#### Construction of Grade Separator at Dange Chowk

D+-28/5/18

## of size 600 x4 50mm

Item: - Providing & fixing composite Resin Manhole cover & frame of load bearing capacity (C-250) 25 MT (Inspection shall be as per guidelines of EN 124:2004) Required replacement warranty for 24 months, including Loading, Unloading, Transportation, all other Taxes excluding GST, etc. complete. As directed by Engineer-in-Charge

Marking Required on Cover:

- Manufacturing Guidelines EN-124
- Load Bearing Capacity C-250
- Name or id Mark of Manufacturer
- Year of Manufacturing.

#### For following size: 600mm x 450mm with Frame

Lowest Rate from Comparative statement is Rs5,000/- per No. Hence Rate is proposed as Rs5,000/- per No.

Junior Engineer BRTS PCMC

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Deputy Engineer BRTS PCMC

har

Executive Engineer BRTS PCMC

Rate is approved as Rs. 5,000/- per No (Rs Five Thousand only) per No.

Jt. Oity Engineer PCMC Pimpri- 18

D+-2815118

## Construction of Grade Separator at Dange Chowk

size goox 450 mm

Item: - Providing & fixing composite Resin Manhole cover & frame of load bearing capacity (C-250) 25 MT (Inspection shall be as per guidelines of EN 124:2004) Required replacement warranty for 24 months, including Loading, Unloading, Transportation, all other Taxes excluding GST, etc. complete. As directed by Engineer-in-Charge

Marking Required on Cover:

- Manufacturing Guidelines EN-124
- Load Bearing Capacity C-250
- Name or id Mark of Manufacturer
- Year of Manufacturing.

#### For following size: 900mm x 450mm with Frame

Lowest Rate from Comparative statement is Rs 7,000/- per No. Hence Rate is proposed as Rs 7,000/- per No.



Deputy Engineer BRTS PCMC

**Executive Engineer** BRTS PCMC

Rate is approved as Rs. 7,000/- per No (Rs Seven Thousand only) per No.

Jt. City Engineer MC Pimpri – 18

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#### Construction of Grade Separator at Dange Chowk

size 600×600 mm

D+-28/5/18

Item: - Providing & fixing composite Resin Manhole cover & frame of load bearing capacity (C-250) 25 MT (Inspection shall be as per guidelines of EN 124:2004) Required replacement warranty for 24 months, including Loading, Unloading, Transportation, all other Taxes excluding GST, etc. complete. As directed by Engineer-in-Charge

Marking Required on Cover:

- Manufacturing Guidelines EN-124
- Load Bearing Capacity C-250
- Name or id Mark of Manufacturer
- Year of Manufacturing.

#### For following size: 600mm x 600mm with Frame

owest Rate from Comparative statement is Rs 7,400/- per No. Hence Rate is proposed as Rs 7,400/- per No.

Junior Bagineer BRTS PCMC

in

Deputy Engineer BRTS PCMC

12 10

**Executive Engineer BRTS PCMC** 

Rate is approved as Rs. 7,400/- per No (Rs Seven Thousand Four Hundred only) per No.

Jt. City Engineer PCMC Pimpri – 18

D+-28/5/18

#### Construction of Grade Separator at Dange Chowk

sizegoox 600mm

tem: - Supplying & fixing composite Resin Manhole cover & frame of Joad bearing capacity (C-250) 25 MT (Inspection shall be as per guidelines of EN 124:2004) Required replacement warranty for 24 months, including Loading, Unloading, Transportation, all other Taxes excluding GST, etc. complete. As directed by Engineer-in-Charge

Marking Required on Cover:

- Manufacturing Guidelines EN-124
- Load Bearing Capacity C-250
- Name or id Mark of Manufacturer
- Year of Manufacturing.

#### For following size: 900mm x 600mm with Frame

owest Rate from Comparative statement is Rs 9,000/- per No. Hence Rate is proposed as Rs 9,000/- per No.

Junior Engineer **BRTS PCMC** 

Deputy Engineer BRTS PCMC

Rate is approved as Rs.9,000/- per No (Rs Nine Thousand only) per No.

Jt. City Engineer PCMC Pimpri - 18

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Executive Engineer BRTS PCMC

D+-28/5/18

## Construction of Grade Separator at Dange Chowk

#### sizegorx goo mm

Item: - Supplying & fixing composite Resin Manhole cover & frame of load bearing capacity (C-250) 25 MT (Inspection shall be as per guidelines of EN 124:2004) Required replacement warranty for 24 months, including Loading, Unloading, Transportation, all other Taxes excluding GST, etc. complete. As directed by Engineer-in-Charge

Marking Required on Cover:

- Manufacturing Guidelines EN-124
- Load Bearing Capacity C-250
- Name or id Mark of Manufacturer
- Year of Manufacturing.

#### For following size: 900mm x 900mm with Frame

Lowest Rate from Comparative statement is Rs 12,000/- per No. Hence Rate is proposed as Rs 12,000/- per No.

**Luniov**Engineer BRTS PCMC

are

Deputy Engineer BRTS PCMC

BRTS PCMC

Executive Engineer

Rate is approved as Rs. 12,000/- per No (Rs Twelve Thousand only) per No.

Jt. City Engineer POMC Pimpri – 18

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## Construction of Grade Separator at Dange Chowk

Item: - Providing & fixing composite Resin Manhole Strom water drain gully gratings cover & frame of load bearing capacity (C-250) 25 MT (Inspection shall be as per guidelines of EN 124:2004), With replacement warranty of 24 months, including Loading, Unloading, Transportation, all other Taxes excluding GST, etc. Complete as directed by Engineer-in-Charge.

Marking Required on Cover:

- Manufacturing Guidelines EN-124
- Load Bearing Capacity C-250
- Name or id Mark of Manufacturer
- Year of Manufacturing.

#### For following size: 600mm x 600mm with Frame

Lowest Rate from Comparative statement is Rs8,400/- per No. Hence Rate is proposed as Rs8,400/- per No.

Jupior Engineer BRTS PCMC

> Deputy Engineer BRTS PCMC

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Executive Engineer BRTS PCMC

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Rate is approved as Rs. 8,400/- per No (Rs Eight Thousand Four Hundred only) per No.

Jt. City Engineer POMC Pimpri – 18

### Construction of Grade Separator at Dange Chowk

tem: - Providing & fixing composite Resin Manhole Strom water drain gully gratings cover & frame of load bearing capacity (C-250) 25 MT (Inspection shall be as per guidelines of EN 124:2004), With replacement warranty of 24 months, including Loading, Unloading, Transportation, all other Taxes excluding GST, etc. Complete as directed by Engineer-in-Charge.

Marking Required on Cover:

- Manufacturing Guidelines EN-124
- Load Bearing Capacity C-250
- Name or ID Mark of Manufacturer
- Year of Manufacturing.

### For following size: 900mm x 600mm with Frame

Lowest Rate from Comparative statement is Rs10,000/- per No. Hence Rate is proposed as Rs10,000/- per No.

Junior Engineer BRTS PCMC

jore APA **Deputy Engineer** BRTS PCMC

Executive Engineer **BRTS PCMC** 

Rate is approved as Rs. 10,000/- per No (Rs Ten Thousand only) per No.

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Jt. City Engineer PCMC Pimpri – 18

### **Construction of Grade Separator at Dange Chowk**

tem: - Providing & fixing composite Resin Manhole Strom water drain gully gratings cover & frame of load bearing capacity (C-250) 25 MT (Inspection shall be as per guidelines of EN 124:2004), With replacement warranty of 24 months, including Loading, Unloading, Transportation, all other Taxes excluding GST, etc. Complete as directed by Engineer-in-Charge.

Marking Required on Cover:

- Manufacturing Guidelines EN-124
- Load Bearing Capacity C-250
- Name or id Mark of Manufacturer
- Year of Manufacturing.

### For following size: 900mm x 900mm with Frame

Lowest Rate from Comparative statement is Rs13,500/- per No. Hence Rate is proposed as Rs13,500/- per No.

Junior Engineer BRTS PCMC

only) per No.

Deputy Engineer BRTS PCMC

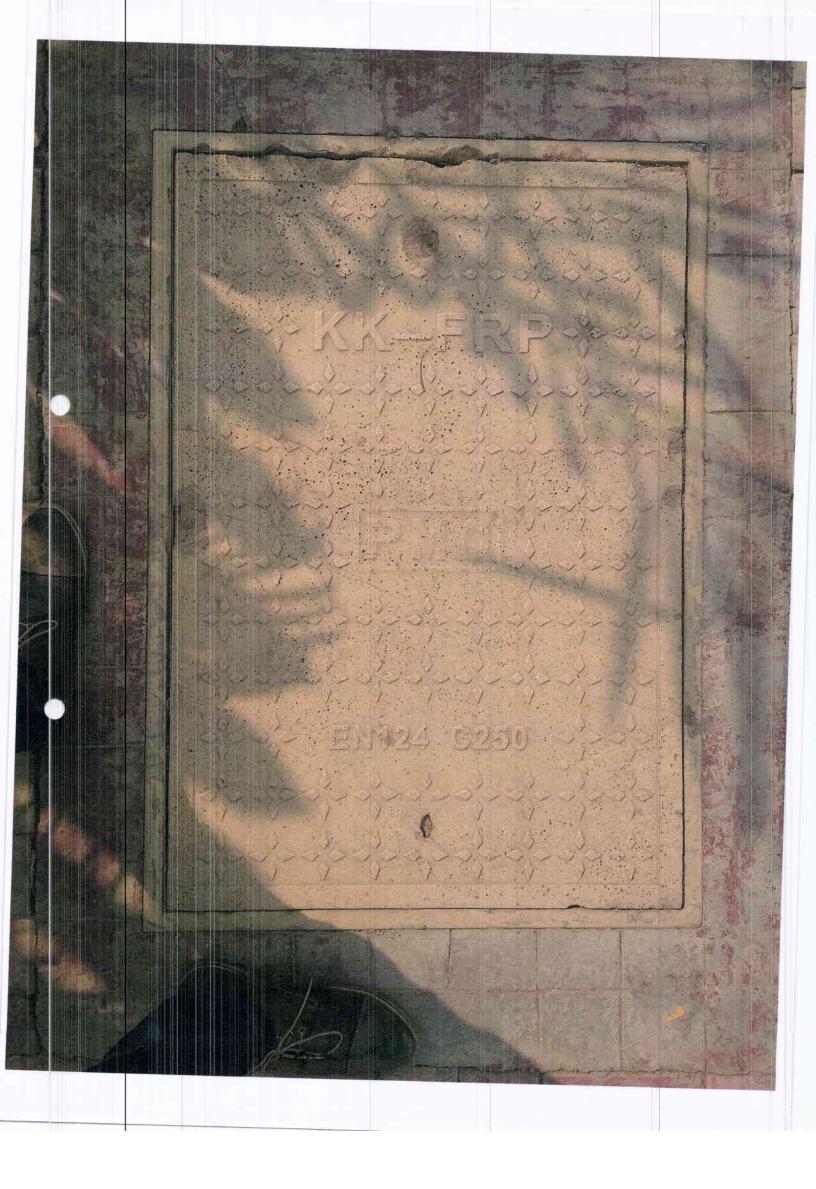
Rate is approved as Rs. 13,500/- per No (Rs Thirteen Thousand Five Hundred

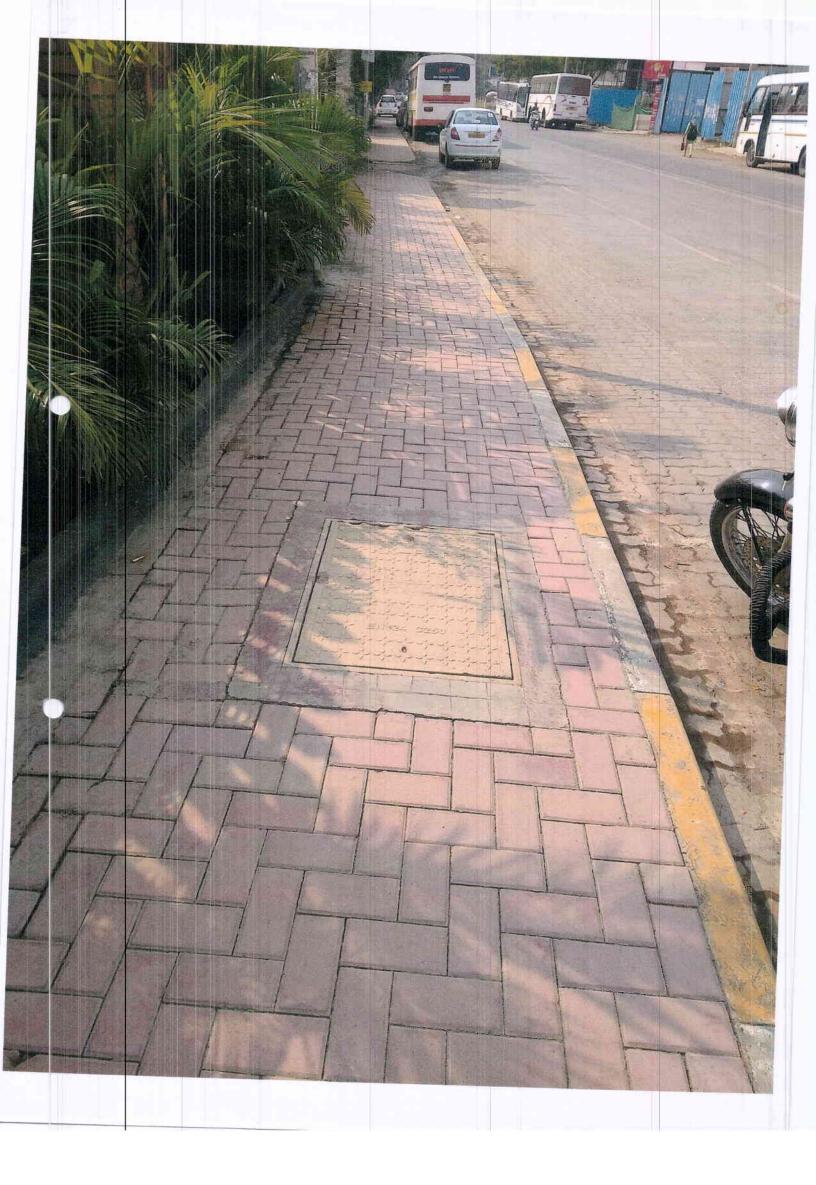
Jt. City Engineer PCMC Pimpri – 18

12000

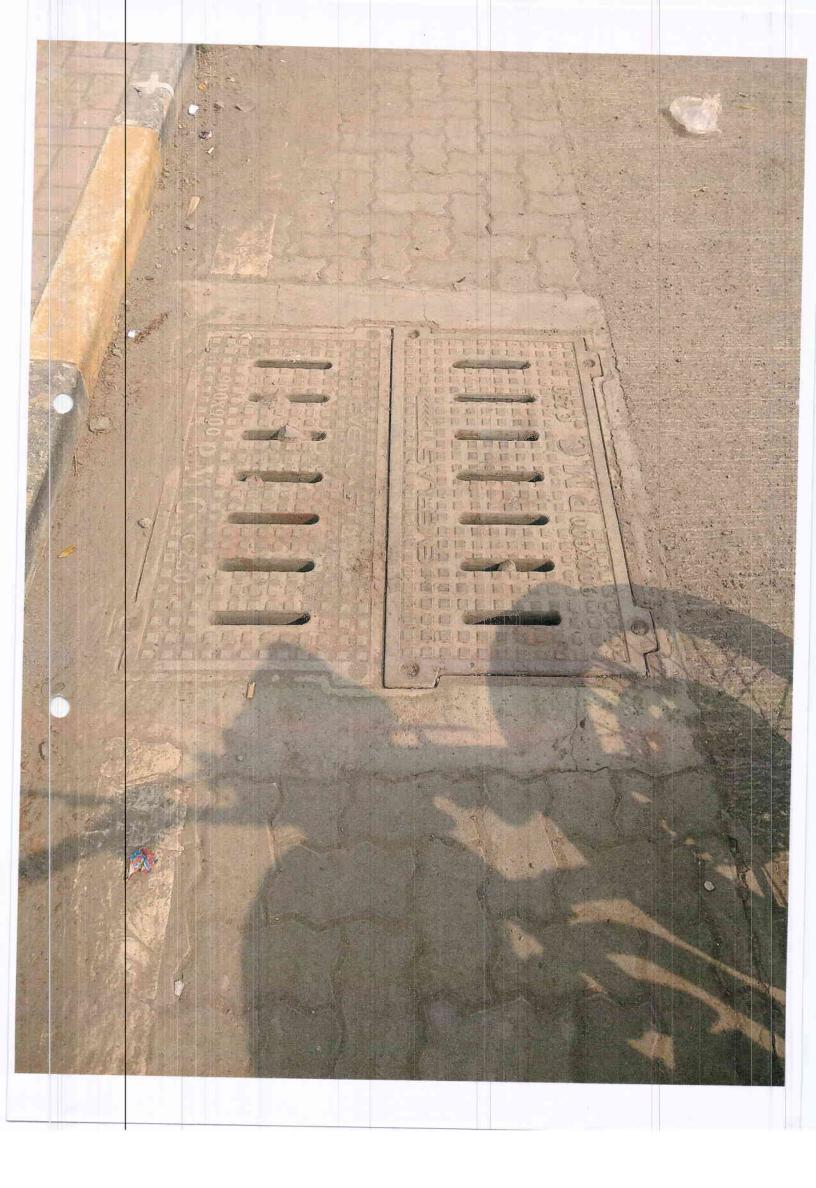
Executive Engineer BRTS PCMC

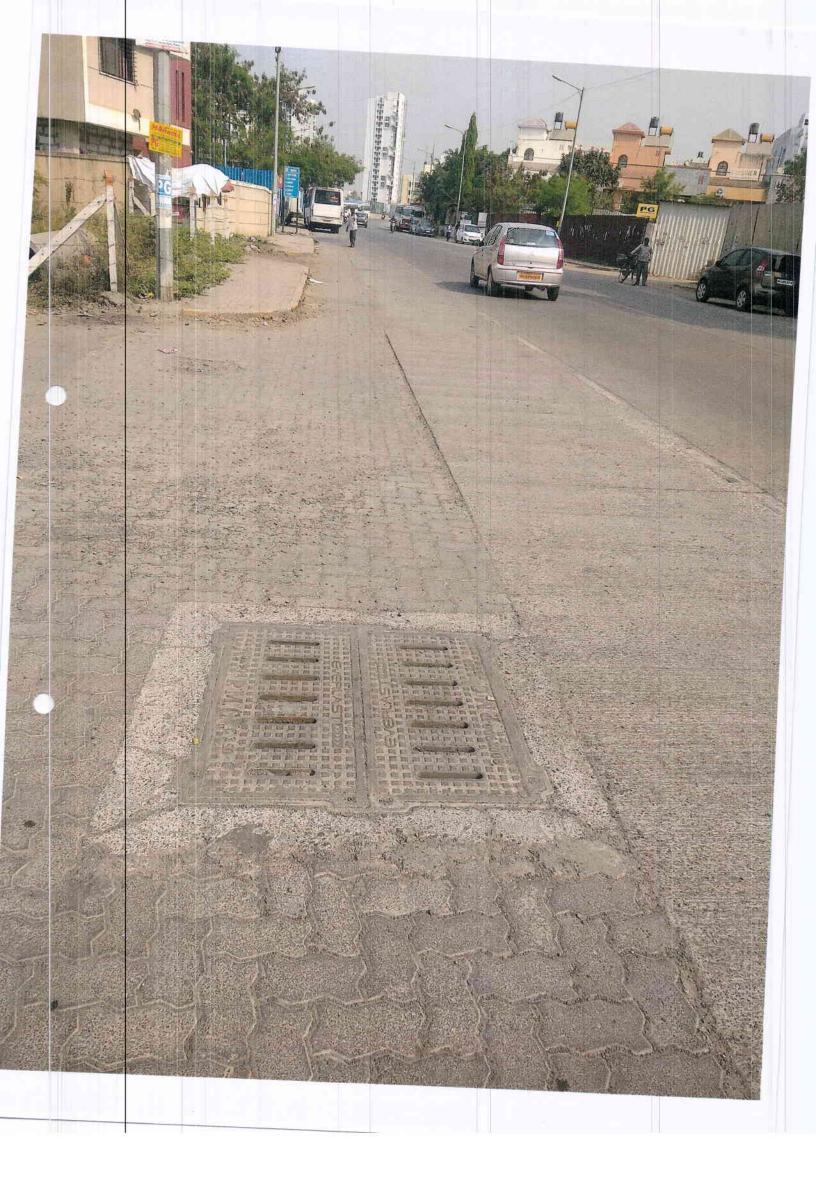




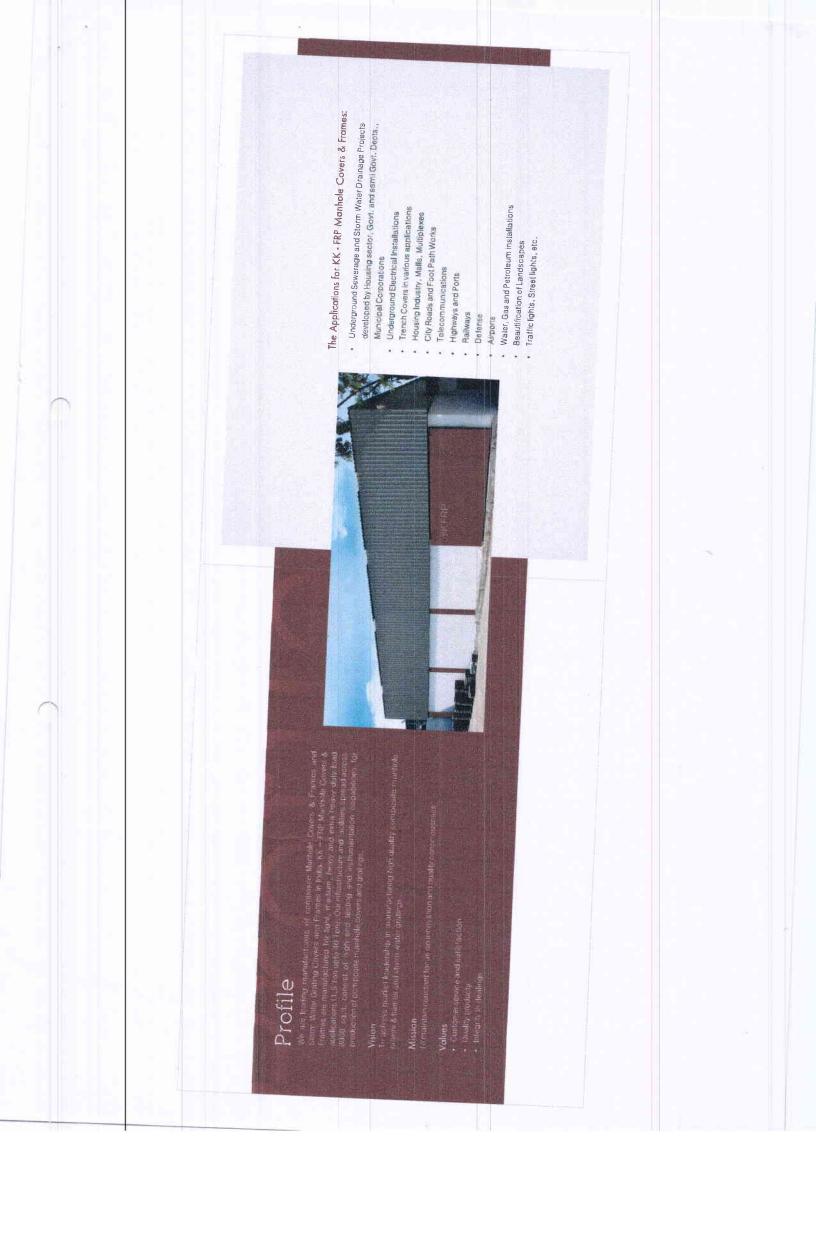








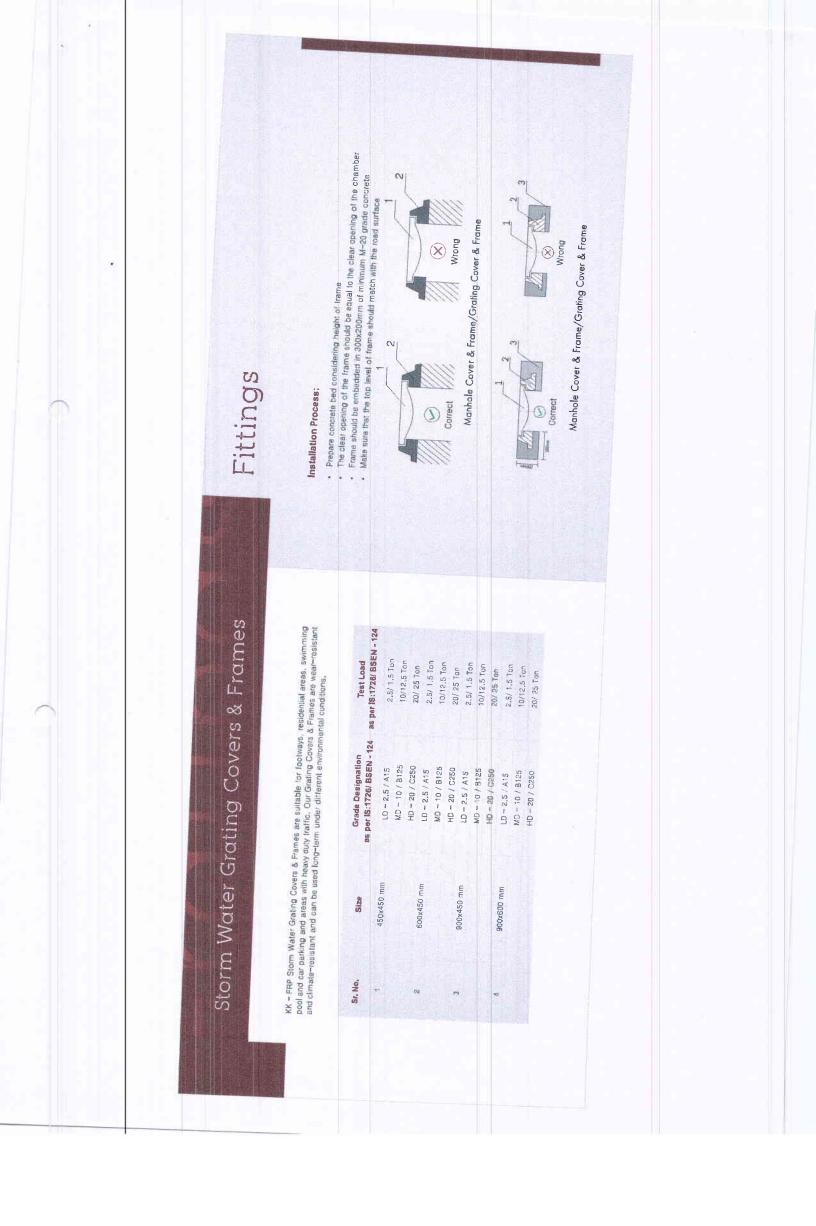






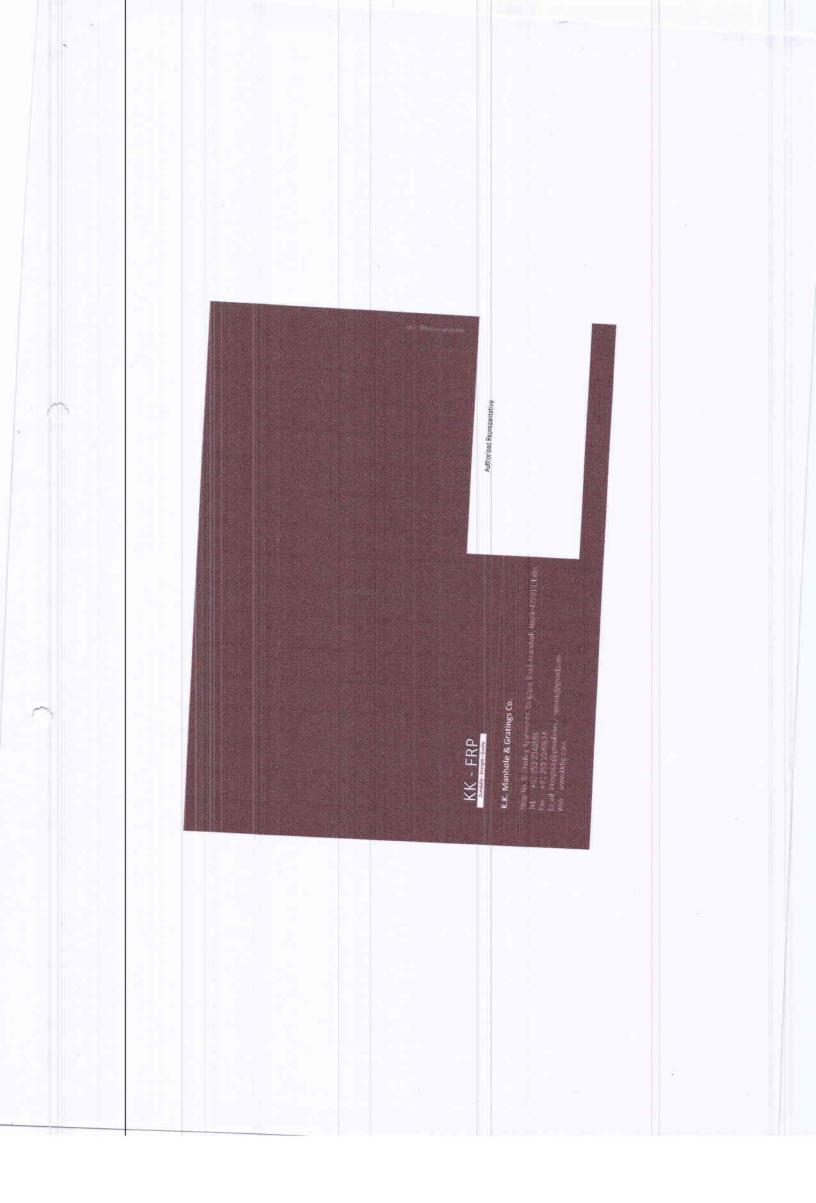










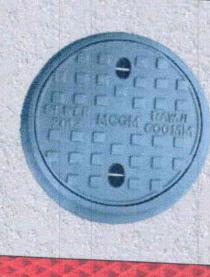


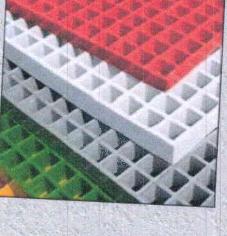


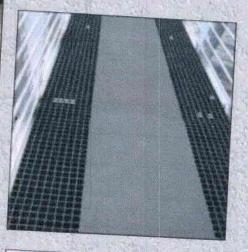
# FRP/GRP MANHOLE COVERS















# FRP/GRP MANHOLE COVERS



FRP Manhole Covers are made using thermoset material for long term durability. The material comprises of cross-linked polyesters combined with Fibreglass reinforced materials to sustain against wear-n-tear for heavy load vehicular traffic. It is 40% lighter than traditional Precast Concrete and Cast Iron covers. Provides upto 5 times more compressive strength. This resilient material withstands constant exposure to weather or sun without sacrificing security or aesthetics.

### **ADVANTAGES**

No resale value hence free from theft. Easy to handle and no risk of injury due to light weight. Does not rust due to chemical / sewage / rain water. High service life as it does not corrode and has high impact resistance. High on aestetics. The covers are self pigmented and do not require periodical painting for maintenance. The pigments are built in the material and UV stabilized. Hence there is no peeling / fading of the colours due to sunlight. Resistance to extreme temperatures.

# RECOMMENDED LOAD CAPACITY AS PER IS:1726-1991 & EN-124

## LIGHT DUTY-Test load-2.5 Ton

Suitable for use within residential complexes, for areas accessible to pedestrians and bicycles and occasional Light Motor Vehicle traffic These manhole covers can also be used for 'Inspection Chambers'.

## MEDIUM DUTY-Test load-10 Ton

Suitable for use under medium-duty vehicular traffic, passenger cars and vehicles of comparable weight including car parking areas.

## HEAVY DUTY-Test load-20 Ton

Suitable for use in carriageways with fast moving traffic, including trucks, city trunk roads, bus terminals with heavy duty vehicular traffic.



FRP/GRP MANHOLE COVERS

# STANDARD SIZES AVAILABLE :

Product Type	Size ( Cl	lear Opening
	in mm	in inches
Circular Manhole cover with Frame	530 Dia	21" Dia
	600 Dia	24" Dia
Rectangular Manhole cover with Frame	450 X 600	18" X 24"
	450 X 900	18" X 36"
	600 X 900	24" X 36"
Square Manhole cover with Frame	900 X 900	36" X 36"
	300 X 300	12" X 12"
	450 X 450	18" X 18"
	600 X 600	24" X 24"
Gully Gratings with Frame	900 X 900	36" X 36"
	450 X 450	18" X 18"
	450 X 600	18" X 24"
	600 X 500	24" X 20"
Water Tank Cover	600 X 600	24" X 24"
	600 Dia	24" Dia

# ★ Custom Sizes Available on Request ★

# FRP Manhole Covers Comparison Table

RCC	CI	Rawii FRP Covers
Low		- Covers
	Moderate	High
Very Low	Moderate	Very High
Low	Moderate	
Low		Comparable to CI
Concrete Grov		Nil (Zero Scrap Value)
		Range Available
	Not Available	Available
	Not Available	Available
Difficult	Difficult	
Negligible		Easy
		Nil
		High
None	None	Yes
	Low Very Low Low Low Concrete Grey Available Not Available	LowModerateVery LowModerateLowModerateLowModerateLowHighConcrete GreyBlackAvailableNot AvailableNot AvailableNot AvailableDifficultDifficultDifficultHighLowHigh

