



PROJECT: TENDER SURE

(SPECIFICATIONS FOR URBAN ROAD Execution)

BANGALORE CITY CONNECT FOUNDATION (BCCF)



MARCH 2013



BEFORE



AFTER

Vittal Mallya Road



BEFORE



AFTER

Walton road

CIRCA 2009.

IT ALL BEGAN WITH ONE ROAD

BCCF (Bangalore City Connect Foundation)*

assisted with the designs and interfaced with government agencies to fix **Vittal Mallya Road.**

And its success led to an adjoining road, Walton Road being taken up by citizens for improvement

* In conjunction with India Urban Space Foundation (IUSF)

The beginning

Circa 2010.
BCCF approaches
the State Government
with an offer to build an
Urban road & Tender manual
provided Government did its bit

This was christened **Tender
SURE** (Specifications for Urban
Road Execution)

<http://bit.ly/ZqMFwH>

BCCF ROLE

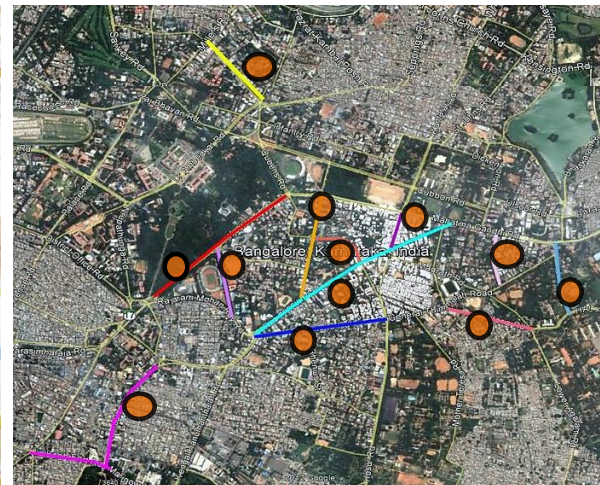
- Build urban road manual - focus on renewal of existing assets
- Model tender document
- Do pilot Detailed Project Reports (DPR)
- Capacity building within government
- Develop protocol for PPP for Tender SURE roads

GOK / BBMP ROLE

- Willing to implement Tender SURE on city roads in central district
- Budget for the first set of roads
- BBMP as initial executor of these roads with Council clearance
- Integrate activities of agencies – Utilities, Transport, Police, BBMP
- Enable private players to do Tender SURE roads

Informal MoU with GoK

BBMP and BMRCL
agree to do REACH I
roads under Tender
SURE guidelines



3 roads

Tender SURE
is an attempt to
bring all agencies on
board for a holistic
road development in
a collaborative
manner

PLAN, EXECUTE AND MAINTAIN



PLAN BEFORE JUMPING IN

- Comprehensive approach, considering all aspects of mobility
- Integrated planning for all road elements and services
- Better Standards for Design, Drawings, Data
- Participatory process – all agencies
- Design based on proper ground analysis

EXECUTION

- Better Terms of Reference, Better Contracts
- Construction Quality
- Safety,
- Project Mgmt, Quality and Cost Control; 3rd party inspection

MAINTAIN AND MANAGE

- Interagency integration, Coordination
- Timely maintenance cycles
- Role clarity

TRADITIONAL VS TENDER SURE ROUTE



RESIDENCY ROAD BEFORE PROPOSAL



RESIDENCY ROAD AS PER PROPOSAL

Tender SURE
represents a positive
disruption in the way
we design our roads

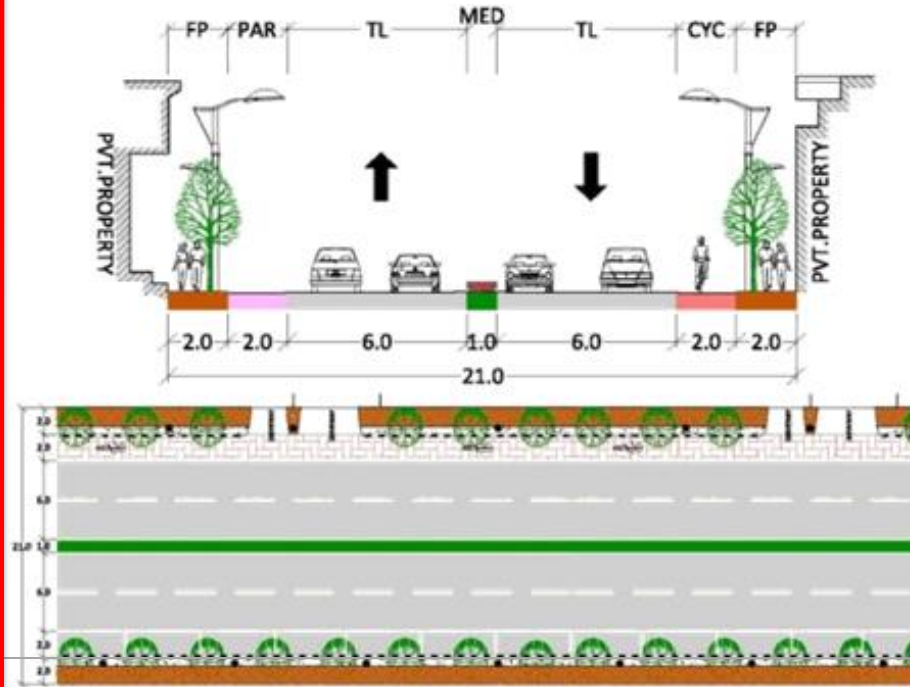
Area	Traditional	Tender SURE
Footpath	What's left, if available	More width, no obstruction
Bicycle lane	Not provided	Integral
Motor lane	Widen; 3.75 m ++, Varying	Uniform; 3 m fine
Entry / Exit	Not planned	Detailed; No jutting onto road
Utility ducts	None	Integral at outset
Asset mapping	None	Push utilities to do it
Inter agency	Separate tenders at different times	Single tender
Street light	No experimenting	LED, Green

The Tender SURE difference

34 ROW EXIST WITHIN THE CITY

Right of Way (RoW)
availability is the
start point

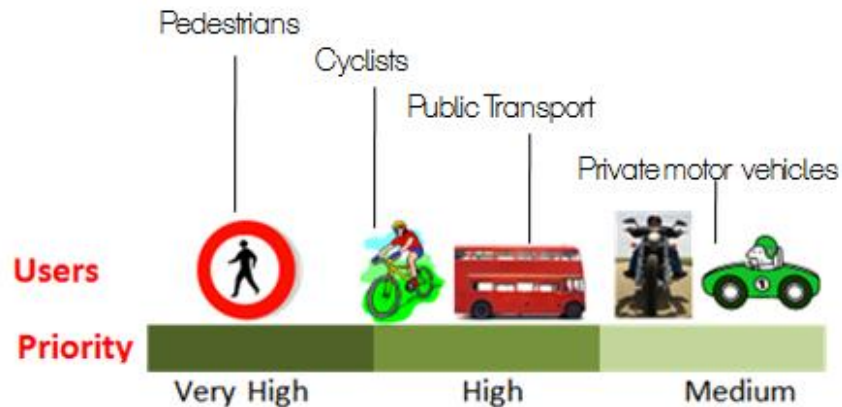
Detailed strip plans
done



	Sl. No.	Road Class	R-o-W (M)	Carriage way	Footpath	Dedicated cycle lane	Parking lane	BRT Lane
	1	Sub - Local	2	-	---	---	---	---
T	2		3	1	---	---	---	---
	3	Local	5	1	1.5	---	---	---
	4		6	3	1.5+1.5	---	---	---
	5		7	4.5	1.5+1.0	---	---	---
	6		7	3.5	1.5+2.0	---	---	---
	7		8	5	1.5+1.5	---	---	---
	8		10	3+3	2+2	---	---	---
T	9		10	3+3	2+2	---	---	---
	10		12	4+4	2+2	---	---	---
	11		12	3+3	2+2	---	---	---
	12	Collector	13	3.5+3.5	2+2	---	---	---
	13		13	4.5+4.5	2+2	---	---	---
	14		15	4.5+4.5	2+2	---	---	---
	15		15	3.5+3.5	2+2	---	2+2	---
	16		15	5.5+5.5	2+2	---	---	---
	17		18	6+6	1.5+2	---	2.5	---
	18		18	6+6	3+3	---	---	---
	19		21	6+6	2+2	2	2	---
T	20	Sub - arterial	21	4+4	2+2	2+2	2	---
	21		28	6+6	2.5+2.5	2+2	2.5+2.5	---
T	22	Arterial	30	6+6	3+3	2+2	---	3.5+3.5*
	23		33	5+5	3+3	2+2	2+2	3.5+3.5*
	24		34	5+5	3+3	2+2	2+2	3.5+3.5*
	25		39	10.5+10.5	2.5+2.5	2+2	---	3.5+3.5*
	26		39	10.5+10.5	3+3	2+2	---	3.5+3.5*
	27		40	12+12	3+3	2+2	---	3.5+3.5
	28		46	9+9	2+2	2+2	---	3.5+3.5
	29		47	9+9	2.5+2.5	2+2	---	3.5+3.5
	30		48	9+9	3+2.5	2.5+2.5	---	3.5+3.5
T	31		48	13+13	2.5+2.5	2.5+2.5	---	3.5+3.5
	32		50	9+9	3+3	---	---	3.5+3.5
	33		60	9.5+9.5	3+3	---	---	3.5+3.5
	34		80	11+11	2.5+2.5	---	3.0+3.0	3.5+3.5

Right of Way

DECIDING ON TRAVEL LANES



Planning done with
the Pedestrian at the
heart of the
Design process

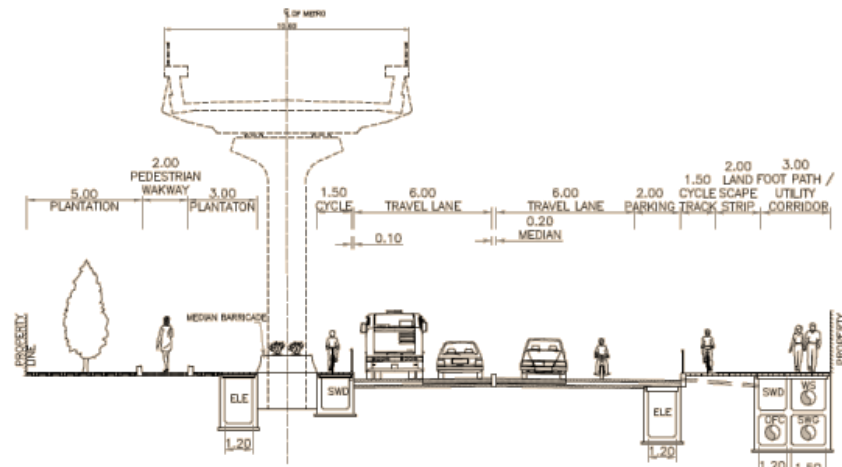
Road widening as strategy
avoidable

Encourage cycles by
providing lanes for it

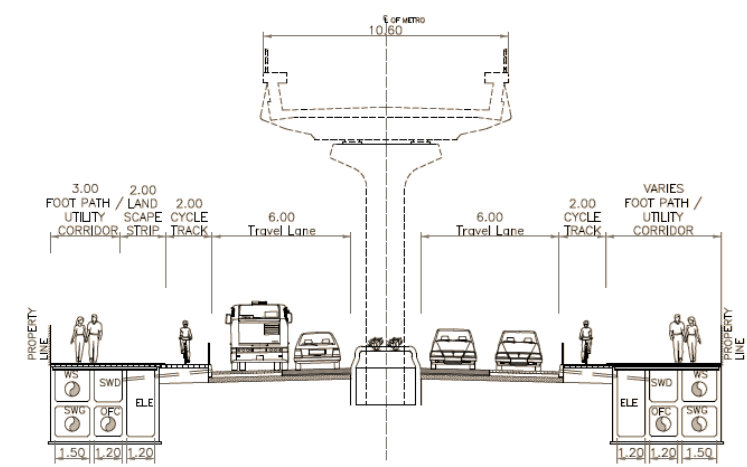
Public transportation
essential for sustainable
growth

Motor Vehicles will get
uniform lanes

X-SECTIONS VARY ACROSS A STRETCH



TYPICAL CROSS SECTION FROM CH:0+000 TO CH:0+225



TYPICAL CROSS SECTION FROM CH:0+800 TO CH:0+920

Map the varying X-sections across the road stretch in considerable detail

JUNCTION DESIGN NEEDS THINKING ABOUT FLOWS

Crossover, Straight flows and pedestrian walkways to be carefully planned



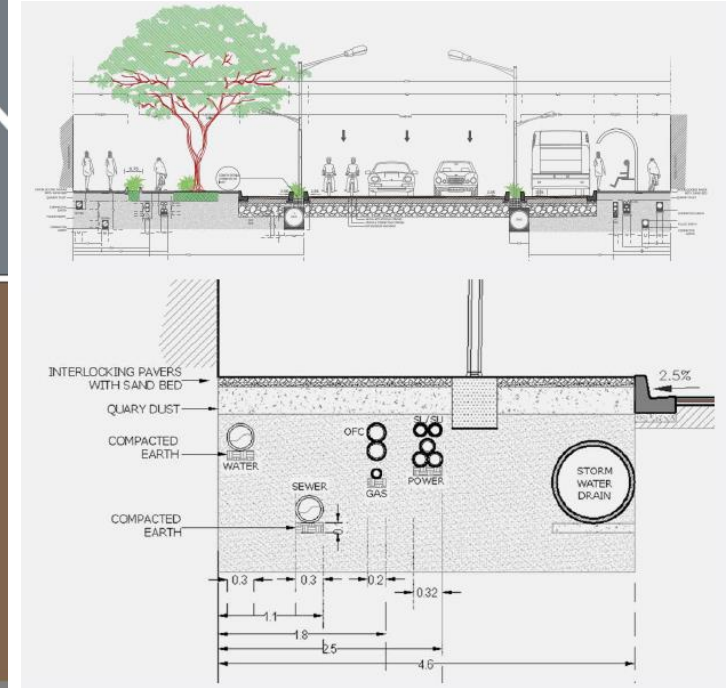
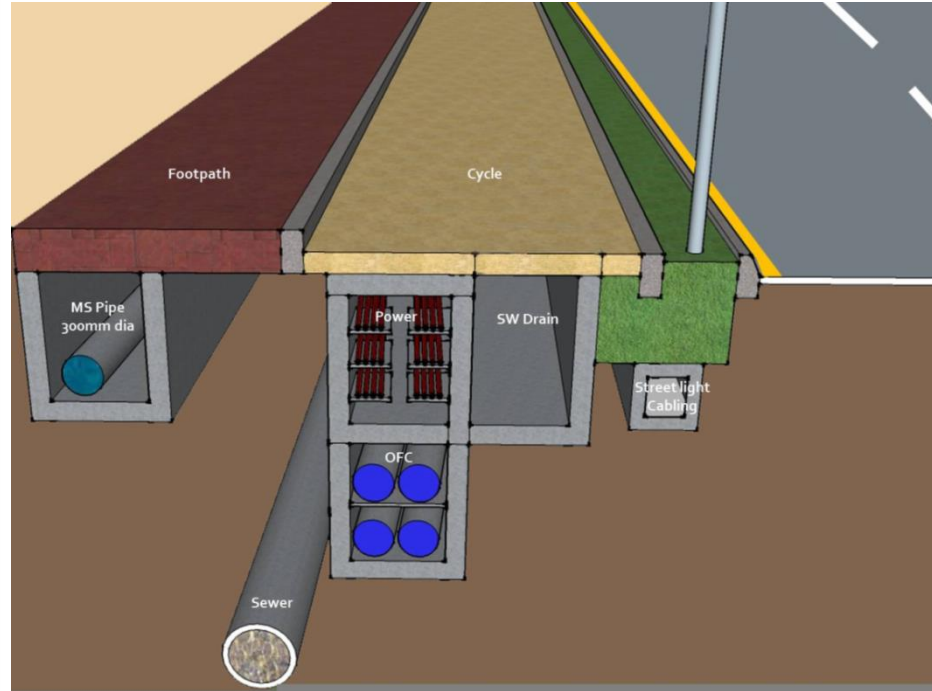
TRINITY CIRCLE



D'SOUZA CIRCLE

TYPICAL DUCT LAYOUTS

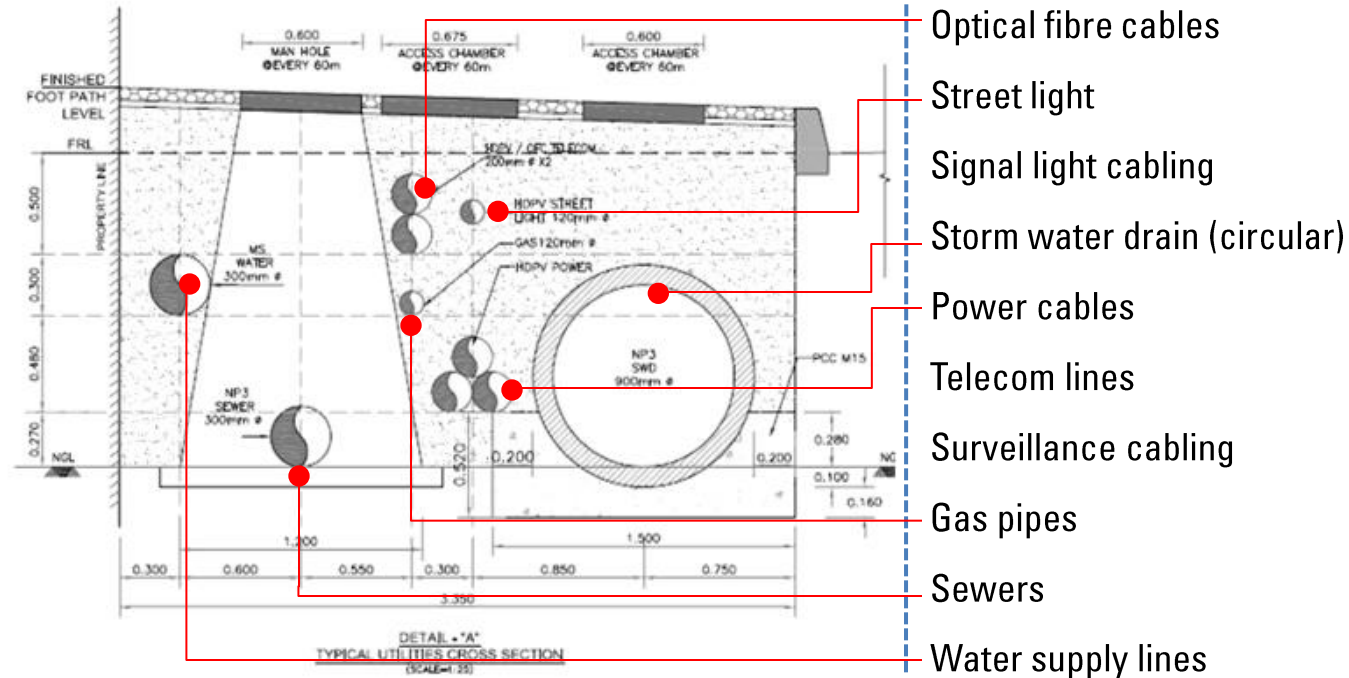
Longitudinal and cross ducts for long term sustainability. Evaluate life cycle costs



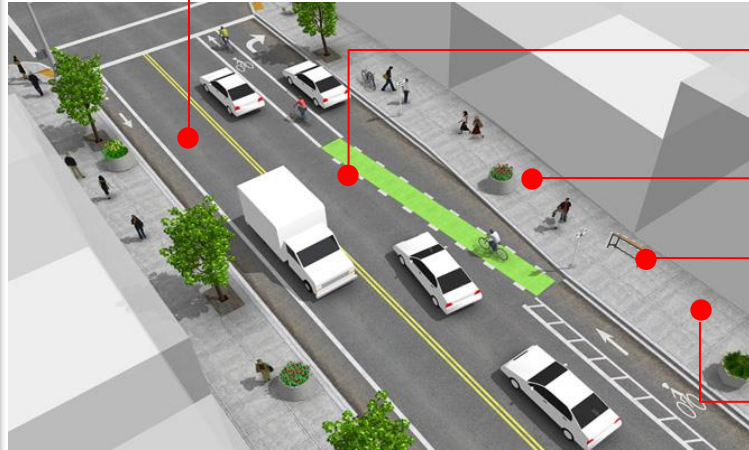
Underground ducts

ALTERNATIVE SUGGESTION FOR UNDERGROUND UTILITIES

Ducts 30-35% of costs. Agencies suggested dropping concrete ducts



OTHER TENDER SURE DESIGN ELEMENTS



Bus bays / bus shelters Regulated parking zones for vehicles

Travel lane – concrete/ asphalt ; junction – paver blocks with colour variations, parking – paver blocks

Footpath, cycle lane – colour, material variations

Hawkers & Street furniture - Landscaping, Lighting, SWM collection points, Signage, Traffic signals, Kiosks, etc.

Material specifications – uniform specs for all TS Roads

Detailed BoQ - Item rates set out

Tender:

- Integrated tender across all departments
- PMC + 3rd party inspection

3 volumes – The Project report, Detailed drawings and the Tender

Other design points

HOW INTER AGENCY INTEGRATION ACHIEVED

Push for asset mapping from utilities

- Network, Point assets
- Be prepared to do version 1 if no asset mapping exists

Sign off required on 3 points from utilities

- The DPR, drawings & BoQ is ok
- Willingness to do their detailed engineering, where required
- Conform to overall project schedule

Single tender being attempted for the first time

- Road contractor as lead partner
- Water supply / Sewerage and
- Power distribution as consortium partners

Integration across
agencies achieved
through clear
sign offs

Combined tender
experiment
underway

TENDER RELEASED BY BBMP FOR 18 ROADS IN BANGALORE

Bruhat Bangalore Mahanagara Palike
Office of the Executive Engineer (ROB/RUB Division),
1st Floor, New Building (Opp. Dr. Rajkumar Glass
House), N. R. Square, Bangalore-560 002.

No.EE(ROB/RUB)/Tend/01/2012-13 Dated: 06-03-2013

INVITATION FOR TENDER (IFT)
(Through GOK e-Procurement portal only)

The Executive Engineer, (ROB/RUB Division), BBMP, Bangalore
invites tenders from eligible tenderers registered in BBMP
through e-procurement portal for the following works.

Sl. No.	Name of the Work	Approx. amount put to tender	EMD
1.	Up-gradation of 5 Roads in Bangalore City as per "Tender SURE" Standards (Package-3). (Kempegowda Road, Nrupatunga Road, Modi Hospital Road, Siddaiah Puranik Road, 11th Main Road Jayanagar).	Rs.5859.00 Lakhs	Rs. 58.59 Lakhs

1. Tender documents may be downloaded from the e-procurement portal of the Government of Karnataka from : **11-03-2013**. 2. Pre bid meeting will be held on **27-03-2013 at 15:00 hours** in the Office of the Chief Engineer (Road Infrastructure). 3. Tenders must be submitted online through e-procurement portal on or before **16:00 hours on 10-05-2013** and the opening of tenders will be as per the e-procurement portal guidelines. 4. Technical Bids will be opened on the website: <https://eproc.karnataka.gov.in> in the office of the Executive Engineer (Road Infrastructure) on **14-05-2013 at 16:30 hours**.

Further particulars can be obtained from the above office during working hours on working days and Website: <https://eproc.karnataka.gov.in>

Sd/-, Executive Engineer, ROB/RUB Division.

BBMP through 6 design firms

Indian Express 7/3/2013

BRUHAT BANGALORE MAHANAGARA PALIKE
Office of the Executive Engineer (Road Infrastructure), 3rd Floor,
New Building (Opp. Dr. Rajkumar Glass House), N.R. Square, Bangalore-02
No.BBMP/EE(RI)/TEND/05/2012-13 Dated:06-03-2013

INVITATION FOR TENDER (IFT)
(Through GOK e-Procurement Portal only)

The Executive Engineer, Road Infrastructure Division, BBMP, Bangalore invites tenders from eligible Contractors for the following work.

Sl. No.	Name of the work	Approx. Value of work (Rs. in Lakh)	EMD (Rs. in Lakhs)
1.	Up gradation of 6 roads in Bangalore City as per "Tender SURE" Standards (Package-2) (Church Street, KH Road, Commercial Street, Raj Bhavan Road, 20th Main Koramangala and JC Road)	5414.38	54.15

1) Tender documents may be downloaded from the e-procurement portal of the Government of Karnataka from **11-03-2013**. 2) Tenders must be submitted online through e-procurement portal on or before : **10-05-2013 upto 4.00 pm**. and the opening of tenders will be as per the e-procurement portal guidelines.

The details regarding participation for this tender can be obtained by logging on to: <https://eproc.karnataka.gov.in>

Sd/- Executive Engineer (Road Infrastructure)

BRUHAT BANGALORE MAHANAGARA PALIKE
Office of the Executive Engineer,
Road Infrastructure (TEC), N.R. Square,
Bangalore - 560 002.

No.: EE/TEC/TEND/16/12-13 Date : 05-03-2013

INVITATION FOR TENDER (2ND CALL) (IFT)
TENDER NOTIFICATION
(Only through GoK e-Procurement Portal)

The Executive Engineer, Road Infrastructure (TEC) Division, BBMP, Bangalore on behalf of the Commissioner, BBMP invites tenders from eligible Contractors through e-Procurement portal for the work detailed below.

Sl. No.	Name of the work	Approx. amount put to tender (Rs. in Lakhs)	EMD (Rs. in Lakhs)
1	Upgradation of 7 Central Business District Roads in Bangalore City as per "Tender SURE" Standards. (Residency Road, Richmond Road, Cunningham Road, Commissariat Road, Museum Road, St. Marks Road & Vittal Maliya Hospital Road)	7180.45	72.00

Calendar of Events : (1) Tender documents may be downloaded from the GoK e-Procurement portal <https://eproc.karnataka.gov.in> from **11.03.2013**. (2) Date of submission of tender online through e-Procurement portal : **on or before 4.00 pm on 07.05.2013** and the opening of tenders will be as per the e-Procurement portal guidelines. (3) Date of Pre-bid Meeting : **02.04.2013 at 4.00 pm in the Office of the Chief Engineer (Road Infrastructure)**. (4) Date of opening of Technical Bids : **09.05.2013 at 4.30 pm in Office of the Executive Engineer (Traffic Engineering Cell Division)**. For further details contact the above office during office hours.

Sd/- Executive Engineer
TEC-Road Infrastructure

BCCF through IUSF

Initial Tenders

THE CITY CONNECT PLATFORM

The City Connect premise is that collaboration between Government and Civil society catalyzed by Industry can lead to better cities

