative. Necessary inverts are to be provided wherever necessary to act as retaining wall and to maintain gradient. Extra
			design No.VI enclosed.	Territoria

- The above drain sizes and lengths are given based on to maintain bed slopes to arrive the minimum cleansing velocity of one metre per second.
- The layout owner has to construct the drains in consultation with the VUDA Engineering Staff.
- Catch drains and leading drains of higher size i.e, more than 24" size are to be
 provided as directed where there is possibility of getting discharge from upstream
 catchments and further in continuation follow higher sizes than the incoming
 drain.
- 4. The minimum size of culvert with vent of size 1'-6"x2'-0" for slab culverts.
- 5. The culvert vent sizes are 0'-6" more than the upstream side drain with minimum heights of 2'-0" with suitable sizes of walls and slab.

Note: The size of the drain varies according to discharge and there are no norms for adopting the size straight way according to the width of the road. However, the following minimum sizes of drain to be followed for different types of roads are suggested subject to increasing width of drain according to increase in quantity of discharge.

To the Chairperson, AP RERA, Vijayawada.

Dear Sir,

M/S. SAI SRINIVASA VENTURES – HANVIKA TOWNSHIP

Amenities to be provided: We state that the layout development work will consist of the below amenities:

- 1. Road formation with Black top
- 2. Storm water drains, providing of drainage lines & common septic tank
- 3. Internal water supply pipe lines & overhead tank,
- 4. Assured water supply source,
- 5. Electrical supply lines along with street lights, Transformers,
- 6. Avenue plantation, park development and Rain water Harvesting Pits.,

as per the specifications enclosed, compound wall shall be constructed to the area reserved for open space & utilities along the boundary and All plots shall be demarcated with stones and plot Nos. shall be marked.

Thanking you, Yours faithfully,

Name: KETHAVARAPU JAGANNADHAM (As mentioned in the application & affidavit)

C. Leernadery.

Mobile No: 9866074363