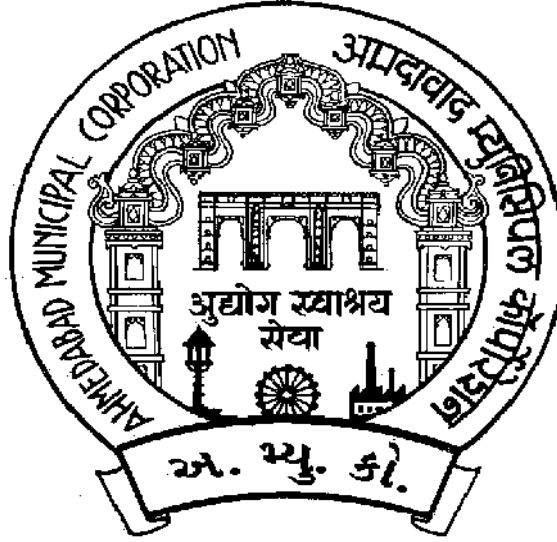


AMDAVAD MUNICIPAL CORPORATION

ENGINEERING DEPARTMENT

TENDER DOCUMENT (SOUTH ZONE)



TENDER NOTICE NO.- SZ- E-Tender Notice No – 02/2026-27

TENDER No.- 90

TENDER FOR

Fixing of paver block & RCC Road construction and other necessary works as per requirement at different society/flat & other places from budget grant by Municipal Councilor/Honorable MLA and from other special allocated budgets in Maninagar ward South Zone (ARC)

AUTHORITY --

DY. MUNICIPAL COMMISSIONER (SOUTH ZONE)
AMDAVAD MUNICIPAL CORPORATION
SOUTH ZONE OFFICE
Dr SHYAMA PRASAD MUKHRJEE BHAVAN
OPP. MANINAGAR FIRE STATION, RAMBAG.
AMDAVAD – 380008

ENGINEER --

ADD. CITY ENGINEER (SOUTH-ZONE)
AMDAVAD MUNICIPAL CORPORATION
SOUTH ZONE OFFICE
Dr SHYAMA PRASAD MUKHRJEE BHAVAN
OPP. MANINAGAR FIRE STATION, RAMBAG
AMDAVAD – 380008



AHMEDABAD MUNICIPAL CORPORATION
MAHANAGAR SAVA SADAN

South zone office building, rambaug, Maninagar Ahmedabad
Tele.no-(079) 25465255-25465344, fax no- 25452253



South Zone E-Tender Notice No – 02 / 2026-27

On Line Tenders (E-Tendering) are invited by Ahmedabad Municipal Corporation from the eligible interested bidders who fulfill the qualifying criteria as specified by AMC for different Road, water, Drainage/SWD & Building work of South zone.

Sr.No	Department	No.of work
1	Road / Footpath	31
2	Water	15
3	Drainage/SWD	45
4	Building	22
	Total	113

The details may be download of above notice will be available in www.amc.nprocure.com and www.nprocure.com from Date:- 26-05-2026 to 16-06-2026 Prescribed e-form as well as Price bid should be submitted online so as to reach at address cited below on or before date 16-06-2026 up to 18.00 Hrs. All relevant documents must be submitted by speed post or hand delivery along with processing fees as mentioned in the Tender document on date 17-06-2026 up to 16.00 Hrs.

To,
Assistant Manager (South zone), Ahmedabad Municipal Corporation
South zone Office Building, Rambaug, Maninagar, Ahmedabad

Deputy Municipal Commisioner
(South zone)

Ahmedabad Municipal Corporation
Engineering Department

Estimate

Fixing of paver block & RCC Road construction and other necessary works as per requirement at different society/flat & other places from budget grant by Municipal Councilor/Honorable MLA and from other special allocated budgets in Maninagar ward South Zone (ARC)

Sr. No.	Quantity	Item Description	Rate in Rs.	Per	Amount in Rs.
1		Dismantling the following including loading, unloading and disposal of unserviceable material for all lead or as directed by Engineer-In-Charge and stacking the serviceable material and backfilling the resulting trenches and pits complete.			
a	1498	central verge -kerb stone	13.20	Rmt	19773.60
b	17000	Dismantling tiled or stone floors laid in mortar including stacking of serviceable material and disposal of unserviceable material with all lead and lifts.	47.25	Smt	803250.00
c	10	Demolition & disposal of unserviceable material with all lead and lift for unreinforced concrete.	603.23	Cmt	6032.30
d	10	Demolition of brick work & stone masonry including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift (1) In cement mortar.	544.95	Cmt	5449.50
e	10	Demolition including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift. (I) R.C.C work.	1047.38	Cmt	10473.80
2		Extra rate over item of excavation of earth for excavation of asphalt pavement / RCC of thickness up to 0.20 meter including demolishing the asphalt carpet, metal, oiling/cutting Reinforcement etc.comp. with stacking the material as directed.			0.00
a	100	up to 0.20 meter thickness (By Manual)	71.10	Smt	7110.00
b	7824	0.20 to 0.30 meter (By any type of Breaker Machine or R.C.C.Cutter machine including cost of operator, fuel, & transportation etc complete.	177.76	Smt	1390794.24
c	140	0.30 meter & above (By any type of Breaker Machine or R.C.C.Cutter machine including cost of operator, fuel, & transportation etc complete.	311.08	Smt	43551.20

3	7447	Box cutting the road surface to proper slope & amber for making a base for road work including removing the excavated stuff and depositing on the road side slope as directed up to 200 Mt. lead.	205.35	Cmt	1529282.52
4		Conveyance charge of earth, lime, murrum, building rubbish, manure, garbage, sludge, excavated rock, fly ash, aggregates of any kind executed outside the road site. Rate also includes spreading & levelling etc complete. Internal conveyance above 50 mt done within the work site is not payable.			0.00
a	10	Lead From 4 Km to 5 Km.	52.42	Cmt	524.20
b	10	Lead From 5 Km to 10 Km.	78.54	Cmt	785.40
c	9309	Lead From 10 Km to 15 Km.	104.65	Cmt	974186.85
5	2482	Providing and laying cement concrete 1:3:6 (1-Cement : 3-coarse sand : 6- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth (SOR BUILDING WORKS AHMEDABAD CITY (WITHOUT GST) YEAR:-2023-24)	2976.00	Cmt	7387622.40
6	10	Providing and laying cement concrete 1:4:8 (1-Cement : 4-coarse sand : 8- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth (SOR BUILDING WORKS AHMEDABAD CITY (WITHOUT GST) YEAR:-2023-24)	2653.67	Cmt	26536.70
7	10	Providing and laying cement concrete 1:5:10 (1- Cement : 5- Coarse sand : 10- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth (SOR BUILDING WORKS AHMEDABAD CITY (WITHOUT GST) YEAR:-2023-24)	2492.51	Cmt	24925.10
8	1174	Providing and laying in position Ready Mixed M- 200 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead up to 10 kms having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.	4793.10	Cum	5625182.16

		Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) SOR 23-24 IT CD NO : 5055			
9		Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density as per Codal Provision.	2010	Cum	0.00
a	200	Production & Supply of WMM	1975	Cum	395000.00
b	200	Laying of WMM	35	Cum	7000.00
10		Repairing damaged M.H. and rasing M.H. up to road level incl. removing damaged brick work and repairing by brick masonry in C.M. 1:5 and plaster in C.M. 1:3 and fixing C.I. steps and existing MH sheet cover, removing the debris from MH and carting the same as directed.			0.00
a	25	(A) up to 0.15 mt. (@ Two Coarse)	728.82	No.	18220.50
b	25	(B) up to 0.35mt. (@ Four Coarse)	1,155.44	No.	28886.00
c	25	(C) up to 0.65 mt. (@ Seven Coarse)	1,786.49	No.	44662.25
11		Providing & Supplying ISI Standard RCC pipes (of sulphate resisting cement) in a standard lengths of following class & dia meter suitable for socket-spigot type including all taxes , insurance, transporation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, staking etc complete (IS 458:1989) Class NP-3, test pressure 0.7/kg/sqcm. Rate also includes supplying RCC collar for RCC pipes including taxes, carting, loading, unloading, etc complete. Including labour work for lowering, laying, jointing, RCC pipes in CM 1:1 1/2 of following diameters in proper position, grade and alignent at all as directed by engineer in charge. including conveyance from store to site of work labour giving hydraulic testing and all necessary testing as per IS code (RCC pipe Horizontal cast)			0.00
a	10	300 mm internal diameter	888.37	Rmt	8883.70
b	10	450 mm internal diameter	1539.32	Rmt	15393.20
c	10	600 mm internal diameter	2212.85	Rmt	22128.50
12		Providing, laying and jointing in true line and level UPVC pipe (SCH-40) of following dia. Including fittings of			0.00

		standard make as approved by Engineer-in-charge.			
a	10	15mm (IT CD NO 23061)	71.93	Rmt	719.30
b	10	25 mm (IT CD NO 23062)	90.93	Rmt	909.30
c	10	40 mm (IT CD NO 23064)	146.65	Rmt	1466.50
d	10	50 mm (IT CD NO 23065)	193.73	Rmt	1937.30
13		Providing and supplying, and jointing ISI mark only standard length stoneware pipes of following class and diameter including excavation for laying of pipes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. compl. (IS651/1989 or its latest revision) including labour work for lowering, laying, jointing with cement mortar (1:1) proportion, proper position, grade and alignment and all level as directed by engineer in charge including store to site of work jointing material etc complete Class AA			0.00
a	10	100 mm dia (IT CD NO 24001AA)	211.05	Rmt	2110.50
b	10	150 mm dia (IT CD NO 24001BA)	288.23	Rmt	2882.30
c	10	230 mm dia	400.54	Rmt	4005.40
14	10	Providing 15mm thick cement plaster in single coat on Rough (Similar) side of single or half brickwalls for interior plastering upto floor two level and finished even and smooth in (i) Cement mortar 1:3 (1-cement:3-sand) SOR 23-24 IT CD NO :17002A	174.83	SMT	1748.30
15	10	Leveling or orientation of existing Gully Trap chamber incl. nece. masonry in CM (1:6) and plaster in CM (1:3) etc. using old GT stone and cover etc. comp.	71.43	No.	714.30
16	10	Constructing Bombay Pattern Type Catch Pit of size 0.60 x 0.60 depth up to 1 mt including excavation, B.B.C.C. (1:5:10), 23 cms thick brick maso. wall in the prop. of CM (1:6) with 40 mm thick IPS flooring in the prop M15 at bottom and 15 mm thick cement plaster inside the catch pit in the proportion of CM (1:3) with out jali etc. comp. as directed.	3110.80	No.	31108.00
17		Providing F.R.C. MH seat cover incl. carting to the work site etc. comp. Directed.			0.00

a	10	F.R.C. Extra Heavy Duty (EHD-35) Manhole Covers & Frames Cover :728mm ϕ & 100 mm thick circular cover, 35.00 MT load design,100x2mm MS flat allround, 16mm ϕ plain round bar for lifting the cover & should be fitted with plastic cups. Frame : 560 mm ϕ clear opening,outer size- 888x888x175 mm. On the upper periphery of frame 25 x 3mm wide MS flat should be well embed in concrete to protect the edges of frame. FRC E.H.D.-35 manhole cover & frame described as	2843.00	SET	28430.00
b	10	F.R.C. Heavy Duty [HD-20] Machinehole Covers - 560 mm ϕ clear opening, The dimension of frame and cover as per mentioned in Amend No.1 to IS 12592 : 2002 table 1.	1458.00	SET	14580.00
c	10	F.R.C. Medium Duty [MD-10] Machinehole Covers - 560mm ϕ clear opening, The dimension of frame and cover as per mentioned in Amend No.1 to IS 12592 : 2002 table 1..	1064.00	SET	10640.00
d	10	F.R.C. Medium Duty [MD-10] Chamber Covers & Frame- 600 x 450 mm clear opening, The dimension of frame and cover as per mentioned in Amend No.1 to IS 12592 : 2002 table 1.	1911.00	SET	19110.00
18	10	CatchPit Jali (Heavy duty) Fixing P/F FRC catch pit jali with frame 600mm x 600mm clear opening etc. comp.. As directed by engineer in charge.	1167.49	No.	11674.90
19	10	Carting and Fixing M.H., Chamber or Catchpit Seat and Cover in line and level to match existing road level in C.C. 1:2:4 and finishing smooth, watering and protecting for 7 days etc. complete as directed. M.H. seat cover will be supplied by A.M.C.(from any store)	746.59	No.	7465.90
a	10	Grating(Jali): 690x690x70mm square jali, 5:00 MT load design, 70x2mm MS flat allaround,	905.06	No.	9050.60
b	10	Frame: 600x600mm clear opening, outer size- 800x800x120 mm. On the upper periphery of frame 25x3mm wide MS flat should be well embed in concrete to protect the edges of frame.	894.44	No.	8944.40
c	10	FRC Storm Water Grating Cover (Jali) & frame described as above. Refer Drawing	1795.96	Set	17959.60
d	10	(SET Cover and frame) F.R.C Heavy Duty (HD-20) Machinehole covers & Frames – 560 mm clear opening ,The dimension of frame and cover as per mentioned in Amend No.1 to IS 12592:2002 table 1	3255.62	Set	32556.20
20	10	CatchPit Jali (Heavy duty) Fixing P/F FRC catch pit jali with frame 600mm x 600mm clear opening etc. comp.. As directed by engineer in charge.	1377.64	No.	13776.40

21	10	Repairing damaged I.C./ Raising removing damaged brick work and repairing by brick masonry in C.M. 1:5 and plaster in C.M. 1:3 and fixing C.I. steps and removing existing chamber sheet cover, removing the debris from chamber and carting the same as directed.	396.00	No.	3960.00
22	10	Supplying and fixing of 380 mm H x 300 mm L x 200 mm B Kerb block for Central Verge in M-20 grade using 20 mm nominal size black trap aggregate of Sevaliya/Timba or equivalent quality for pre-cast blocks, reasonably exposed finish/ formwork, mould with well equipped with vibratory system for kerb stones of approved design including curing, etc. complete, including the cost of formwork etc. complete. The rate shall also include necessary cutting of asphalt, fixing the Kerb stones in line and level on 5 cm thick sand bedding with necessary equipments and materials. The rate shall also include the flush pointing in CM (1:3) for all joints of the kerbstones. Filling of zari along the sides of the kerb stone fixed with Bituminous concrete mixed in proper position as directed by Engineer in charge to form a portable mixture. In any case Gravel or such type of materials shall not be allowed for production a) Laying on 5 cm thick Sand Bedding	431.96	Rmt	4319.60
23	1500	Supplying and fixing of 300 mm-L x 150 mm-B x 380 mm-H Kerb block for Footpath in M-20 grade using 20 mm nominal size black trap aggregate of Sevaliya/Timba or equivalent quality for pre-cast blocks, reasonably exposed finish/ formwork , mould with well equipped with vibratory system for kerb stones of approved design including curing, etc. complete, including the cost of formwork etc. complete. The rate shall also include necessary cutting of asphalt, fixing the Kerb stones in line and level on 5 cm thick sand bedding with necessary equipments and materials. The rate shall also include the flush pointing in CM (1:3) for all joints of the kerbstones. Filling of zari along the sides of the kerb stone fixed with Bituminous concrete mixed in proper position as directed by Engineer in charge to form a portable mixture. In any case Gravel or such type of materials shall not be allowed for production. a) Laying on 5 cm thick Sand Bedding	350.89	RMT	526335.00

24	10	Pre cast concrete kerb Providing and fixing M25 Grade of concrete precast exposed / Fair finish / texture finish kerb stones of approved make as per approved sample of any size and any type. Kerbs shall be fixed on the foundation prepared as per approved design. The rate shall also include for erecting and fixing the pieces in position for complete kerb system with chamfered type of kerbs including necessary accessories of kerb like radius kerb, angles and quadrant kerbs, droplet kerbs etc. complete as per drawing. Kerb shall be fixed as paper joint without any jointing material. However cement mortar shall be provided at the backside of kerb stone joint. (Sample must be approved) Cost of excavation, cutting , base , side filling shall includes as directed engineer - incharge in above item description as per BOQ (a) 450 hight x 600x 150 mm high median kerb.	1061.61	RMT	10616.10
25	10	Pre cast concrete kerb Providing and fixing M25 Grade of concrete precast exposed / Fair finish / texture finish kerb stones of approved make as per approved sample of any size and any type. Kerbs shall be fixed on the foundation prepared as per approved design. The rate shall also include for erecting and fixing the pieces in position for complete kerb system with chamfered type of kerbs including necessary accessories of kerb like radius kerbs, angles and quadrant kerbs, droplet kerbs etc. complete as per drawing. Kerb shall be fixed as paper joint without any jointing material. However cement mortar shall be provided at the backside of kerb stone joint. (Sample must be approved) Cost of excavation, cutting , base , side filling shall includes as directed engineer - incharge in above item description as per BOQ (b) 380 x 600 x 150 mm high Footpath kerb.	912.50	RMT	9125.00
26	10	Providing and fixing pre-cast concrete kerb stone of gray cement based concrete block 30cm length,30cm height and 15cm thick of M200 grade concret as per approved design and including excavation for fixing in proper line and level,filling the joint with C:M 1:3 (1cement:3fine sand) etc complete. SOR 23-24 IT NO 14023A	376.43	RMT	3764.30

27	10	<p>Supplying and fixing for central verge 230 mm L x 235 mm Width x 680 mm H Supplying & Fixing in M-20 grade using 20 mm nominal size black trap aggregate of sevaliya/timba or equivalent quality for pre-cast blocks, reasonably exposed finish/formwork, mould with well equipped with vibratory system for kerb stones of approved design including curing, etc. complete, including the cost of formwork etc. complete. The rate shall also include necessary cutting of asphalt, fixing the kerb stones in line and level on 5 cm thick sand bedding with necessary equipments and materials. The rate shall also include the flush pointing in CM(1:3) for all joints of the kerbstones. Filling of Zari along the sides of the kerb stone fixed with bituminous concrete mixed in proper position as directed by engineer in charge to form a portable mixture. In any case gravel or such type of materials shall not be allowed for production.</p>	1376.75	RMT	13767.50
28	15000	<p>Providing and Laying of Rubber Moulded Paver Block Grey/Coloured 60 mm thick, M-35 Grade of any size ; shape (Usually Uni-Paver Blocks) using black trap good quality aggregate of 20 mm nominal size for footpath, parking areas, service lanes and other areas as mentioned in the drawing / instruction of engineer in charge. Cost includes formworks using rubber mould, Rate providing and laying paver blocks as per required grading and specification. The paver block shall be mechanically compacted. The work of paving blocks shall be executed in line and level by skill mason of flooring work only. It should be laid in such a way that the no cutting of the paver block to be necessary. If cutting of paver block necessary then it should be cut by machine only and carting. The finished surface of the paver block shall have reasonably good, plain finished. Paver blocks shall be compacted and shall be relaid if necessary. Gravel or such type of materials shall not be allowed for production. Laying on 5cms thick sand bedding.</p>	501.60	SMT	7524000.00

29	10	<p>Providing and laying of interlocking grey paver blocks of high density 80mm thick made from M-40 grade concrete using 6 mm to 20 mm machine crushed well graded stone aggregate, sand of approved quality, OPC 53 grade cement with contractor's own concrete mix design as approved by AMC, for parking, road. Cost Includes formwork, using rubber/FRP mould, laying paver block as per required grading and specification laid paver block shall be mechanically compacted. The work of the paving blocks shall be executed in line and level by skilled mason of flooring work only. It should be laid in such a way that the no cutting of the paver block to be necessary. Cutting of paver block by machine cut only and carting to be done. The Finished surface of the Paver Block shall have reasonably good plain finish. Paver blocks shall be compacted and shall be re-laid if necessary. Gravel or such type of materials shall not be allowed for production. Laying on 5 Cms thick sand bedding.</p>	572.00	SMT	5720.00
30	10	<p>Paver Block Providing and laying shot blasted Non - interlocking, Paver blocks of specified thickness, size, grade of concrete and colour machine made and blasting by automatic shot blasting machine and high density of as per approved sample of approved make for footpath, parking areas, service lanes, cross over and other areas as mentioned in the drawing. Including providing and laying 50 mm thick average bedding layer of coarse sand below paver block as per required grading and specification. Laid paver block shall be mechanically compacted. The work of the paving blocks shall be executed in line and level by skilled mason of flooring work only. Small size of paver block with same specification shall be used at residue or at end. It should be laid in such a way that the no cutting of the paver block to be necessary. If cutting of paver block shall be required, than cut by machine only and laying to be done by skilled flooring mason. The finished surface of the paver block shall have coarse sand Texture Finish. Pave blocks shall be compacted and shall be re-laid if necessary. Actual laid area shall be measured and paid without any wastage.</p> <p>(A) 60 mm thick M-35 grade Grey Paver block of size 200mm x 200mm.</p>	669.65	SMT	6696.50

31	10	Paver Block Providing and laying shot blasted Non - interlocking, Paver blocks of specified thickness, size, grade of concrete and colour machine made and blasting by automatic shot blasting machine and high density of as per approved sample of approved make for footpath, parking areas, service lanes, cross over and other areas as mentioned in the drawing. Including providing and laying 50 mm thick average bedding layer of coarse sand below paver block as per required grading and specification. Laid paver block shall be mechanically compacted. The work of the paving blocks shall be executed in line and level by skilled mason of flooring work only. Small size of paver block with same specification shall be used at residue or at end. It should be laid in such a way that the no cutting of the paver block to be necessary. If cutting of paver block shall be required, then cut by machine only and laying to be done by skilled flooring mason. The finished surface of the paver block shall have coarse sand Texture Finish. Pave blocks shall be compacted and shall be re-laid if necessary. Actual laid area shall be measured and paid without any wastage. (A) 80 mm thick M-35 grade Grey Paver block of size 200mm x 200mm.	758.93	SMT	7589.30
32	100	Labour work of fixing kurb any design of central verge, (both side) footpath kurb, items includes necessary excavation, asphalt cutting of any thickness, erecting in line and position and pointing with cement mortar (1:3), watering, etc complete, filling with zari along the side of the kurb, the kurb stone fix prepared with bituminous top surface, as directed by engineer in charge.	136.40	RMT	13640.00
33	10	Paver Block Providing and laying, Dished Channel specified thickness, size, grade of concrete and colour machine made and blasting by automatic shot blasting machine and high density of as per approved sample of approved make for suite drain besides parking area and other areas as mentioned in the drawing. Including providing and laying 50 mm thick average bedding layer of coarse sand below dished channel as per required grading and specification. Laid dished channel shall be mechanically compacted. The work of the dished channel shall be executed in line and level by skilled mason. Small size of dished channel with same specification shall be used at residue or at end. If cutting of dished channel shall be required, then cut	907.00	RMT	9070.00

		by machine only and laying to be done by skilled flooring mason. Actual laid area shall be measured and paid without any wastage. (A) 600 mm X 300 mm X 100 mm thick M-25 grade Grey dished curved channel Make VYARA or Equivalent			
34	10	Supply and installation of concrete bollard of size 300mm diameter x 900mm height, constructed using M-30 concrete and 4nos 8mm dia MS Fe500 reinforcement through the section as directed by EIC including supply of all	1725.00	No.	17250.00
35	10	Construction of RCC nosing in central verge using M-200 grade cement concrete. The item includes cost of centering & shuttering, reinforcement, both side cement plaster in C:M 1:3 mortar & curing etc. complete. Half round portion of the nosing shall be made by using mild steel.	4883.04	No.	48830.36
36	10	Providing, supplying and fixing precast C.C. blocks (M-20) edge kerb having size of 75 x 300 x 300 mm depth and as per design conveying it to the site, jointing into C:M 1:3 and racking out the joints incl. necessary excavation of asphalt, soil etc..completed.	195.54	rmt	1955.40
37	10	Supplying & Fixing Nimbhada ladi 37 to 50 mm thick for walk way covering the activity of excavation, ramming, laying on sand bedding as per requirement to fix the Nibhada stone in Line & Level with cement pointing in cement mortar 1:2 etc complete as directed.	236.60	Smt	2366.00
38	2000	Labour work for fixing interlocking blocks / any kind of pavement on up to 50 mm th sand bedding, levelling, watering and fixing in line & level as well cleaning the site etc.comp. as directed. SOR-2016	68.64	Smt	137280.00
39	3912	Bitumen Cutting Labour Charges Of Cutting in bituminous pavement.Cutting to be done with heavy duty tandom cutting machine consist of dianond level.Minimum Cutting Depth Shall be 75 mm From the finished Level.Cutting Shall be perfectly in line.the width and depth of the removal of asphalt towards kerb stone shall be as per the drawing.bitumin Shall be Carefully Removed so that the cutting edge towards the road should not be disturbed.The work of Removal of asphalt will be considered in this item as running meter of the cutting done by machine.one cutting line will be considered per length of the kerb stone.Bitumen and Other Debrise shall be disposed within 10.0 km.as per the instruction of the engineer in charge.Surroundings Shall be cleaned to the satisfaction of engineer in Charge	127.00	Rmt	496824.00

40	23472	Supplying, fabricating and placing in position reinforcement TMT bars Fe- 500, yield stress not less than 500 N/mm ² bars confirming to IS- 1786 reinforcement for RCC structure / items as per design including transporting steel to the work site, handling wastage, decoiling, cutting, bending, cranking, fabricating to required shape, placing in position, binding with 18 gauge (1.22 mm) GI wires, welding if necessary by using approved welding rods etc. for all levels, all place, all height as per drawing etc. complete as directed by the engineer-in-charge. The quoted rate should be inclusive the cost of binding wire, chairs, pins, brackets and the same will not be measured and paid separately. (Rolling margin's and wastage shall not be paid.) Measurement shall be made on the length basis and convert into weight by using standard co-efficient. SOR 23-24 IT CD NO :05014C	75.46	K.G	1771197.12
41	1174	Providing formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc. Height of propping and centering below supporting floor to ceiling not exceeding 4 M. and removal of the same for in situ reinforced concrete and plain concrete work in. (A) Foundations Footings Bases of Columns etc. and Mass concrete. (SOR BUILDING WORKS AHMEDABAD CITY (WITHOUT GST) YEAR:-2023-24)	171.68	SMT	201483.65
42	7824	P/A Tremix with dewatering machine and floater machine on constructed CC work for finishing the surface as per requirement. The rate including all machinaries, labor, loading, unloading, transportaion etc complete as per direction given by engineer in charge.	48.21	SMT	377195.04
43	2608	Making 15 mm. Groove in RCC work on road & filling it with polysulfied selant & finished ot good incl. all labour charges etc. comp.as directed.	26.78	Rmt	69842.24
44	80	Providing & Supplying JCB Machine on rental basis in case of emergency situation and break down type work & also during unavoidable condition as per instruction of engg.incharge , rate includes all nece. shifting, fuel and operating charges and stacking of useful & non-useful materials separately up to store. (No payment should be allowed for non working condition of machinery and for pipe line excavation and laying work) (SOR - (Jan. 2016) Rates for work of Drainage / SWD pipe line - Machinery Item No.4 Page no.7)	600.00	Hour	48000.00

45	10	Hiring of Tractor with trolley considering 8 Hrs. As working Day hours inclu. Driver (GWSSB SOR -22-23 Section 2E- Miscellenous Item no. 7)	2104.09	Day	21040.90
46		Supplying, labour for excavation of all types of soil at any depth including excavation of asphalt pavement of any thickness,demolition of brick work in CM of any proportion including stacking of serviceable materials and disposal of unserviceable material etc. comp. as directed.			0.00
a	40	Mazdoor at day /night	452.00	No	18080.00
b	10	Makadam/ supervision/Fitter at day / Night	474.00	No	4740.00
47	5	Providing and supplying Roller for compacting the road bhuvha with available building waste and Road waste material as and where directed by engineer in charge..	3571.43	Shift	17857.15
48	10	Rent for Providing Chota Hathi (Light weight vehicle) with Driver at shown site incl. necessary oil/diesel/petrol for vehical and all other charges.Work Done as per Instruction of incharge etc. Complete as Directed.	1000.00	Shift	10000.00
			TOTAL	Rs	29999988.48

The Rates are Exclusive of GST. Prevailing GST will be paid separately.

Contractor's Quoted Rate

IN FIGURE

..... % above
 % below

IN WORDS

.....

Net Quoted Tender Amount Rs.

(Rupeesonly)

Seal and Signature of the Bidder
 mobile no.
 Date:-

Additional City Engineer
 (South Zone)

AHMEDABAD MUNICIPAL CORPORATION

"South Zone Office", Opp. Fire Station, Rambaug, Maninagar, Ahmedabad - 380 008.

Municipal Commissioner invites online Percentage Rate sealed tenders from interested contractors for the work mentioned below.

1	Name of work	Fixing of paver block & RCC Road construction and other necessary works as per requirement at different society/flat & other places from budget grant by Municipal Councilor/Honorable MLA and from other special allocated budgets in Maninagar ward South Zone (ARC)
2	Time Limit	12Months
3	Tender Validity Period	120 days from the date of submission of the tender
4	Eligibility Criteria	Register "B" class in PWD in Govt. R&B/CPWD/AMC or equivalent registration with any other state Govt. Or institutions.
5	Estimated Cost put to tender	Rs.2,99,99,988.48
6	Earnest Money Deposit	Rs.3,00,000/- Demand Draft Or Bank Guarantee in favor of Municipal Commissioner, Ahmedabad to be submitted as prescribed in tender.
7	Security Deposit	5 % of the Tender Amount in form of Bank Guarantee / Demand Draft in favor of Municipal Commissioner, Ahmedabad to be submitted as prescribed in tender.
8	Tender fees (Non refundable)	Rs.3600/- Demand Draft in favor of Municipal Commissioner, Ahmedabad)
9	Submission of EMD and Tender Fees	In separate sealed cover each for EMD and Tender Fees along with Tender as described in the invitation of tender and submitted to Assistant Manager(South zone), South zone office, Rambaug, Maninagar Ahmedabad.
10	Tenders issue date	Tenders from the amc.nprocure.com website shall be downloaded from AS PER TENDER NOTICE INVITED
11	Last date of receiving Tenders.	As per Notice inviting Tender / Addendum / Corrigendum. The tenders received after latest schedule date and time will not be entertained under any circumstances.
12	Date of Opening	As per Notice inviting Tender / Addendum / Corrigendum to Assistant Manager / Dy.C.E.(S/Z) office, 2nd Floor, South Zone Office, Opp. Fire Station, Maninagar, Ahmedabad-380008
13	Mode of sending the Tender Documents	Document shall be submitted in sealed envelope systems By RPAD/Speed post/ Hand Delivery in sealed covers in Duplicate (One Original & One Duplicate) duly sign & seal by contractor .
14	Terms, Condition, & Specification	All general condition of contract mentioned in tender shall be applicable.
15	Defect & Liability Period	The contractor shall be responsible to make good and remedy at this own expenses any defect which may developed or may be noticed before the period mentioned here under from the certified date of completion, The within 15 days of receipts of the notice. In the case

		of failure on the part of the contractor, the Engineer in charge may rectify or remove or re-execute the work at the risk & cost of the contractor. The Engineer in charge shall be entitled to appropriate the whole or any part of the amount of security deposit towards the expenses, If any, incurred by him in rectification, removal or re-execution. The defect liability period shall be as under (a) for all works costing up to Rs. 50,000 (amount put to tender), the period shall be three months from the certified date of completion. (b) for all works costing more than Rs. 50,000 and up to Rs. 1 crore (Amount put to tender) ,the period shall be six (6) month from the certified date of completion or one monsoon , which ever letter.(c) the major project costing more than Rs. 1 crore , the period shall be 12 months from the certified date of completion which should include one monsoon.(d) For building works , the period specified in (a) ,(b) & (c) above or elapse of monsoon period following certified date of completion, whichever is letter . For the purpose of deciding the monsoon period, the 30 September may be treated as the last date.
16	Compensation for Delay	0.1% per day delay of remaining work after the completion date but not more than 10% of cost of remaining works.
17	Water, Electricity	Contractor shall have to make his own arrangements for water and electricity for the purpose of work at site at his own expense
18	Terms, Condition, & Specification	All general condition of contract of Form B1 condition of contract shall be applicable.
19	Deduction of Retention Money from each RA Bill	Retention @ 2% of the value of work done will be deducted from each RA bill. It will be released along with release of payment of Final Bill.
20	Addendum/Corrigendum	Addendum/Corrigendum If any Shall be Published 48 Hrs. Prior To the Final Submission Time And Date. The Same Shall From a part Of Tender And The Same As to be Attached Along With The Tender Document.
21	For ESIC & EPFO Act.	As per Account department circular no.37, date-09/08/2018 & Circular no.27, date-07/01/2026
22	GST	As per AMC Finance Department Circular No. 38 dated 21-11-2022. The Rates are Exclusive of GST. Prevailing GST will be paid separately.

Conditional tenders will not be accepted. Municipal Commissioner reserves the rights to reject any or all the tenders without assigning any reasons thereof.

Seal and Signature of the Bidder

**Add. City Engineer
(South Zone)**

AHMEDABAD MUNICIPAL CORPORATION
ENGINEER DEPARTMENT
SOUTH ZONE
MANINAGAR WARD
TECHNICAL SPECIFICATION

Name of Work : Fixing of paver block & RCC Road construction and other necessary works as per requirement at different society/flat & other places from budget grant by Municipal Councilor/Honorable MLA and from other special allocated budgets in Maninagar ward South Zone (ARC)

Item No. 1

Dismantling the following including loading, unloading and disposal of unserviceable material for all lead or as directed by Engineer-In-Charge and stacking the serviceable material and backfilling the resulting trenches and pits complete.

- a. central verge -kerb stone.
- b. Dismantling tiled or stone floors laid in mortar including stacking of serviceable material and disposal of unserviceable material with all lead and lifts.
- c. Demolition & disposal of unserviceable material with all lead and lift for unreinforced concrete.
- d. Demolition of brick work & stone masonry including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift (1) In cement mortar.
- e. Demolition including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift. (I) R.C.C work.

Workmanship :

The demolition shall consist of demolition of one or more parts of the structure as specified or shown in the drawings. Demolition implies taking up or down or breaking up. This shall consist of demolishing whole or part of work including all relevant item as specified or shown in the drawings.

The demolition shall always be planned before hand and shall be done in reverse order of the one in which the structure was constructed. Contractor is fully responsible for proper and safe demolition.

Necessary dropping, shoring and under pinning shall be provided for the safety of the adjoining work or property, which is to be left intact, before dismantling and demolishing is taken up and the work shall be carried out in such a way that no damages is caused to the adjoining property.

Wherever required, temporary enclosures or partitions shall also be provide 1. Necessary precautions shall be taken to keep the dust nuisance down as and where necessary.

Dismantling shall be commenced in a systematic manner. All materials which are likely to be damaged by dropping from a height or demolishing roof, masonry etc. shall be carefully dismantled first. The dismantled articles shall be properly stacked as directed.

All materials obtained from demolition shall be the property of Government unless otherwise d shall be kept in safe custody until handed over to the Engineer-in-charge.

Any serviceable materials, obtained during dismantling or demolition shall be separated out and stacked properly as directed, with all lead and lift. All unserviceable materials, rubbish etc. shall b stacked as directed by the Engineer-in-charge.

On completion of work, the site shall be cleared of all debris rubbish and cleaned as directed.

Mode of measurements & payment :

Measurements of all work except hidden work shall be taken before demolition dismantling and no allowance for increase in bulk shall be allowed. The demolition of lime concrete shall be measured under this item. Specification for deduction for voids, openings etc. shall be on same basis as that employed for construction of work.

All work shall be measured in decimal system as fixed in its place subject to the following limits, unless otherwise stated hereinafter : (a) Dimensions shall be measured to the nearest 0.01 mt. (b) Area shall be worked out to the nearest 0.01 sq. mt. (c,d,e) Cubical connection shall be worked out to the nearest 0.01 Cu.m.

The rate shall include cost of all labour involved and tools used in demolishing and dismantling including scaffolding. The rate shall also include the charges for separating out and stacking the serviceable materials properly and disposing the unserviceable materials with all lead and lift. The rate also includes for temporary storing for the safety of the portion not required to be pulled down or of adjoining property and providing temporary enclosures or partitions where considered necessary.

The rate shall be for a unit of one cubic metre.

For Dismantling of Tiled Floor:

The relevant specifications shall be followed except the dismantling of tiled or stone floors laid on mortars shall be done Dismantling implies carefully taking up or down or these are fixed by nail screws bolts etc. the shall be taken out with proper tools.

Mode of measurement & Payment :

The supporting materials such as joints beams if any etc. shall be measured separately. The rate shall include stacking the unserviceable materials as directed will lead and lift.

The rate shall be for a unit of (a) RMT (b) one sq. Meter (C) CMT(d)Cu.m(e)Cu.m

Item No. 2

Extra rate over item of excavation of earth for excavation of asphalt pavement / RCC of thickness up to 0.20 meter including demolishing the asphalt carpet, metal, soiling/cutting Reinforcement etc.

comp. with stacking the material as directed. (a) up to 0.20 meter thickness (By Manual)(b) 0.20 to 0.30 meter (By any type of Breaker Machine or R.C.C.Cutter machine including cost of operator, fuel, & transportation etc complete.(c) 0.30 meter & above (By any type of Breaker Machine or R.C.C.Cutter machine including cost of operator, fuel, & transportation etc complete.

The Item shall be carried out as per Item description and as per instruction of Engineer-in-Charge and/or his authorized representative.

The rate includes the cost of excavation of bituminous macadam i.e. bituminous layers only like DBM, BC etc including the labours, tools, equipment and all other incidental expenses. Non Bituminous Sub-layer/Sub base are not considered in this item.

Work shall be carried out manually or by Machinery as per site requirements.
The mode of payment for this item shall be on Smt. Basis.

Item No. 3

Box cutting the road surface to proper slope and camber for making a base for road work including removing the excavated stuff and depositing on the road side slope as directed upto 200Mt.lead.

General :

Any soil which generally yields to the application of ackaxes and shoves, phawaras rakes or any such ordinary excavating implement or organic soil, gravel silt, sand turf, loam, clay, peat etc., fall under this category.

Clearing the site :

The site on which the structure is to be built shall be cleared and all obstructions, loose stone, materials and rubbish of all kind, bush, wood and trees shall be removed as directed. The materials so obtained shall be property of the Government and be conveyed and stacked as directed. within 200 M. lead. The roots of the trees coming in the sides shall be cut and coated with a hot asphalt.

The rate of site clearance is deemed to be included in the rate of earth work for which no extra will be paid.

Setting Out :

After clearing the site, the center lines will be given by the Engineer-in-charge. The contractor shall assume full responsibility for alignment, elevation and dimension of each and all parts of the work. Contractor shall supply laborers, materials, etc. required for setting out the reference marks and bench marks and shall maintain them as long as required and directed.

Excavation :

The excavation in foundation shall be carried out in true line and level and shall have the width and depth as shown in the drawings or as directed. The contractor shall do the necessary shoring and shutting or providing necessary slopes to a safe angle, at his own-cost. The payment for such precautionary measures shall be paid separately if not specified. The bottom of the excavated area shall be 1 evened both longitudinally and transversely. as directed by removing and watering as required. No earth filling will be allowed for bringing it to level, if mistake or any other reason excavation is made. deeper or wider than shown on the plan or directed. The extra depth or width shall be made up with concrete of same proportion as specified for the foundation concrete at the cost of the contractor. The excavation up to 1.5 m. depth shall be measured under this item.

Disposal of the excavated stuff :

The excavated stuff of the selected type shall be used in filling the trenches and plinth or leveling the ground in layer including ramming and watering etc. The balance of the excavated quantity shall be removed by the contractor from the site of work to a place as directed with lead upto 200 M. and all lift.

Mode of measurement and payment :

The measurement of excavation in trenches for foundation shall be made according to the sections of trenches shown on the drawing or as per sections given by the Engineer-in-charge. No payment shall be made for surplus excavation made in excess of above requirements or due to slopping and sloping back as found necessary on account of conditions of soil , and requirements of safety.

The rate shall be for a unit of one cubic meter.

Item No. 4

Conveyance charge of earth, lime, murrum, building rubbish, manure, garbage, sludge, excavated rock, fly ash, aggregates of any kind Including spreading & levelling etc. complete.

- (a)Lead Upto 1 Km.
- (b)Lead From 1 Km to 2 Km.
- (c)Lead From 2 Km to 3 Km
- (d)Lead From 3 Km to 4 Km
- (e)Lead From 4 Km to 5 Km
- (f)Lead From 5 Km to 10 Km
- (g)Lead From 10 Km to 15 Km

Disposal of earth, lime, murrum, building rubbish, manure, garbage, sludge, excavated rock, fly ash, aggregates of any kind is subject to the following :

Unsuitable materials obtained from clearing site and excavation shall be disposed off within a lead of 200 meters or as per instruction given by Engineer in charge. Useful materials obtained from clearing site and excavation shall be stacked and used within the work site. Internal conveyance above 200 mt within the work site i.e. From starting chainage to End chainage of a given road WILL NOT BE

PAYABLE. Materials suitable for construction of Embankment, earthen shoulder and subgrade shall be stacked at convenient places within a work site for reuse. No extra payment will be paid to the contractor for stacking of earth within the work site and reused for the construction of Embankment layer, sub grade and earthen shoulder purpose. Only surplus earth shall be disposed off outside the work site as per instruction given by Engineer-In-charge. Useful stones from rock excavation shall be stacked nearly within a lead of 50 M. and will be allowed to be used by the contractor on payment at rates laid down in the contract or if not so laid down, at schedule of rates of the Division or at a mutually agreed rates if there are no such rates in the Schedule of rates.

If surplus materials are required to be conveyed outside the work site i.e. Outside conveyance from a particular stretch of given road will be paid in this item as per instruction of Engineer in charge. No bulking of disposed earth will be considered for the payment.

The rate shall be for a unit of one cubic metre.

Item No. 5

Providing and laying cement concrete 1:3:6 (1-Cement : 3- coarse sand : 6- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth

Before starting the concrete the bed of the foundations trenches shall be cleared of all loose materials and watered and rammed as directed. The proportion of cement, sand and hand broken stone aggregates shall be one part of cement, 3 parts of coarse sand, 6 parts of hand broken stone aggregates and shall so measured by volume. The concrete shall be mixed in a mechanical mixer at the site of work. Hand mixing may however be allowed for smaller quantity of work if approved by the Engineer-in-charge. When hand mixing is permitted by the Engineer-in charge in case of breakdown of machinery's and in the interest of the work. it shall be carried out on a water tight platform and care shall be taken to ensure that mixing is continued until the mass is uniform in colour and consistency. The quantity of water shall be sufficient to produce a dense concrete of required workability for the purpose. The concrete shall be handled from the place of mixing to the final position in not more than 15 minutes by the method as directed and shall be placed into its final position, compacted and finished within 30 minutes of mixing with water i.e. before the setting commences. The concrete shall be laid in layers of 15 cms. to 20 cms. The concrete shall be rammed with heavy iron rammers and rapidly to get the required compaction and to allow all the gaps to be filled with mortar. After the final set, the concrete shall be kept continuously wet, if required by pounding for a period of not less than 7 days from the date of placement The concrete shall be measured for its length breadth and depth, limiting dimensions to those specified on plan or as directed.

Mode of measurements shall be on CMT basis

Item No. 6

Providing and laying cement concrete 1:4:8 (1-Cement : 4- coarse sand : 8- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth

Before starting the concrete the bed of the foundations trenches shall be cleared of all loose materials and watered and rammed as directed. The proportion of cement, sand and hand broken stone aggregates shall be one part of cement, 4 parts of coarse sand, 8 parts of hand broken stone aggregates and shall so measured by volume. The concrete shall be mixed in a mechanical mixer at the site of work. Hand mixing may however be allowed for smaller quantity of work if approved by the Engineer-incharge. When hand mixing is permitted by the Engineer-in charge in case of breakdown of machinery's and in the interest of the work. it shall be carried out on a water tight platform and care shall be taken to ensure that mixing is continued until the mass is uniform in colour and consistency. The quantity of water shall be sufficient to produce a dense concrete of required workability for the purpose. The concrete shall be handled from the place of mixing to the final position in not more than 15 minutes by the method as directed and shall be placed into its final position, compacted and finished within 30 minutes of mixing with water i.e. before the setting commences. The concrete shall be laid in layers of 15 cms. to 20 cms. The concrete shall be rammed with heavy iron rammers and rapidly to get the required compaction and to allow all the gaps to be filled with mortar. After the final set, the concrete shall be kept continuously wet, if required by pounding for a period of not less than 7 days from the date of placement The concrete shall be measured for its length breadth and depth, limiting dimensions to those specified on plan or as directed.

Mode of measurements shall be on CMT basis

Item No. 7

Providing and laying cement concrete 1:5:10 (1- Cement : 5- Coarse sand : 10- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth

Before starting the concrete the bed of the foundations trenches shall be cleared of all loose materials and watered and rammed as directed. The proportion of cement, sand and hand broken stone aggregates shall be one part of cement, 5 parts of coarse sand, 10 parts of hand broken stone aggregates and shall so measured by volume. The concrete shall be mixed in a mechanical mixer at the site of work. Hand mixing may however be allowed for smaller quantity of work if approved by the Engineer-incharge. When hand mixing is permitted by the Engineer-in charge in case of breakdown of machinery's and in the interest of the work. it shall be carried out on a water tight platform and care shall be taken to ensure that mixing is continued until the mass is uniform in colour and consistency. The quantity of water shall be sufficient to produce a dense concrete of required workability for the purpose. The concrete shall be handled from the place of mixing to the final position in not more than 15 minutes by the method as directed and shall be placed into its final position, compacted and finished within 30 minutes of mixing with water i.e. before the setting commences. The concrete shall be laid in layers of 15 cms. to 20 cms. The concrete shall be rammed with heavy iron rammers and rapidly to get the required compaction and to allow all the gaps to be filled with mortar. After the final set, the concrete shall be kept continuously wet, if required by pounding for a period of not less than 7 days from the date of placement The concrete shall be measured for its length breadth and depth, limiting dimensions to those specified on plan or as directed.

Mode of measurements shall be on CMT basis

Item No.8

Providing and laying in position Ready Mixed M-200 grade concrete for reinforced cement concrete work, using cement content as per approved Design Mix manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead up to 10 kms having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS:9103 to accelerate/retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge. Without Fly Ash (Min cement level as per latest IS456 shall be maintained) (Cement level 400 kg) (R&B SOR 21-22 Item code 5055)

Materials

Water

Water shall conform to M-1.

Cement

Cement shall conform to M-3.

Coarse Sand

Sand shall conform to M-6.

Coarse Aggregate

Coarse Aggregate shall conform to M-12.

a) Workmanship

CPWD specifications of item no. 5.4.1, 5.4.2, 5.4.3, 5.4.4, 5.4.5, 5.4.6 shall be followed. The relevant specifications of item no. 2.08 and 2.01 shall be followed.

Before quoting the rate, contractor shall confirm the exposure condition for the design of concrete. Mix design shall be carried out for environmental exposure condition as given in IS 456:2000 page 18 table 3.

All concrete work shall have fair finish concrete surface unless otherwise specified.

For exposed concrete element specified in the drawing fair finish steel shuttering made out of MS sheet not less than 14 gauge/ laminated plywood and supporting frame work shall be of steel. Proper care shall be taken in MS shuttering at the time of concreting during monsoon to achieve rust free concrete surface. The concrete surface shall be rendered if required to give fair finish.

For other concrete shuttering material shall be as follows:

- Columns: Moulds from marine ply with wooden battens or MS steel plates
- Straight walls / Curved wall in plan: Marine plywood with wooden battens of Acro make or

equivalent make plates and soldiers.

- Beam: Bottom - timber / steel plates, Sides - Steel plates / marine ply with battens

The concrete shall be designed as per relevant IS code- IS 10262 and SP 23, with or without chemical admixture to provide the grade of concrete having required workability and characteristic strength as per IS 456:2000. The proportion of cement, sand and coarse aggregates shall be determined by weight. The weight batch machine shall be used for maintaining proper control over the proportion of aggregates as per mix design. The design mix shall be got approved by Engineer-in-charge before starting the concrete work. The minimum cement content shall depend on the exposure condition of the concrete. The minimum cement content given in table (IS 456:2000, table 5) shall be adopted irrespective of whether the contractor achieves the desired strength with less quantity of cement. The strength requirements of different grades of concrete shall be as under :

Grade of	Compressive strength of 15 cm. cubes in N/mm ² .
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Concrete at 7 and 28 days conducted in accordance with IS : 516-1959.

	At 7 days	At 28 days	Max size of agg. In mm
M-10	7	10	20
M-15	10	15	20
M-20	13.5	20	20
M-25	17	25	20
M-30	21	30	20
M-35	24	35	20
M-40	28	40	20
In all cases, the 28 days compressive strength specified in above table be the criteria for			

acceptance or rejection of the concrete.

Where the strength of a concrete mix as indicated by tests, lies in between the strength of any two grades specified in the above table, such concrete shall be classified in for all purposes as concrete belonging to the lower of the two grades between which its strength lies.

The Contractor shall take necessary care to avoid sand streaks, air holes, honey combining etc., on finished concrete surface.

Proportioning

The proportions for ingredients chosen shall be such that concrete has adequate workability for conditions prevailing on the work and the supply of properly graded aggregate of uniform quality can be maintained till the completion of work. Grading of aggregate shall be controlled by obtaining the coarse aggregate, in different sizes and blending them in the right proportions as required. Aggregate of different sizes shall be stocked in separate stock piles. The required quantity of material shall be stock piled several hours, preferably a day before use. The grading of coarse and fine aggregate shall be checked as frequently as possible, the frequency for a given job being determined by the Engineer-in-charge to ensure that the suppliers are maintaining the uniform grading, as approved for samples used in the preliminary tests.

In proportioning concrete, the quantity of both cement and aggregate shall be determined by weight. Where the weight of cement is determined by accepting the maker's weight per bag a reasonable number of bags shall be weighed separately, to check the net weight, where cement is weighed from bulk stocks at site and not by bags. It shall be weighed separately from the aggregates. Water shall either be measured by volume in calibrated tanks or weighed. All measuring equipment shall be maintained in clean and serviceable condition. Their accuracy shall be periodically checked and calibrated in standard laboratory. It is most important to keep the specified water cement ratio constant and at its correct value. Moisture content in both fine and coarse aggregates shall be determined by the engineer-in-charge according to the weather conditions. The amount of mixing water shall then be adjusted to compensate for variations in the moisture content. For the determination of moisture content in the aggregates IS : 2386 (Part III) shall be referred. Suitable adjustments shall also be made in the weights of aggregates due to variation in their moisture content.

The minimum cement content for the various mixes shall be as per IS: 456-2000.

All RCC works shall be carried out as per the detailed drawings and direction of Architects and Engineer-in-charge. The concrete shall be placed at all heights, levels and for all shapes.

Mode of Measurement and Payment

The relevant specifications of item no. 5.4.11.1, 5.4.11.4, 5.4.11.5, 5.4.12, 5.4.13 shall be followed. The rate shall be included or exclude the cost of centering and shuttering will be as specified in the item.

The rate shall be inclusive of chemical admixture like plasticizer etc. as directed by the engineer-in-charge. No extra payment shall be paid for.

The rate shall be for a unit of one cum. The cost of formwork shall be included as excluded as per the item description.

ITEM NO:-9

Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density as per Codal Provision.

Production & Supply of WMM

Laying of WMM

Scope

This work shall consist of laying and compacting clean, crushed, graded aggregate and granular material, premixed with water, to a dense mass on a prepared sub-grade/sub- base/ base or existing pavement as the case may be in accordance with the requirements of these Specifications. The material shall be laid in one or more layers as necessary to lines, grades and cross-sections shown on the approved drawings or as directed by the Engineer.

The thickness of a single compacted Wet Mix Macadam layer shall not be less than 75 mm. When vibrating or other approved types of compacting equipment are used, the compacted depth of a single layer of the sub-base course may be upto 200 mm with the approval of the Engineer.

Materials Aggregates

Physical Requirements

Coarse aggregates shall be crushed stone. If crushed gravel/shingle is used, not less than 90 percent by weight of the gravel/shingle pieces retained on 4.75 mm sieve shall have at least two fractured faces. The aggregates shall conform to the physical requirements set forth in Table.

If the water absorption value of the coarse aggregate is greater than 2 percent, the soundness test shall be carried out on the material delivered to site as per IS:2386 (Part-5).

Table : Physical Requirements of Coarse Aggregates forWet Mix Macadam for Sub-base/Base Courses

S.NO	Test	Test Method	Requirements
1)	Los Angeles Abrasion valueor	IS:2386 (Part-4) IS:2386 (Part-4) orIS:5640	40 percent (Max.)
	Aggregate Impact value		30 percent (Max.)
2)	Combined Flakiness and Elongationindices (Total)	IS:2386(Part-1)	35 percent (Max.)*

* To determine this combined proportion, the flaky stone from a representative sample should

first be separated out. Flakiness index is weight of flaky stone metal divided by weight of stone sample. Only the elongated particles be separated out from the remaining (non-flaky) stone metal. Elongation index is weight of elongated particles divided by total non-flaky particles. The values of flakiness index and elongation index so found are added up.

9.1.2 Grading Requirements

The aggregates shall conform to the grading given in Table.

Table: Grading Requirements of Aggregates for Wet Mix Macadam

IS Sieve Designation	Percent by weight passing the IS Sieve
53.00mm	100
45.00mm	95-100
26.50mm	-
22.40mm	60-80
11.20mm	40-60
4.75mm	25-40
2.36mm	15-30
600.00 micron	8-22
75.00 micron	0-5

Material finer than 425 micron shall have Plasticity Index (PI) not exceeding 6.

The final gradation approved within these limits shall be graded from coarse to fine and shall not vary from the low limit on one sieve to the high limit on the adjacent sieve or vice versa.

Construction Operations Preparation of Base

Clause 404.3.1 shall apply.

Provision of Lateral Confinement of Aggregates

While constructing wet mix macadam, arrangement shall be made for the lateral confinement of wet mix. This shall be done by laying materials in adjoining shoulders along with that of wet mix macadam layer and following the sequence of operations described in Clause 404.3.3.

Preparation of Mix

Wet Mix Macadam shall be prepared in an approved mixing plant of suitable capacity having provision for controlled addition of water and forced/ positive mixing arrangement like pugmill or pan type mixer of concrete batching plant. The plant shall have following features:

- i) For feeding aggregates- three/ four bin feeders with variable speed motor
- ii) Vibrating screen for removal of oversize aggregates
- iii) Conveyor Belt
- iv) Controlled system for addition of water
- v) Forced/positive mixing arrangement like pug-mill or pan type mixer
- vi) Centralized control panel for sequential operation of various devices and precise process control
- vii) Safety devices

Optimum moisture for mixing shall be determined in accordance with IS:2720 (Part-8) after replacing the aggregate fraction retained on 22.4 mm sieve with material of 4.75 mm to 22.4 mm size. While adding water, due allowance should be made for evaporation losses. However, at the time of compaction, water in the wet mix should not vary from the optimum value by more than agreed limits. The mixed material should be uniformly wet and no segregation should be permitted.

Spreading of Mix

Immediately after mixing, the aggregates shall be spread uniformly and evenly upon the prepared sub-grade/sub-base/base in required quantities. In no case shall these be dumped in heaps directly on the area where these are to be laid nor shall their hauling over a partly completed stretch be permitted.

The mix may be spread by a paver finisher. The paver finisher shall be self-propelled of adequate capacity with following features:

- i) Loading hoppers and suitable distribution system, so as to provide a smooth uninterrupted material flow for different layer thicknesses from the tipper to the screed.
- ii) Hydraulically operated telescopic screed for paving width up to to 8.5 mand fixed screed beyond this. The screed shall have tamping and vibrating arrangement for initial compaction of the layer. Automatic levelling control system with electronic sensing device to maintain mat thickness and cross slope of mat during laying procedure.

In exceptional cases where it is not possible for the paver to be utilized, mechanical means like motor grader may be used with the prior approval of the Engineer. The motor grader shall be capable of spreading the material uniformly all over the surface.

The surface of the aggregate shall be carefully checked with templates and all high or low spots remedied by removing or adding aggregate as may be required. The layer may be tested by depth blocks during construction. No segregation of larger and fine particles should be allowed. The aggregates as spread should be of uniform gradation with no pockets of fine materials.

The Engineer may permit manual mixing and /or laying of wet mix macadam where small quantity of wet mix macadam is to be executed. Manual mixing/laying in inaccessible/ remote locations and in situations where use of machinery is not feasible can also be permitted. Where manual mixing/laying is intended to be used, the same shall be done with the approval of the Engineer.

Compaction

After the mix has been laid to the required thickness, grade and cross fall/camber the same shall be uniformly compacted to the full depth with suitable roller. If the thickness of single compacted layer does not exceed 100 mm, a smooth wheel roller of 80 to 100kN weight may be used. For a compacted single layer up to 200 mm, the compaction shall be done with the help of vibratory roller of minimum static weight of 80 to 100 kN with an arrangement for adjusting the frequency and amplitude. An appropriate frequency and amplitude may be selected. The speed of the roller shall not exceed 5 km/h.

In portions having unidirectional cross fall/super elevation, rolling shall commence from the lower edge and progress gradually towards the upper edge. Thereafter, roller should progress parallel to the center line of the road, uniformly over-lapping each preceding track by at least one-third width until the entire surface has been rolled. Alternate trips of the roller shall be terminated in stops at least 1 m away from any preceding stop.

In portions in camber, rolling should begin at the edge with the roller running forward and backward until the edges have been firmly compacted. The roller shall then progress gradually towards the centre parallel to the centre line of the road uniformly overlapping each of the preceding track by at least one-third width until the entire surface has been rolled.

Any displacement occurring as a result of reversing of the direction of a roller or from any other cause shall be corrected at once as specified and/or removed and made good.

Along forms, kerbs, walls or other places not accessible to the roller, the mixture shall be thoroughly compacted with mechanical tampers or a plate compactor. Skin patching of an area without scarifying the surface to permit proper bonding of the added material shall not be permitted.

Rolling should not be done when the sub-grade is soft or yielding or when it causes a wavelike motion in the sub-base/base course or sub-grade. If irregularities develop during rolling which exceed 12 mm when tested with a 3 m straight edge, the surface should be loosened and premixed material added or removed as required before rolling again so as to achieve a uniform surface conforming to the desired grade and cross fall. In no case shall the use of unmixed material be permitted to make up the depressions.

Rolling shall be continued till the density achieved is at least 98 percent of the maximum dry density for the material as determined by the method outlined in IS:2720 (Part-8).

After completion, the surface of any finished layer shall be well-closed, free from movement under compaction equipment or any compaction planes, ridges, cracks and loose material. All loose, segregated or otherwise defective areas shall be made good to the full thickness of the layer and re compacted.

Setting and Drying

After final compaction of wet mix macadam course, the road shall be allowed to dry for 24 hours.

Opening to Traffic

No vehicular traffic shall be allowed on the finished wet mix macadam surface. Construction equipment may be allowed with the approval of the Engineer.

Surface Finish and Quality Control of WorkSurface Evenness

The surface finish of construction shall conform to the requirements of Clause 902.

Quality Control

Control on the quality of materials and works shall be exercised by the Engineer in accordance with Section 900.

Rectification of Surface Irregularity

Where the surface irregularity of the wet mix macadam course exceeds the permissible tolerances or where the course is otherwise defective due to sub-grade soil getting mixed with the aggregates, the full thickness of the layer shall be scarified over the affected area, re-shaped with added premixed material or removed and replaced with fresh premixed material as applicable and re compacted in accordance with Clause 406.3. The area treated in the aforesaid manner shall not be less than 5 m long and 2 m wide. In no case shall depressions be filled up with unmixed and ungraded material or fines.

Arrangement for Traffic

During the period of construction, arrangements for traffic shall be done as per Clause 112.

Measurements for Payment

Wet mix macadam shall be measured as finished work in position in cubic metres.

Rate

The Contract unit rate for wet mix macadam shall be payment in full for carrying out the required operations including full compensation for all components listed in Clause 401.7.

The Measurement of the item shall be in Cum basis.

Item No. 10

Repairing damaged M.H. and raising M.H. up to road level incl. removing damaged brick work and repairing by brick masonry in C.M. 1:5 and plaster in C.M. 1:3 and fixing C.I. steps and existing MH sheet cover, removing the debris from MH and carting the same as directed.(a)upto 0.15mt.(@Two coarse)(b)upto to 0.35mt.(@Four coarse (c)upto 0.65 mt.(@seven Coarse) (d)upto 0.90mt.(@Ten Coarse)

This item relates to repairing work of above item of machine hole with fixing existing seat at top & fixing pre-cast FRC cover (medium duty) repairing up to 2.00 mt. depth. This item relates to repairing existing machine hole of 1.40 x 1.00 or 1.00 x 0.75 mt. size with removing first existing seat & cover including demolishing existing loose masonry work up to from GF level to depth if specified & up to same height brick work in CM 1:5 shall be completed & after of that work plastering work in CM 1:3 shall also be done. Rate including fixing existing or new (if not there) C.I. steps shall fixed at time of masonry work. After completion of brick work & plastering same machine hole seat & cover fixing at top & casted it in C.C. 1:2:4 etc. Measurements shall be given on no. of basis up to 2.00 mt. depth work.

For detailed specification refer R & B Department booklet for General Technical Specification for building works.

Items also includes:

1. Proper Barricading to avoid accidents.
2. Removal of debris from site.
3. Compaction of Bitumen by Roller.
4. Applying tack coat before laying of Hotmix material.

The mode of payment for this item shall be on No. Basis.

Item No. 11

Providing & Supplying ISI Standard RCC pipes (of sulphate resisting cement) in a standard lengths of following class & dia meter suitable for socket-spigot type including all taxes , insurance, transporation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, staking etc complete (IS 458:1989) Class NP-3, test pressure 0.7/kg/sqcm. Rate also includes supplying RCC collar for RCC pipes including taxes, carting, loading, unloading, etc complete. Including labour work for lowering, laying, jointing, RCC pipes in CM 1:1 1/2 of following diameters in proper position, grade and alignment at all as directed by engineer in charge. including conveyance from store to site of work labour giving hydraulic testing and all necessary testing as per IS code .(GWSSB SOR-2022-23, page no:15, Item no:10.2.A & 10.3 & section part 1&2 B labour section, item no:11.B) (RCC pipe Horizontal cast) (a)300 mm internal diameter (b) 450 mm internal diameter (c)600 mm internal diameter.

For relevant Specification of Item as per item description & instruction of Engineer-in-Charge and/or his authorized representative.

The mode of payment for this item shall be on RMT. Basis.

Item No.12

Providing, laying and jointing in true line and level UPVC pipe (SCH-40) of following dia. Including fittings of standard make as approved by Engineer-in-charge.

(a) 15mm (b) 25 mm (c) 40mm (d) 50 mm

Work shall be carried out as per item description including cost of all labour and materials etc. complete as directed. General standard practice of work is applicable.

The measurements shall be on RMT basis.

Item No.13

Providing and supplying, lowering, laying and jointing ISI mark only standard length stoneware pipes of following class and diameter including all taxes (excluding GST), insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. compl. (IS651/1989 or its latest revision) Class AA (a) 100 mm dia (b) 150 mm dia (c) 250 mm dia.

Work shall be carried out as per item description including cost of all labour and materials etc. complete as directed. General standard practice of work is applicable.

The measurements shall be on RMT basis.

ITEM NO.14

Providing 15mm thick cement plaster in single coat on Rough (Similar) side of single or half brickwalls for interior plastering upto floor two level and finished even and smooth in (i) Cement mortar 1:3 (1-cement:3-sand)

Work shall be carried out as per item description including cost of all labour and materials etc. complete as directed. General standard practice of making plastering is applicable.

The measurements shall be on SMT basis.

Item No.- 15

Leveling or orientation of existing gully trap chamber incl. nece. masonry in CM (1:6) and plaster in CM (1:3) etc. using old GT stone and cover etc. comp..

Leveling or orientation of existing gully trap chamber incl. nece. masonry in CM (1:6) and plaster in CM (1:3) etc. using old GT stone and cover etc. comp.

Item No. 16

Constructing Bombay Pattern Type Catch Pit of size 600 mm x 600 mm & depth up to 1000 mm including excavation, B.B.C.C. (1:5:10), 23 cms thick brick masonry wall in the prop. of CM (1:6) with 40 mm thick IPS flooring in the prop M15 at bottom and 15 mm thick cement plaster inside the catch pit in the proportion of CM (1:3) without jali etc. comp. as directed by E.I.C.

600mm x 600mm x 1000mm Depth

For detailed specification refer clause No. 24.44.1 of R & B Department booklet for General Technical Specification for building works

- **Extra Depth of Catch pit size 600mm x 600mm for every additional depth of 100 mm or Part thereof beyond 1000mm depth upto 1500 mm depth**

For detailed specification refer clause No. 24.46 of R & B Department booklet for General Technical Specification for building works.

Mode of measurement and payment

The contractor shall be responsible for any loss or damage to the catch pit up to the end of work. He shall also be responsible for the cleaning all bituminous material from the catch pit.

The rate shall be for a unit of one No.

Item No. 17

Providing F.R.C. MH seat cover incl. carting to the work site etc. comp. Directed.

- A- F.R.C. Extra Heavy Duty (EHD-35) Manhole Covers & Frames Cover :728mm ϕ & 100 mm thick circular cover, 35.00 MT load design,100x2mm MS flat allround, 16mm ϕ plain round bar for lifting the cover & should be fitted with plastic cups. Frame : 560 mm ϕ clear opening,outer size- 888x888x175 mm. On the upper periphery of frame 25 x 3mm wide MS flat should be well embed in concrete to protect theedges of frame. FRC E.H.D.-35 manhole cover & frame described as**
- B- F.R.C. Heavy Duty [HD-20] Machinehole Covers - 560 mm ϕ clearopening, The dimension of frame and cover as per mentioned in Amend No.1 to IS 12592 : 2002 table 1.**
- C- F.R.C. Medium Duty [MD-10] Machinehole Covers - 560mm ϕ clear opening, The dimension of frame and cover as per mentioned in Amend No.1 to IS 12592 : 2002 table 1..**
- D- F.R.C. Medium Duty [MD-10] Chamber Covers & Frame- 600 x 450 mm nclear opening, The dimension of frame and cover as per mentioned in Amend No.1 to IS 12592 : 2002 table 1.**

The rate shall be for a unit No.

Item No. 18

Catch Pit Jali Fixing P/F FRC catch pit jali with frame 600mm x 600mm clear opening etc. comp.. As directed by Engineer-in-Charge and/or his authorized representative.

For detailed specification refer clause No. 24.35 of R & B Department booklet forGeneral Technical Specification for building works.

The contractor shall be responsible for any loss or damage to the catch pit up to the end of work. He shall also be responsible for the cleaning all bituminous material from the catch pit.

The rate shall be for a unit of one No.

Item No. 19

Carting and Fixing M.H., Chamber or Catchpите Seat and Cover in line and level to match exisisting road level in C.C. 1:2:4 and finishing smooth, watering and protecting for 7 days etc. complete as directed. M.H. seat cover will be supplied byA.M.C.(from any store)

- A- Grating(Jali): 690x690x70mm square jali, 5:00 MT load design, 70x2mm MS flat allaround,**

- B- Frame: 600x600mm clear opening, outer size-800x800x120 mm. On the upper periphery of frame 25x3mm wide MS flat should be well embedded in concrete to protect the edges of frame.
- C- FRC Stom Water Grating Cover (Jali) & frame described as above. Refer Drwing
- C- (SET Cover and frame)F.R.C Heavy Duty (HD-20) Machinehole covers & Frames – 560 mm clear opening ,The dimension of frame and cover as per mentioned in Amend No.1 to IS 12592:2002 table 1

The mode of measurnment shall be on No basis.

Item No. 20

Catch Pit Jali Fixing P/F FRC catch pit jali with frame 600mm x 600mm clear opening etc. comp.. As directed by Engineer-in-Charge and/or his authorized representative.

For detailed specification refer clause No. 24.35 of R & B Department booklet forGeneral Technical Specification for building works.

The contractor shall be responsible for any loss or damage to the catch pit up to the end of work. He shall also be responsible for the cleaning all bituminous material from the catch pit.

The rate shall be for a unit of one No.

Item No. 21

Repairing damaged I.C./ Raising removing damaged brick work and repairing by brick masonry in C.M. 1:5 and plaster in C.M. 1:3 and fixing C.I. steps and removing existing chamber sheet cover, removing the debris from chamber and carting the same as directed.

Relevant specification shall be followed as per item description : Repairing damaged I.C./ Raising removing damaged brick work and repairing by brick masonry in C.M. 1:5 and plaster in C.M. 1:3 and fixing C.I. steps and existing chamber sheet cover, removing the debris from chamber and carting the same as directed.

The measurement shall be in Nos. basis of I.C.

Item No. 22

Supplying and fixing of 380 mm H x 300 mm L x 200 mm B Kerb block for Central Verge in M-20 grade using 20 mm nominal size black trap aggregate of Sevaliya/Timba/Ankodiya/Othwad or equivalent quality for pre-cast blocks, reasonably exposed finish/ formwork, mould with well equipped with vibratory system for kerb stones of approved design including curing, etc. complete, including the cost of formwork etc. complete. The rate shall also include necessary cutting of asphalt, fixing the Kerb stones in line and level on 5 cm thick sand bedding with necessary equipments and materials. The rate shall also include the flush pointing in CM (1:3) for all joints of the kerb stones. Filling of zari

alone the sides of the kerb stone fixed with Bituminous concrete mixed in proper position as directed by Engineer in charge to form a portable mixture. In any case Gravel or such type of materials shall not be allowed for production.

Materials:

The specification of following materials shall be conforming with specification mentioned for relevant material / items in General technical specification for building work of R&B Department of Gujarat.

Water shall conform to M-1

Cement to M-2

Sand to M-5

Grit to M-7.

Graded stone aggregate 20 mm. nominal size to M-10

General:

Contractor shall have to manufacture the blocks as per the dimensions given in the drawing. Specific machineries shall be used to manufacture the precast blocks. These machineries should be compatible to produce blocks of required strength and dimensions. The machine shall contain hydraulic Press or advanced equipment to generate required compaction & Grade and finish. Moulds/ Steel Plates/ Dies of the machine shall be dimensionally checked & to be got approved before commencing the production. Contractor shall prepare proper Drying Yard for keeping the blocks before curing. The drying yard shall be levelled and covered so that no shrinkage cracks are formed. Contractor shall prepare adequate size curing pond to cure the blocks for not less than 21 Days. No other means of curing shall be allowed. The technical specification of concrete shall confirm to IS 456-2000. The concrete mix is not required to be designed and only nominal mix as per IS: 456-2000 shall be followed. The proportion of the concrete mix shall be 1:1.5:3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate 20 mm. nominal size) by volume. Concrete work shall have fairly exposed concrete surface or as specified in the item. The designation ordinary M-10, M-15, M-20, M-25 specified as per I.S. corresponds approximately to 1:3:6, 1:2:4, 1:1.5:3 and 1:1:2 nominal mix of ordinary concrete, by volume respectively. The ingredients required for ordinary concrete containing one bag of cement of 50 Kg. by weight (0.0342 m³.) for different proportions of mix shall be as per IS 456-2000. The proportion of the aggregate for the kerb stone shall be modified as per the approval of the engineer-in-charge. The water cement ratios shall not be more than those specified as per IS. The cement of the mix shall be increased, if the quantity of water in a mix has to be increased to overcome the difficulties of placement and compaction so that the water cement ratio specified in the table is not exceeded. The maximum size of coarse aggregate shall be as large as possible within the limits specified but in no case greater than 1/4th of the minimum thickness of the member, provided that the concrete can be placed without difficulty so as to surround all reinforcement thoroughly and to fill the corners of the form. For reinforced concrete work, coarse aggregates having a nominal size of 20 mm. are generally considered satisfactory. Admixture shall be used in concrete only with approval of the Engineer-in-charge based upon the evidence that with the passage of time, neither the compressive strength of concrete is reduced nor are other requisite qualities of concrete impaired by the use of such admixtures.

Proportioning:

Proportioning shall be done by volume, except cement which shall be measured in terms of bags of 50 kg weight. The volume of one such bag can be taken as 0.0342 m³. Boxes of suitable sizes shall be used for measuring sand and aggregate. The size of the boxes (internal) shall be 30cm. x 30 cm. and 38 cm. deep. While measuring the aggregate and sand, the box shall be filled without shaking ramming or hammering. The proportioning of sand shall be on the basis of its dry volume and in case of damp sand; allowances for bulk age shall be made.

Mixing:

For all work, concrete shall be mixed in a mechanical mixer which along with other accessories shall be kept in first class working condition and maintained throughout the construction. Measured quantity of aggregate, sand, and cement required for each batch shall be poured into the drum of the mechanical mixer while it is continuously running. After about half a minute of dry-mixing, measured quantity of water required for each batch of concrete mix shall be added gradually and mixing continued for another one and a half minute. Mixing shall be continued till materials are uniformly distributed and uniform colour of the entire mass is obtained and each individual particle of the coarse aggregate shows complete coating of mortar containing its proportionate amount of cement. In no case shall the mixing be done for less than 2 minutes after all ingredients have been put into the mixer. Mixers which have been out of use for more than 30 minutes shall be thoroughly cleaned before putting in a new batch. Unless otherwise agreed to by the Engineer-in-charge, the first batch of concrete from the mixture shall contain only 2/3rds of normal quantity of coarse aggregate. Mixing plant shall be thoroughly cleaned before changing from one type of cement to another.

Consistency:

The degree of consistency which shall depend upon the nature of the work and methods of vibration of concrete shall be determined by regular slump tests in accordance with IS: 1199-1959. The slump of 10 mm. to 25 mm. shall be adopted when vibrators are used.

Inspection:

All Moulds shall be cleaned and made free from standing water, dust, snow, or ice immediately before placing of concrete.

Formwork/Metal Mould for exposed concrete surface (If indicated):

All the moulds shall be checked for exact dimensions of the precast blocks. All the edges of the precast blocks shall confirm the profile of the final drawing & edges/ curvatures of the moulds shall be checked accordingly. Moulds shall be regularly checked for correctness of dimensions of Blocks, twists, bends due to handling, etc. Before starting every days work.

Care shall be taken to set all form work/Mould in perfect line, level (or in required camber or slope as specified) and plumb. Form work/Mould propping shall be strong, rigid, and sturdy. The form work/Mould shall be as per pattern & design shown in drawings. Form work/Mould shall be done accurately and precisely so as to achieve neat, clean and smooth concrete surface, in line, level and plumb. Clinks, twists, offsets, warps, riveting etc. in plates or forms shall not be allowed. Before placing concrete, forms shall be thoroughly cleaned off of all rust, dust, and loose materials. Colourless oil or grease of approved quality shall be applied before placing steel. Also the form work material will be of wood/plywood/steel or any sort of such material, as approved by the Engineer-in-Charge and/or his authorized representative; so that all exposed concrete surfaces have uniform colour.

For all kind of exposed concrete work only one brand (to be approved by the Engineer-in charge) of cement shall be used.

Removal of Moulds:

Specific time shall be identified for removal of moulds, such that the concrete of the precast blocks shall gain strength to withstand the stresses generated due to self weight and handling to drying yards without any deformation to shape/ dimensions/ edges.

Drying Period:

Sufficient time shall be given to the block after it is removed from the mould so that it can gain strength and dry in shade to prevent any cracks due to shrinkage. This shall be done in drying yards.

Curing Period:

Curing of block shall be done only in curing pond and curing shall be done for minimum 14 days.

Drying period after removing from pond & before delivery to site: Water should be drained of from the block before it is actually sent to the site. Time should be provided for proper draining of water which may be present in the block kept for curing in the pond.

Precautions:

Precaution shall be taken while transporting of the blocks to site.

The blocks should be loaded and unloaded with due care so as to avoid generation of stresses leading to breaking of block. Care should be taken to prevent the block from breaking during transporting.

Fixing:

The pits of the size 150mm in width and required depth shall first be excavated, true to line and level. The relevant specifications of item A- 1 shall be followed for excavation work. The pits shall be filled with a layer of 50mm. thick sand bedding. The curbs then shall be placed in position of which 50mm. shall be below road. Care should be taken to maintain proper line and level. The joints between the kerbs shall be pointed with C.M. 1:2 and cured for minimum seven days.

Sampling and testing of concrete:

Samples from fresh concrete shall be taken as per IS : 1199-1959 and cubes shall be made, cured and tested at 7 days or 28 days as per requirements in accordance with IS : 516-1959. A random sampling procedure shall be adopted to ensure that each concrete batch shall have a reasonable chance of being tested i.e. the sampling should be spread over the entire period of concreting and cover all mixing units.

NOTE:

At least 1 sample shall be taken from each shift. Ten test specimens shall be made from each sample, 5 for testing at 7 days, and the remaining 5 at 28 days. The samples of concrete shall be taken on each

day of the concreting as per above frequency. The number of specimens may be suitably increased as deemed necessary by the Engineer-in-charge when procedure of tests given above reveals a poor quality of concrete and in other special cases. The average strength of the group of cubes cast for each day shall not be less than the specified cube strength of 200 Kg/cm² at 28 days. 20% of the cubes cast for each day may have value less than the specified strength provided the lowest value is not less than 85% of the specified strength. If the concrete made in accordance with the proportions given for a particular grade, does not yield the specified strength, such concrete shall be classified as belonging to the appropriate lower grade. Concrete made in accordance with the proportions given for a particular grade shall not, however, be placed in a higher grade on the ground that the test strength are higher than the minimum specified. If rock pockets/honeycombs in the opinion of Engineer-in-charge are of such an extent or character so as to affect the strength of the structure, materially or to endanger the life of the steel reinforcement, he may declare the concrete defective and require the removal and replacement of the portion of the structure affected.

Precast Kerb Stones:

The relevant specifications of concreting as per item above shall be followed except that work shall be carried out for precast concrete kerb stones as specified in the item. All Precast members shall be cast at workshop. Sufficient curing shall be done before placement of the same the method of transporting and placing the precast members shall be as approved by the Engineer-in-charge. Members shall be so transported that no breakage or undue stresses are induced in them. If required, all members shall have a key provided on both the faces i.e top and bottom surfaces, of adequate size so as to fill the same with concrete while laying. The function of this key is to avoid the leakage through the joint between the precast member and the member on which it is laid.

Mode of Measurements and Payment :

The rate shall include cost of formwork and cost of reinforcement. The volume occupied by reinforcement shall not be deducted from R.C.C. work.

The rate shall be for a unit of Rmt.

Item No. 23

Supplying and fixing of 300 mm-L x 150 mm-B x 380 mm-H Kerb block for Footpath in M-20 grade using 20 mm nominal size black trap aggregate of Sevaliya/Timba/Ankodiya/Othwad or equivalent quality for pre-cast blocks, reasonably exposed finish/ formwork , mould with well equipped with vibratory system for kerb stones of approved design including curing, etc. complete, including the cost of formwork etc. complete. The rate shall also include necessary cutting of asphalt, fixing the Kerb stones in line and level on 5 cm thick sand bedding with necessary equipments and materials. The rate shall also include the flush pointing in CM (1:3) for all joints of the kerbstones. Filling of zari along the sides of the kerb stone fixed with Bituminous concrete mixed in proper position as directed by Engineer in charge to form a portable mixture. In any case Gravel or such type of materials shall not be allowed for production.

Specification as per Item No. 42 only size of kerb as mentioned in Abstract.

Item No. 24

Pre cast concrete kerb Providing and fixing M25 Grade of concrete precast exposed / Fair finish / texture finish kerb stones of approved make as per approved sample of any size and any type. Kerbs shall be fixed on the foundation prepared as per approved design. The rate shall also include for erecting and fixing the pieces in position for complete kerb system with chamfered type of kerbs including necessary accessories of kerb like radius kerb, angles and quadrant kerbs, droplet kerbs etc. complete as per drawing. Kerb shall be fixed as paper joint without any jointing material. However cement mortar shall be provided at the backside of kerb stone joint. (Sample must be approved) Cost of excavation, cutting , base , side filling shall includes as directed engineer - incharge in above item description as per BOQ (a) 450 mm high median kerb*600*150mm

Specification as per Item No. 26

Item No. 25

Pre cast concrete kerb Providing and fixing M25 Grade of concrete precast exposed / Fair finish / texture finish kerb stones of approved make as per approved sample of any size and any type. Kerbs shall be fixed on the foundation prepared as per approved design. The rate shall also include for erecting and fixing the pieces in position for complete kerb system with chamfered type of kerbs including necessary accessories of kerb like radius kerbs, angles and quadrant kerbs, droplet kerbs etc. complete as per drawing. Kerb shall be fixed as paper joint without any jointing material. However cement mortar shall be provided at the backside of kerb stone joint. (Sample must be approved) Cost of excavation, cutting , base , side filling shall includes as directed engineer - incharge in above item description as per BOQ (b) 380 mm high Footpath kerb*600*150mm

Material: (1) Water shall conform to M-1. (2) Cement shall conform to M-3. (3) Sand shall conform to M-6. (4) Stone aggregate shall conform to M-12 (5) Pre cast kerb shall be of approved make and as per approved sample.

1.0 Workmanship :

2.1 All Precast exposed/ fare finish/ texture finish kerb stones shall be of approved make. Sufficient curing shall be done before placement of the same.

2.2 The method of transporting and placing the precast members shall be as approved by the Architect and Engineer-in-charge. Members shall be so transported that no breakage or undue stresses are induced in them.

2.3 The pits of the size 0.15 M in width and 0.23 M. in depth or as per site condition shall first be excavated, true to line and level. The specifications for excavation shall be followed as per relevant item.

2.4 The pits shall be filled with a layer of 0.15 M. thick lean concrete M15. The kerbs shall be laid on existing PCC base in true line and plumb. The specifications for PCC work shall be followed as per relevant item.

2.5 The rate shall also include for erecting and fixing the pieces in position for complete Kerb systems with Chamfered type of kerbs including all type of necessary accessories of kerb like Radius Kerbs, Angles and Quadrant Kerbs, inlet kerb etc complete as per drawing.

The rate shall also include the flush pointing in CM (1:2) for all joints of the kerb stones.

3.0 Mode of Measurement & Payment:

3.1 The rate shall include the cost of material and labour for fixing the kerb system including laying, jointing and finishing but excluding the cost of excavation, bitumen cutting, base PCC, zari filling with bitumen material

3.2 The Measurement of the item shall be in Rmt basis.

Item No. 26

Providing and fixing pre-cast concrete kerb stone of gray cement based concrete block 30cm length, 30cm height and 15cm thick of M200 grade concrete as per approved design and including excavation for fixing in proper line and level, filling the joint with C:M 1:3 (1cement:3fine sand) etc complete.

Work shall be carried out as per item description including cost of all labour and materials etc. complete as directed. General standard practice of work is applicable.

Measurements for Payment:

The rate shall be for a unit of one Running meter.

Item No.27

Supplying and fixing for central verge 230 mm L x 235 mm Width x 680 mm H Supplying & Fixing in M-20 grade using 20 mm nominal size black trap aggregate of Sevaliya/Timba/Ankodiya/Othwad or equivalent quality for pre-cast blocks, reasonably exposed finish/formwork, mould with well equipped with vibratory system for kerb stones of approved design including curing, etc. complete, including the cost of formwork etc. complete. The rate shall also include necessary cutting of asphalt, fixing the kerb stones in line and level on 5 cm thick sand bedding with necessary equipments and materials. The rate shall also include the flush pointing in CM(1:3) for all joints of the kerbstones. Filling of Zari along the sides of the kerb stone fixed with bituminous concrete mixed in proper position as directed by engineer in charge to form a portable mixture. In any case gravel or such type of materials shall not be allowed for production.

Work shall be carried out as per item description including cost of all labour and materials etc. complete as directed. General standard practice of work is applicable.

The measurements shall be on Rmt basis.

Item No.28

Providing and Laying of Rubber Moulded Paver Block Grey/Coloured 60 mm thick, M-35 Grade of any size ; shape (Usually Uni-Paver Blocks) using black trap good quality aggregate of 20 mm nominal size for footpath, parking areas, service lanes and other areas as mentioned in the drawing / instruction of Engineer-in-Charge and/or his authorized representative. Cost includes formworks using rubber mould, Rate providing and laying paver blocks as per required grading and specification. The paver block shall be mechanically compacted. The work of paving blocks shall be executed in line and level by skill mason of flooring work only. It should be laid in such a way that the no cutting of the paver block to be necessary. if cutting of paver block necessary then it should be cut by machine only and carting. The finished surface of the paver block shall have reasonably good, plain finished. Paver blocks shall be compacted and shall be relaid if necessary. Gravel or such type of materials shall not be allowed for production. Laying on 50 mm thick sand bedding.

- **Laying on 50 mm thick sand bedding.**

28.1 Scope of work :

Excavation and compaction up to 300 mm in height for footpath paving in all sorts of soil murrumincluding sorting outs and stacking of useful materials stuff up to 50mt.

The scope of work includes manufacturing, supplying, and lying of precast paver blocks at various Retail outlets. The work includes: Verification of the existing site condition and advising our project in charge to lay suitable base course if required. Contractors are required to satisfy themselves with quality of sub grade, sub-base course before the paver blocks are laid and suggest strengthening if required.

Clearing the site by removing all obstacles such as stones, debris etc. for laying of paver blocks. Manufacturing of paver blocks in your plant as per requirements in technical specification enclosed. Supplying of paver blocks at site, including handling at both ends.

Laying of paver blocks at site as per requirement in technical specification on 50 mm thick sand bedding, within shortest possible time the site is public place hence care should be taken to ensure that the routine activities should not be disturbed. The job of laying may required to be carried out during night also.

Testing of paver blocks shall through reputed Govt. /Non Govt. Test house only and submission of test results as per requirements in Technical Specifications. AMC reserves the right to carryout test at random. Cost for such tests to be borne by party. The contractor shall guarantee that all material and components designed, fabricated, supplied, and laid by him shall be free from any type of defect due to

faulty material and/or workmanship/erection for a period of One year from the date of completion of work. However, the contractor one year's shall render free maintenance.

TECHNICAL SPECIFICATIONS:

28.2 Paver Block Manufacturing Facilities:

The Paver Block shall be made in factory with following minimum facilities:

28.2.1 Concrete Block making Machines:

The machine should be capable of producing high quality Paver Blocks by obtaining high level of compaction by application of hydraulic compaction and also by high intensity vibration to the moulds. The machine should have automatic control panel for uniformity in strength.

28.2.2 Concrete Batching & Mixing Plant: (Not essential)

The concrete Mix Design should be followed for each batch of materials. The concrete ingredient should be mixed in concrete Batching & Mixing plant with minimum capacity of 30 cum/hour. The plant should equipped with automatic control panel for maintaining water cement ratio from batch to batch to obtain concrete of uniform quality and strength. The plant should be equipped with adequate mechanism for mechanized loading of raw materials into mixer and conveyor belt for transportation of concrete from mixer to concrete block making machine to maintain quality of wet cement.

Curing:

28.2.3 The factory should have well designed curing area to ensure adequate curing of paver blocks.

28.2.4 Laboratory (Desirable but not essential) :

The testing equipment should have required in the Laboratory as per the following:

A Compression testing machine of adequate capacity.

Other tools and equipment for testing raw materials and paver blocks.

Systematic record of test results of various paver blocks manufactured in the factory.

Concrete Mix Design for various grade of concrete used for making of paver blocks.

28.3 Specifications For Coloured Paver Blocks:

Coloured concrete paver blocks shall be manufactured as per attached specifications using or equivalent approved colour Pigment of "BAYER" Make "BAYFERROX IRONOXIDE PIGMENTS" with minimum colour pigment of 3% by weight of cement. The colour shade shall be "RED" as selected by AMC before commencement of the work. White cement shall be used for colored pavers to obtain the desired colour shade. The job also includes providing 50 mm thick sand bedding to match the shade of the paver block.

The colour of the paver block shall be guaranteed against fading of colour for period of 12 months from the date of laying of the same at site.

All other technical specifications & Procedure for testing, laying & sampling of coloured pavers will be as per attachment.

28.4 Pavers Block Characteristics:

The concrete pavers should have perpendicularities after release from the mould and the same should be retained until the laying. The surface should be reasonably smooth and of anti skid and anti glare type. The paver should have uniform chamfers to facilitate easy drainage surface run off. The pavers should have uniform interlocking space of 2mm to 3mm to ensure compacted sand filling after vibration on the paver Surface. The concrete mix design should be followed for each batch of materials separately and automatic batching plant is to be used to achieve uniformity in strength and quality. The pavers shall be manufactured in single layer only. Skilled labour should be employed for laying blocks to ensure line and level of laying, desired shape of the surface and adequate compaction of the sand in the joints. The pavers shall be of cement gray colour without any pigment & for coloured pavers refer "specifications for coloured pave" The pavers are to be skirted all round with kerbing using solid concrete blocks of size 150mm X 250mm X 380mm. The kerbing should be embedded for 100mm depth. The concrete used for kerbing shall be cured properly for 7 days minimum.

28.5 Paver Block Dimensions:

Thickness	60 mm
Shape	Unipaver, I shape or directed by Addl.C.E.
Chamfer	4mm to 6mm along top edges
Colour	Natural cement grey colour without use of any pigment. For coloured pavers refer "specifications for coloured pavers"
Dimensional Tolerance	(+/-) 2mm for length & width, (+/-) 3mm for Height (Thickness)

28.6 Testing of Paver Blocks :

SR. NO.	* TEST	Average Values	Frequency
1.	Compressive Strength	Min. 35 N/Sq mm for 60mm thick	250 Smt / 1 Test
2.	Flexural Strength	Minimum 4.5 N/Sq mm	
3.	Abrasion Resistance	Maximum 1.5	
4.	Water Absorption	Maximum 5.80%	

* Sampling and testing procedure as per enclosed specifications

28.7 Sampling and Testing Procedure for Paver Blocks

Sample Size:

INTERNAL – Average of minimum 3 samples per 5000 Blocks.

28.7.1 Sampling for Testing

Sampling of Paver blocks.

Method of sampling :

Before laying paver blocks, each designated section comprising not more than 50000 blocks, shall be divided into ten approximately equal groups. Three blocks shall be drawn from each group.

Marking and identification :

All samples shall be clearly marked at the time of sampling in such a way that the designated section of part thereof, and the consignment represented by the sample, are clearly defined.

The sample shall be dispatched to the approved test laboratory taking precaution to avoid damage to the paving in transit. Protect the paving from damage and contamination until they have been tested. The testing shall be carried as soon as possible, after the sample has been taken. As soon as practicable after sampling. The samples shall be stored in water at 20 degree C \pm 5 degree C for 24 hours prior to testing.

The item is to be executed as per instructions and to the entire satisfaction of Engineer-in-Charge and/or his authorized representative using Rubber mould and Table vibrator for Kerb instead of mechanical press system.

Extra rate for excavation of asphalt payment of any thickness including demolishing the asphalt carpet, metal, soling etc. complete with stacking the materials as directed. The road surface of asphalt shall carefully be opened to full width as directed by the Engineer-in-Charge and/or his authorized representative.

Excavation area shall be properly identified and marked in rectangular shape. The road crust shall be opened up to entire depth i.e. including soling. All the materials shall be separately deposited in such a way and in places as may be determined by the Engineer-in-Charge and/or his authorized representative. In case rubble not being so deposited or being mixed up with the excavated materials will not be allowed for refilling. The cost of materials shall be charged from the contractor. The decision of the C.E. shall be final and binding to the contract

Laying

For detailed specification for Laying of Paver Block on sand bedding, refer R & B Department booklet for General Technical Specification for building works.

The rate shall be for a unit of SMT

Item No.29

Providing and laying of interlocking grey paver blocks of high density 80mm thick made from M-40 grade concrete using 6 mm to 20 mm machine crushed well graded stone aggregate, sand of approved quality, OPC 53 grade cement with contractor's own concrete mix design as approved by AMC, for parking, road. Cost Includes formwork, using rubber/FRP mould, laying paver block as per required grading and specification laid paver block shall be mechanically compacted. The work of the paving blocks shall be executed in line and level by skilled mason of flooring work only. It should be laid in such a way that the no cutting of the paver block to be necessary. Cutting of paver block by machine cut only and carting to be done. The Finished surface of the Paver Block shall have reasonably good plain finish. Paver blocks shall be compacted and shall be re-laid if necessary. Gravel or such type of materials shall not be allowed for production. Laying on 5 Cms thick sand bedding.(AMC approved Rate)

For relevant Specification of Item as per item description & instruction of Engineer-in-Charge and/or his authorized representative.

The mode of payment for this item shall be on RMT. Basis.

Item No.30

Paver Block

Providing and laying shot blasted Non - interlocking, Paver blocks of specified thickness, size, grade of concrete and colour machine made and blasting by automatic shot blasting machine and high density of as per approved sample of approved make for footpath, parking areas, service lanes, cross over and other areas as mentioned in the drawing. Including providing and laying 50 mm thick average bedding layer of coarse sand below paver block as per required grading and specification. Laid paver block shall be mechanically compacted. The work of the paving blocks shall be executed in line and level by skilled mason of flooring work only. Small size of paver block with same specification shall be used at residue or at end. It should be laid in such a way that the no cutting of the paver block to be necessary. If cutting of paver block shall be required , than cut by machine only and laying to be done by skilled flooring mason. The finished surface of the paver block shall have coarse sand Texture Finish. Pave blocks shall be compacted and shall be re-laid if necessary. Actual laid area shall be measured and paid without any wastage. (A) 60 mm thick M-35 grade Grey Paver block of size 200mm x 200mm.

Specification as per Item No. 31

Item No. 31

Paver Block

Providing and laying shot blasted Non - interlocking, Paver blocks of specified thickness, size, grade of concrete and colour machine made and blasting by automatic shot blasting machine and high density of as per approved sample of approved make for footpath, parking areas, service lanes, cross over and other areas as mentioned in the drawing. Including providing and laying 50 mm thick average bedding layer of coarse sand below paver block as per required grading and specification. Laid paver block shall be mechanically compacted. The work of the paving blocks shall be executed in line and level by skilled mason of flooring work only. Small size of paver block with same specification shall be used at residue or at end. It should be laid in such a way that the no cutting of the paver block to be necessary. If cutting of paver block shall be required, then cut by machine only and laying to be done by skilled flooring mason. The finished surface of the paver block shall have coarse sand Texture Finish. Pave blocks shall be compacted and shall be re-laid if necessary. Actual laid area shall be measured and paid without any wastage. (A) 80 mm thick M-35 grade Grey Paver block of size 200mm x 200mm.

1.0 The scope of work: It includes supplying and laying of Precast shot blasted by automatic shot blasting machine in factory (not on site) paver blocks at footpath, parking area, service lane and other areas.

The work includes:

- 1.1 Paver block should be laid over prepared sub grade.
- 1.2 Clearing the site by removing all obstacles such as stones, debris etc. for laying of paver blocks.
- 1.3 Manufacturing of paver blocks by one of the approved suppliers as per requirements in technical specification enclosed.
- 1.4 Supplying of paver blocks at site, including handling at both ends. The type of paver block may be interlocking or non-interlocking.
- 1.5 Providing and laying average 50 mm coarse sand bedding for laying blocks.
- 1.6 Laying of paver blocks at site as per requirement in technical specification, within shortest possible time.
- 1.7 Testing of paver blocks through reputed Govt. /Non Govt. Test house and submission of test results as per requirements in Technical Specifications. Client reserves the right to carry out test at random. Cost for such tests to be borne by contractor.
- 1.8 The contractor shall guarantee that all material and components designed, fabricated, supplied and laid by him shall be free from any type of defect due to faulty material and/or workmanship/erection for a period of five year from the date of completion of work at individual sites. However, the contractor for five years shall render free maintenance.

2.0 Technical Specifications:

2.1 Paver Block Manufacturing Facilities:

The Paver Block shall be made in factory with following minimum facilities:

Concrete Block making Machines:

The machine should be capable of producing high quality Paver Blocks by obtaining high level of compaction by application of hydraulic compaction and also by high intensity vibration to the moulds. The machine should have automatic control panel for uniformity in strength.

Concrete Batching & Mixing Plant: (Not essential) The concrete Mix Design should be followed for each batch of materials. The concrete ingredient should be mixed in concrete Batching & Mixing plant with

minimum capacity of 30 cum/hour. The plant should be equipped with automatic control panel for maintaining water cement ratio from batch to batch to obtain concrete of uniform quality and strength. The plant should be equipped with adequate mechanism for mechanized loading of raw materials into mixer and conveyor belt for transportation of concrete from mixer to concrete block making machine to maintain quality of wet cement.

Curing:

The factory should have well designed curing area to ensure adequate curing of paver blocks. Steam curing facility of the paver blocks is preferable.

Laboratory (Desirable but not essential) :

The factory should have the following:

Compression testing machine of adequate capacity.

Other tools and equipment for testing raw materials and paver blocks.

(1) Systematic record of test results of various paver blocks manufactured in the factory.

(2) Concrete Mix Design for various grade of concrete used for making of paver blocks.

2.2 Specifications for Coloured Paver Blocks:

Colour concrete paver blocks shall be manufactured as per attached specifications using approved colour Pigment of iron oxide of approved brand like Bayer, Tata etc. with minimum colour pigment of 3% by weight of cement. The colour shade shall be as selected by Architect before commencement of the work. The job also includes providing 50 mm thick sand bedding to match the shade of the paver block.

The colour of the paver block shall be guaranteed against fading of colour for period of 12 months from the date of laying of the same at site.

All other technical specifications & Procedure for testing, laying & sampling of Color pavers will be as per attachment.

2.3 Paver Block Characteristics:

The concrete pavers should have perpendicularities after release from the mould and the same should be retained until the laying.

The surface should be reasonably smooth and of anti skid and anti glare type. The paver should have uniform chamfers to facilitate easy drainage surface run off.

The pavers should have uniform interlocking space of 2mm to 3mm to ensure compacted sand filling after vibration on the paver Surface.

The concrete mix design should be followed for each batch of materials separately and automatic batching plant is to be used to achieve uniformity in strength and quality.

The pavers shall be manufactured in Double layer only.

Skilled labour should be employed for laying blocks to ensure line and level of laying, desired shape of the surface and adequate compaction of the sand in the joints.

2.4 Paver Block Dimensions:

Thickness	60mm
Layers	Double layered, top layer minimum 8 to 10 mm
Shape	Irregular (Uniform Shape with no Hollow Or Cracks) / as per drawing
Chamfer	4mm to 6mm along top edges
Colour	Natural cement grey Colour without use of any pigment. For Colour pavers refer "specifications for Colour pavers"

Dimensional	(+/-) 2mm for length & width,
Tolerance	(+/-) 3mm for Height (Thickness)

2.5 Testing of Paver Blocks:

* Sampling and testing procedure as per enclosed specifications

3.0 Sampling & Testing Procedures for Paver Blocks:

3.1 Sample Size:

INTERNAL – Average of minimum 3 samples per 10000 Blocks for compressive strength and water absorption.

EXTERNAL – Minimum 2 Blocks per 10000 blocks for abrasion and flexure.

3.2 Sampling For Testing: Sampling for testing of paver blocks shall be done in accordance with Appendix-A.

Compressive Strength: Testing for compressive strength shall be undertaken in accordance with Appendix-B. The average compressive strength of the blocks tested shall be 30/40 N/Sq.mm as per thickness.

Abrasion Resistance: Testing for abrasion shall be in accordance with IS 1237 (Specifications for Cement Concrete Floor Tiles).

Flexural Strength: Testing for flexural shall be in accordance with IS 1237 (Specifications for Cement Concrete Floor Tiles).

Water Absorption: Testing for water absorption shall be in accordance with IS 2185:1979: Part I (Specifications for Concrete Masonry Units).

APPENDIX A

Method of sampling: Before laying paver blocks, each designated section comprising not more than 10000 blocks, shall be divided into five approximately equal groups. One block shall be drawn from each group i.e. 3 for internal testing and 2 for external testing.

Marking and identification: All samples shall be clearly marked at the time of sampling in such a way that the designated sections of part thereof, and the consignment represented by the sample, are clearly defined. The sample shall be dispatched to the approved test laboratory taking precaution to avoid damage to the paving in transit. Protect the paving from damage and contamination until they have been tested. The testing shall be carried as soon as possible, after the sample has been taken. As soon as practicable after sampling. The samples shall be stored in water at 20 degree °C for 24 hours prior to testing.

SR.NO.	* TEST	SPECIFICATION Average Values (Average of Minimum Five Samples/Site)
1.	Compressive Strength	Min. 30 N/Sq.mm for 60mm thick and Min. 40 N/Sq.mm for 80mm thick
2.	Flexural Strength	Minimum 3.80 N/Sq.mm and 4.5 N/ Sq. mm for 60 and 80 mm thick paver block respectively.
3.	Abrasion Resistance	Maximum 1.5
4.	Water Absorption	Maximum 5.80%
5.	Minimum Cement Content	380 Kg/Cum for M 30 concrete and 430 Kg/Cum for M 40 concrete

3.0 Sampling & Testing Procedures for Paver Blocks:

3.1 Sample Size:

INTERNAL – Average of minimum 3 samples per 10000 Blocks for compressive strength and water absorption.

EXTERNAL – Minimum 2 Blocks per 10000 blocks for abrasion and flexure.

3.2 Sampling For Testing: Sampling for testing of paver blocks shall be done in accordance with Appendix-A.

Compressive Strength: Testing for compressive strength shall be undertaken in accordance with Appendix-B. The average compressive strength of the blocks tested shall be 30/40 N/Sq.mm as per thickness.

Abrasion Resistance: Testing for abrasion shall be in accordance with IS 1237 (Specifications for Cement Concrete Floor Tiles).

Flexural Strength: Testing for flexural shall be in accordance with IS 1237 (Specifications for Cement Concrete Floor Tiles).

Water Absorption: Testing for water absorption shall be in accordance with IS 2185:1979: Part I (Specifications for Concrete Masonry Units).

APPENDIX A

Method of sampling: Before laying paver blocks, each designated section comprising not more than 10000 blocks, shall be divided into five approximately equal groups. One block shall be drawn from each group i.e. 3 for internal testing and 2 for external testing.

Marking and identification: All samples shall be clearly marked at the time of sampling in such a way that the designated sections of part thereof, and the consignment represented by the sample, are clearly defined.

The sample shall be dispatched to the approved test laboratory taking precaution to avoid damage to the paving in transit. Protect the paving from damage and contamination until they have been tested. The testing shall be carried as soon as possible, after the sample has been taken. As soon as practicable after sampling. The samples shall be stored in water at 20 degree C \pm 5 degree C for 24 hours prior to testing.

APPENDIX B

Test For Compressive Strength:

Testing Machine: The testing machine shall be of suitable capacity for the test and capable of applying the load of the rate specified. It shall comply, as regards repeatability and accuracy, with the requirements of clause 2.1 of BS: 1881-Part 4.

Procedure: The sample specimen shall be tested in a wet condition after being stored for at least 24 hours in water maintained at a temperature of 20 °C + or – 5 °C. Before the specimens are submerged in water, the necessary area shall be determined.

The plates for testing machines shall be wiped clean and any loose grit or other material removed from the contact faces of the specimen. Plywood, nominally 4 mm thick shall be used as packing between the upper and lower faces of the specimen and the machine plates and these boards shall be larger than the specimen by the margin of at least 5 mm

at all points. Fresh Packing shall be used for every specimen tested.

The specimen shall be placed in the machine with the wearing surface in the horizontal plane and in such a way that the axes of the specimen are aligned with those of the machine plates.

The load shall be applied without shock and increased continuously at the rate of approximately 15 N/ Sq.mm per minute until no greater load can be sustained. The maximum load applied to the specimen shall be recorded.

Calculation of corrected strength for individual Blocks: The compressive strength of each block specimen shall be calculated by dividing the maximum load by full cross section area of the block and multiplying with an appropriate factor of:-

- a) For 100 mm thick blocks – 1.24
- b) For 80 mm thick blocks – 1.18
- c) For 60 mm thick blocks – 1.06

Compressive Strength Calculation: The average corrected compressive strength for the designed block section shall be calculated.

4.0 Method of laying:

Blocks shall be placed on the sand bedding etc. which were well rammed so as to act as firm bed. Blocks shall be laid in such manner that no gap shall be left in between. Blocks so laid shall be compacted by means of mechanical compactor or equivalent compacting method so as to obtain required finished surface. All the joints shall be matched and if any manufacturing defect is detected the lot shall be replaced and relaying shall be done with out any extra cost up to satisfaction of Engineer in charge.

50 to 80mm thick coarse sand shall be laid as cushioning layer for arranging the paver blocks. Joints of the paver blocks shall be filled with the sand.

The paver blocks shall be laid properly on the prepared sub-base as per manufacturer's specification and as per Architect and Engineer-in-charge's instruction.

Paver block shall be laid by the approved agency only. If manufacturer of the paver block providing the laying services, then it shall be laid through the supplying agency only. The labourers for paver block fixing shall be skilled flooring mason only. Only cutting tool shall be used for cutting the paver block. Full depth cutting toll shall be used for proper finished surface after cutting. Manual cutting or breaking of the paver block is not permitted.

After laying of the paver block fine sand shall be spread over it and paver block shall be compacted with mechanical compactor. Any settlement or undulation in the laid area shall be repaired immediately.

5.0 Mode of Measurement and payment:

Measurement shall be done as per actual area laid without considering any wastage.

The Measurement of the item shall be in Sqmt basis.

Item No. 32

Labour work of fixing kurb any design of central verge, (both side) footpath kurb, items includes necessary excavation, asphalt cutting of any thickness, erecting in line and position and pointing with cement mortar (1:3), watering, etc complete, filling with zari along the side of the kurb, the kurb stone fix prepared with bitumnious top surface, as directed by engineer in charge.

Work shall be carried out as per item description including cost of all labour and materials etc. complete as directed. General standard practice of laying of paver block is applicable.

The measurements shall be on RMT basis.

Item No.33

Paver Block Providing and laying, Dished Channel specified thickness, size, grade of concrete and colour machine made and blasting by automatic shot blasting machine and high density of as per approved sample of approved make for suite drain besides paking area and other areas as mentioned in the drawing. Including providing and laying 50 mm thick average bedding layer of coarse sand below dished channel as per required grading and specification. Laid dished channel shall be mechanically compacted. The work of the dished channel shall be executed in line and level by skilled mason. Small size of dished channel with same specification shall be used at residue or at end. If cutting of dished channel shall be required , than cut by machine only and laying to be done by skilled flooring mason. Actual laid area shall be measured and paid without any wastage. (A) 600 mm X 300 mm X 100 mm thick M-25 grade Grey dished curved channel

As per item decription or as decided by engineer in charge.

The Measurement of the item shall be in rmt.

Item No.34

Supply and installation of concrete bollard of size 300mm diameter x 900mm height, constructed using M-30 concrete and 4nos 8mm dia MS Fe500 reinforcement through the section as directed by EIC including supply of all material, labour and equipment upto any lead and lift

For relevant Specification of Item as per item description & instruction of Engineer-in-Charge, M.O.R.T & H. latest Specifiaction& IS CODE and/or his authorized representative. refer R & B Department booklet for General Technical Specification for building works.

The mode of payment for this item shall be on No. Basis.

ITEM NO:-35

Construction of RCC nosing in central verge using M-200 grade cement concrete. The item includes cost of centering & shuttering, reinforcement, both side cement plaster in C:M 1:3 mortar & curing etc. complete. Half round portion of the nosing shall be made by using mild steel.

Work shall be carried out as per item description including cost of all labour and materials etc. complete as directed. General standard practice of work is applicable.

As per Item and instructed by engineer incharge

The rate shall be for a unit of Nos

Item No. 36

Providing, supplying and fixing precast C.C. blocks (M-20) edge kerb having size of 75 x 300 x 300 mm depth and as per design conveying it to the site, jointing into C:M 1:3 and racking out the joints incl. necessary excavation of asphalt, soil etc..completed.

Materials:

The specification of following materials shall be conforming with specification mentioned for relevant material / items in General technical specification for building work of R&B Department of Gujarat.

Water shall conform to M-1 Cement to M-2

Sand to M-5 Grit to M-7.

Graded stone aggregate 20 mm. nominal size to M-10

General:

Contractor shall have to manufacture the blocks as per the dimensions given in the drawing. Specific machineries shall be used to manufacture the precast blocks. These machineries should be compatible to produce blocks of required strength and dimensions. The machine shall contain hydraulic Press or advanced equipment to generate required compaction & Grade and finish. Moulds/ Steel Plates/ Dies of the machine shall be dimensionally checked & to be got approved before commencing the production. Contractor shall prepare proper Drying Yard for keeping the blocks before curing. The drying yard shall be levelled and covered so that no shrinkage cracks are formed. Contractor shall prepare adequate size curing pond to cure the blocks for not less than 21 Days. No other means of curing shall be allowed. The technical specification of concrete shall conform to IS 456-

2000. The concrete mix is not required to be designed and only nominal mix as per IS: 456-2000 shall be followed. The proportion of the concrete mix shall be 1:1.5:3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate 20 mm. nominal size) by volume. Concrete work shall have fairly exposed concrete surface or as specified in the item. The designation ordinary M-10, M-15, M-20, M-25 specified as per I.S. corresponds approximately to 1:3:6, 1:2:4, 1:1.5:3 and 1:1:2 nominal mix of ordinary concrete, by volume respectively. The ingredients required for ordinary concrete containing one bag of cement of 50 Kg. by weight (0.0342 m³.) for different proportions of mix shall be as per IS 456-2000. The proportion of the aggregate for the kerb stone shall be modified as per the approval of the engineer-in-charge. The water cement ratios shall not be more than those specified as per IS. The cement of the mix shall be increased, if the quantity of water in a mix has to be increased to overcome the difficulties of placement and compaction so that the water cement ratio specified in the table is not exceeded. The maximum size of coarse aggregate shall be as large as possible within the limits specified but in no case greater than 1/4th of the minimum thickness of the member, provided that the concrete can be placed without difficulty so as to surround all reinforcement thoroughly and to fill the corners of the form. For reinforced concrete work, coarse aggregates having a nominal size of 20 mm. are generally considered satisfactory. Admixture shall be used in concrete only with approval of the Engineer-in-charge based upon the evidence that with the passage of time, neither the compressive strength of concrete is reduced nor are other requisite qualities of concrete impaired by the use of such admixtures.

Proportioning:

Proportioning shall be done by volume, except cement which shall be measured in terms of bags of 50 kg weight. The volume of one such bag can be taken as 0.0342 m³. Boxes of suitable sizes shall be used for measuring sand and aggregate. The size of the boxes (internal) shall be 30cm. x 30 cm. and 38 cm. deep. While measuring the aggregate and sand, the box shall be filled without shaking

ramming or hammering. The proportioning of sand shall be on the basis of its dry volume and in case of damp sand; allowances for bulk age shall be made.

Mixing:

For all work, concrete shall be mixed in a mechanical mixer which along with other accessories shall be kept in first class working condition and maintained throughout the construction. Measured quantity of aggregate, sand, and cement required for each batch shall be poured into the drum of the mechanical mixer while it is continuously running. After about half a minute of dry- mixing, measured quantity of water required for each batch of concrete mix shall be added gradually and mixing continued for another one and a half minute. Mixing shall be continued till materials are uniformly distributed and uniform colour of the entire mass is obtained and each individual particle of the coarse aggregate shows complete coating of mortar containing its proportionate amount of cement. In no case shall the mixing be done for less than 2 minutes after all ingredients have been put into the mixer. Mixers which have been out of use for more than 30 minutes shall be thoroughly cleaned before putting in a new batch. Unless otherwise agreed to by the Engineer-in-charge, the first batch of concrete from the mixture shall contain only 2/3rds of normal quantity of coarse aggregate. Mixing plant shall be thoroughly cleaned before changing from one type of cement to another.

Consistency:

The degree of consistency which shall depend upon the nature of the work and methods of vibration of concrete shall be determined by regular slump tests in accordance with IS: 1199-1959. The slump of 10 mm. to 25 mm. shall be adopted when vibrators are used.

Inspection:

All Moulds shall be cleaned and made free from standing water, dust, snow, or ice immediately before placing of concrete. Formwork/Metal Mould for exposed concrete surface (If indicated):

All the moulds shall be checked for exact dimensions of the precast blocks. All the edges of the precast blocks shall confirm the

profile of the final drawing & edges/ curvatures of the moulds shall be checked accordingly. Moulds shall be regularly checked for correctness of dimensions of Blocks, twists, bends due to handling, etc. Before starting every days work.

Care shall be taken to set all form work/Mould in perfect line, level (or in required camber or slope as specified) and plumb. Form work/Mould propping shall be strong, rigid, and sturdy. The form work/Mould shall be as per pattern & design shown in drawings. Form work/Mould shall be done accurately and precisely so as to achieve neat, clean and smooth concrete surface, in line, level and plumb. Clinks, twists, offsets, warps, riveting etc. in plates or forms shall not be allowed. Before placing concrete, forms shall be thoroughly cleaned off of all rust, dust, and loose materials. Colourless oil or grease of approved quality shall be applied before placing steel. Also the form work material will be of wood/plywood/steel or any sort of such material, as

approved by the Engineer-in-Charge and/or his authorized representative; so that all exposed concrete surfaces have uniform colour.

For all kind of exposed concrete work only one brand (to be approved by the Engineer-in charge) of cement shall be used.

Removal of Moulds:

Specific time shall be identified for removal of moulds, such that the concrete of the precast blocks shall gain strength to withstand the stresses generated due to self weight and handling to drying yards without any deformation to shape/ dimensions/edges.

Drying Period:

Sufficient time shall be given to the block after it is removed from the mould so that it can gain strength and dry in shade to prevent any cracks due to shrinkage. This shall be done in drying yards.

Curing Period:

Curing of block shall be done only in curing pond and curing shall be done for minimum 14 days.

Drying period after removing from pond & before delivery to site: Water should be drained off from the block before it is actually sent to the site. Time should be provided for proper draining of water which may be present in the block kept for curing in the pond.

Precautions:

Precaution shall be taken while transporting of the blocks to site.

The blocks should be loaded and unloaded with due care so as to avoid generation of stresses leading to breaking of block. Care should be taken to prevent the block from breaking during transporting.

Fixing:

The pits of the size 150mm in width and required depth shall first be excavated, true to line and level. The relevant specifications of item A- 1 shall be followed for excavation work. The pits shall be filled with a layer of 50mm. thick sand bedding. The curbs then shall be placed in position of which 50mm. shall be below road. Care should be taken to maintain proper line and level. The joints between the kerbs shall be pointed with C.M. 1:2 and cured for minimum seven days.

Sampling and testing of concrete:

Samples from fresh concrete shall be taken as per IS : 1199-1959 and cubes shall be made, cured and tested at 7 days or 28 days as per requirements in accordance with IS : 516-1959. A random sampling procedure shall be adopted to ensure that each concrete batch shall have a reasonable chance of being tested i.e. the sampling should be spread over the entire period of concreting and cover all mixing units.

NOTE:

At least 1 sample shall be taken from each shift. Ten test specimens shall be made from each sample, 5 for testing at 7 days, and the remaining 5 at 28 days. The samples of concrete shall be taken on each day of the concreting as per above frequency. The number of specimens may be suitably increased as deemed necessary by the Engineer-in-charge when procedure of tests given above reveals a poor quality of concrete and in other special cases. The average strength of the group of cubes cast for each day shall not be less than the specified cube strength of 200 Kg/cm² at 28 days. 20% of the cubes cast for each day may have value less than the specified strength provided the lowest value is not less than 85% of the specified strength. If the concrete made in accordance with the proportions given for a particular grade, does not yield the specified strength, such concrete shall

be classified as belonging to the appropriate lower grade. Concrete made in accordance with the proportions given for a particular grade shall not, however, be placed in a higher grade on the ground that the test strength are higher than the minimum specified. If rock pockets/honeycombs in the opinion of Engineer-in-charge are of such an extent or character so as to affect the strength of the structure, materially or to endanger the life of the steel reinforcement, he may declare the concrete defective and require the removal and replacement of the portion of the structure affected.

Precast Kerb Stones:

The relevant specifications of concreting as per item above shall be followed except that work shall be carried out for precast concrete kerb stones as specified in the item. All Precast members shall be cast at workshop. Sufficient curing shall be done before placement of the same the method of transporting and placing the precast members shall be as approved by the Engineer-in-charge. Members shall be so transported that no breakage or undue stresses are induced in them. If required, all members shall have a key provided on both the faces i.e top and bottom surfaces, of adequate size so as to fill the same with concrete while laying. The function of this key is to avoid the leakage through the joint between the precast member and the member on which it is laid.

Mode of Measurements and Payment :

The rate shall include cost of formwork and cost of reinforcement. The volume occupied by reinforcement shall not be deducted from R.C.C. work.

The rate shall be for a unit of Rmt.

Item No. 37

Supplying & Fixing Nimbhada ladi 37 to 50 mm thick for walk way covering the activity of excavation,ramming,laying on sand bedding as per requirement to fix the Nibhada stone in Line & Level with cement pointing in cement mortar 1:2 etc complete as directed.

The mode of measurnment shall be on Smt basis.

Item No.38

Labour work for fixing interlocking blocks / any kind of pavement on up to 50 mm th sand bedding, levelling, watering and fixing in line & level as well cleaning the site etc.comp. as directed.

Work shall be carried out as per item description including cost of all labour and materials etc. complete as directed. General standard practice of laying of paver block is applicable.

The measurements shall be on SMT basis.

Item No.39

Bitumen Cutting Labour Charges Of Cutting in bituminous pavement.Cutting to be done with heavy duty tandom cutting machine consist of dianond level.Minimum Cutting Depth Shall be 75 mm From the finished Level.Cutting Shall be perfectly in line.the width and depth of the removal of asphalt towards kerb stone shall be as per the drawing.bitumin Shall be Carefully Removed so that the cutting edge towards the road should not be disturbed.The work of Removal of asphalt will be

considered in this item as running meter of the cutting done by machine. one cutting line will be considered per length of the kerb stone. Bitumen and Other Debris shall be disposed within 10.0 km. as per the instruction of the engineer in charge. Surroundings shall be cleaned to the satisfaction of engineer in Charge.

The measurements shall be on RMT basis.

ITEM NO:- 40

Supplying, fabricating and placing in position reinforcement TMT bars Fe- 500, yield stress not less than 500 N/mm² bars confirming to IS- 1786 reinforcement for RCC structure / items as per design including transporting steel to the work site, handling wastage, decoiling, cutting, bending, cranking, fabricating to required shape, placing in position, binding with 18 gauge (1.22 mm) GI wires, welding if necessary by using approved welding rods etc. for all levels, all place, all height as per drawing etc. complete as directed by the engineer-in-charge. The quoted rate should be inclusive the cost of binding wire, chairs, pins, brackets and the same will not be measured and paid separately. (Rolling margin's and wastage shall not be paid.) Measurement shall be made on the length basis and convert into weight by using standard co-efficient.

SOR 23-24 IT CD NO :05014C

For relevant Specification of Item as per item description & instruction of Engineer-in-Charge and/or his authorized representative.

Mode of measurements shall be on Kg basis.

ITEM NO:- 41

Providing Formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc. Height of propping and centering below supporting floor to ceiling not exceeding 4 M. and removal of the same for in situ reinforced concrete and plain concrete work in. (A) Foundations Footings Bases of Columns etc. and Mass concrete. (Item Code : 09001AA, SOR 2021-22, R & B Ahmedabad City

Providing Formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc. Height of propping and centering below supporting floor to ceiling not exceeding 4 M. and removal of the same for in situ reinforced concrete and plain concrete work in. (A) Foundations Footings Bases of Columns etc. and Mass concrete.

Mode of measurements shall be on SMT basis

ITEM NO:- 42

P/A Tremix with dewatering machine and floater machine on constructed CC work for finishing the surface as per requirement. The rate including all machineries, labor, loading, unloading, transportation etc complete as per direction given by engineer in charge.

Providing & Applying Trimix with dewatering machine and floater machine on constructed RCC work incl.cost of machine and labour etc comp as directed. As directed by engineer in charge

ITEM NO:- 43

Making 15 mm. Groove in RCC work on road & filling it with polysulfied selant & finished ot good incl. all labour charges etc. comp.as directed.

Making 15 mm groove in RCC work on road and filling it with polysulfied selant and finished it good incl.all labour charges etc comp as directed. As directed by engineer in charge.

The mode of measurement shall be on Rmt of basis.

ITEM NO:- 44

Providing & Supplying JCB Machine on rental basis in case of emergency situation and break down type work & also during unavoidable condition as per instruction of engg.incharge , rate includes all nece. shifting, fuel and operating charges and stacking of useful & non-useful materials separately up to store. (No payment should be allowed for non working condition of machinery and for pipe line excavation and laying work)

Item includes Providing & Supplying JCB machine for RCC/ Asphalt cutting and heavy excavation in Case of heavy traffic Main road, rate includes all necessary shifting, fuel and operating charges and stacking of usefull & unusefull materials separatly up to store Measurement shall be paid by Hr. basis.

ITEM NO:-45

Hiring of Tractor with trolley considering 8 Hrs. As working Day hours inclu. Driver (GWSSB SOR 2021-22)

The M/s shall be on Day basis.

ITEM NO:-46

Supplying, labour for excavation of all types of soil at any depth including excavation of asphalt pavement of any thickness,demolit ion of brick work in CM of any proportion including stacking of serviceable materials and disposal of unserviceable material etc. comp. as directed.

The M/s shall be on No basis.

ITEM NO:-47

Providing and suppplying Roller for compacting the road bhuva with available building waste and Road waste material as and where directed by engineer in charge.

The measurement shall be in Shift.

ITEM NO:-48

Rent for Providing Chota Hathi (Light weight vehicle) with Driver at shown site incl. necessary oil/diesel/petrol for vehical and all other charges.Work Done as per Instruction of incharge etc. Complete as Directed.

The measurement shall be in Shift.

Contractor's Signature

**Add.City Engineer
(South Zone)**

શરતો

1. ઉપરોક્ત ટેન્ડરો જે તે વર્ગમાં રજીસ્ટ્રેશન ધરાવતા કોન્ટ્રાક્ટરશ્રીઓએ ડાઉનલોડ કરીને ભરવા .વિશિષ્ટ કિસ્સામાં જો ટેન્ડરમાં દર્શાવેલ હોય તે મુજબ અન્ય કોન્ટ્રાક્ટર મેન્યુફેક્ચર ટેન્ડર ભરી શકશે.
2. આ ટેન્ડરો ડુપ્લીકેટ કોપીઓ સાથે ભરીને ઉપરના સરનામે ડુબરું | રજીસ્ટર એ.ડી .સ્પીડ પોષ્ટ કુરીયરથી નિયત સમયમાં મોકલવાના રહેશે.
3. શરતી ટેન્ડરો રદ બાતલ ગણાશે.
4. ચોમાસાને કારણે અથવા અન્ય કોઈ અગત્યની મુલાકાત વખતે ખાતાકીય સૂચના અન્વયે જ્યારે જ્યારે કામ બંધ રાખવાનું થાય તે સમયને કામની મુદતમાં મજરે આપવામાં આવશે . પરંતુ આ અન્વયે કોઈ ભાવ વધારો આપવામાં આવશે નહીં જેની નોંધ દરેક ટેન્ડરે લેવી.
5. ટેન્ડરો કોઈપણ કારણ આપ્યા સિવાય સ્વીકારવા કે નહિં સ્વીકારવા તેની સંપૂર્ણ સત્તા મ્યુનિસિપલ કમિશનરશ્રીની રહેશે.
6. કોન્ટ્રાક્ટરશ્રીઓએ ટેન્ડર સાથે મ્યુનિસિપલ રજીસ્ટ્રેશનની ગર્વમેન્ટ રજીસ્ટ્રેશનની કોપી મુકવાની રહેશે અને કવર ઉપર ટેન્ડર નંબર તથા કોન્ટેક્ટ નંબર સ્પષ્ટ લખવો.
7. ટેન્ડર ફી પે ઓર્ડર / ડીમાન્ડ ડ્રાફ્ટથી ચૂકવવાની રહેશે .અને તેની પાછળ ' E ' ટેન્ડરનો ટેન્ડર આઇ.ડી નંબર અચુક લખવાનો રહેશે.
8. ટેન્ડર ફી તથા ઇ.એમ.ડી ની રકમના ડ્રાફ્ટ તથા પે ઓર્ડર ટેન્ડર મુજબ અચુક અલગ અલગ ભરવાના રહેશે.
9. કોન્ટ્રાક્ટરોએ ટેન્ડરમાં બેંકનું નામ, ખાતા નંબર, માઇકર નંબર અને સરનામું સ્પષ્ટ અક્ષરોમાં લખવું.
10. જે કોન્ટ્રાક્ટરશ્રીઓએ રજીસ્ટ્રેશન રીન્યુ કરેલ ન હોય તે કોન્ટ્રાક્ટરે ટેન્ડર ભરવા નહીં.
11. ટેન્ડરો સાથે મુકવામાં આવતી અર્નેસ્ટ મની ટેન્ડરની રકમના ૧ % પ્રમાણે બેંક ગેરન્ટી ડીમાન્ડ ડ્રાફ્ટ | લોકલ માઇકર ચેક થી જ સ્વીકારવામાં આવશે .અને તેની પાછળ ' E ' ટેન્ડરનો ટેન્ડર આઇ.ડી નંબર અચુક લખવાનો રહેશે.
12. ટેન્ડરમાં જો કોઈ સુધારા વધારા હોય તો તે અંગે છેલ્લે દિવસે ચેક કરી ટેન્ડર મોકલવું.

13. કોન્ટ્રાક્ટર દ્વારા ESIC અને EPFO રજીસ્ટ્રેશન અંગેના અ.મ્યુ.કોર્પો. નાણાં ખાતા સરક્યુલર નં-૩૭, તા ૦૯-૦૮-૧૮ તથા સરક્યુલર નં- ૨૭, તા ૦૭/૦૧/૨૦૨૬ મુજબ ESIC અને EPFO રજીસ્ટ્રેશન કોન્ટ્રાક્ટરશ્રીઓએ ટેન્ડર સાથે રજુ કરવાનું રહેશે.

ડીમાન્ડ ડ્રાફ્ટ / ચેક “મ્યુનિસિપલ કમિશ્નરશ્રી,અમદાવાદ” ના નામનો કઢાવવો.

કોન્ટ્રાક્ટરની સહી - સિક્કો
મોબાઈલ નંબર સાથે

એડી.સીટી એજીનીયર
(દક્ષિણ ઝોન)

FOR BANK GUARANTEE



અમદાવાદ મ્યુનિસિપલ કોર્પોરેશન
નાણાંખાતું,
બી-બ્લોક, પહેલો માળ, સરદાર પટેલ ભવન, દાણાપીઠ, અમદાવાદ.



નાણાં ખાતું
સરક્યુલર નં.: 05
તા:- ૧૨/૦૫/૨૦૨૫

બેંક ગેરંટી સરક્યુલર

સંદર્ભ :- નાણાં ખાતાના સરક્યુલર નં. ૪૮ તા.૨૮/૦૧/૨૦૧૨, ૫૮ તા.૧૬/૦૩/૨૦૧૨, ૧૪ તા.૦૪/૦૬/૨૦૧૩, ૦૩ તા.૧૩/૦૫/૨૦૧૪, ૨૧ તા.૨૮/૦૫/૨૦૧૫, ૫૬ તા.૧૮/૦૮/૨૦૧૬, ૧૮ તા.૨૩/૦૫/૨૦૧૭, ૧૮ તા.૨૮/૦૫/૨૦૧૮, ૧૨ તા.૨૨/૦૭/૨૦૧૯, ૨૬ તા. ૨૫/૧૧/૨૦૧૯, ૨૧ તા.૧૮/૦૬/૨૦૨૦, ૪૦ તા.૦૫/૧૧/૨૦૨૦, ૧૨ તા. ૧૪/૦૬/૨૦૨૧ તથા ૨૩ તા.૨૦/૦૮/૨૦૨૧ ૪૧ તા.૦૮/૦૨/૨૦૨૨, ૦૩ તા.૨૮/૦૪/૨૦૨૪, તથા ૧૦ તા. ૦૫/૦૮/૨૦૨૪

આથી તમામ ખાતાના વડા અધિકારીશ્રીઓ/એકાઉન્ટશ્રી તથા બિલકલાર્કશ્રીને જણાવવામાં આવે છે કે, સિક્યુરિટી ડીપોઝીટ તેમજ અર્નેસ્ટમની ડીપોઝીટ સ્વીકારવા બાબતે રાજ્ય સરકારશ્રી દ્વારા મંજૂર થયેલ બેંકોની યાદીમાં નાણાં વિભાગના જી.આર. નં. FD/MSM/e-file /4 /2024/ 4020/2859 D.M.O. Date: 01/05/2025 મુજબ સુધારો કરી નવી યાદી બહાર પાડવામાં આવેલ છે.

રાજ્ય સરકારશ્રીના નાણાં વિભાગના જી.આર. નં. FD/MSM/e-file /4 /2023/ 4020 / 2859 D.M.O. Date: 01/05/2025 દ્વારા સિક્યુરિટી ડીપોઝીટ તેમજ અર્નેસ્ટમની ડીપોઝીટ માટે મંજૂર થયેલ બેંકોની યાદી અંગે ડે.મ્યુનિ.કમિશનરશ્રી(નાણાં)ની મળેલ મંજૂરી ઠ.નં ૩૯ તા ૧૨/૦૫/૨૦૨૫ મુજબના સદરહુ પરિપત્ર પ્રસિધ્ધ થયા તારીખ બાદથી તા.૩૧/૦૩/૨૦૨૬ સુધી અથવા રાજ્ય સરકારશ્રી દ્વારા આ બાબતે અન્ય જી.આર પ્રસિદ્ધ કરવામાં આવે ત્યાં સુધી એનેક્સર-1 માં જણાવેલ બેંકોની બેંકગેરંટી સીક્યુરિટી ડીપોઝીટ તથા ઈ.એમ.ડી. સ્વરૂપમાં સ્વીકારવામાં આવશે.

અમદાવાદ મ્યુનિસિપલ કોર્પોરેશનના તમામ ખાતાઓ દ્વારા મેળવવામાં / સ્વીકારવામાં આવતી બેંક ગેરંટીની ઓથેન્ટીસીટીની અધિકૃત ચકાસણી કરીને / કરાવીને જરૂરિયાત મુજબના કન્ટ્રોલ પ્રોસીજર સેટઅપ કરવાના રહેશે. તેમજ સરકારશ્રીના જી.આર અન્વયે ડે. મ્યુનિસિપલ કમિશનરશ્રી (ફાયનાન્સ) ની મળેલ મંજૂરી મુજબ માત્ર અમદાવાદ શહેરની તથા અમદાવાદ સિવાયના અન્ય શહેરની હોય અને તે બેંક ગેરંટી અમદાવાદ સ્થિત સંબંધિત બેંકની શાખા દ્વારા અધિકૃત કરાયેલ હોય

તો નીચે જણાવેલ બેંકોની શાખાઓની બેંક ગેરંટી સ્વીકારવામાં આવશે. નાણાંખાતા દ્વારા ઉપરોક્ત સંદર્ભમાં જણાવેલ પરિપત્રોની અન્ય તમામ શરતો યથાવત રહેશે.

ANNEXURE – I

A. Guarantees issued by following banks will be accepted as SD/EMD on permanent basis.

❖ **All nationalized Banks**

B. Guarantees issued by following banks will be accepted as SD/EMD for the period up to March- 31, 2026. The validity cut-off date in the GR is with respect to the date of issue of Bank Guarantee irrespective of the date of termination of Bank Guarantee.

1. Commercial Banks :-

1. Axis Bank
2. A U Small Finance Bank
3. Bandhan Bank
4. Barclays Bank
5. City Union Bank
6. CSB Bank
7. DBS Bank India Limited
8. DCB Bank
9. Equitas Small Finance Bank
10. ESAF Small Finance Bank
11. Federal Bank
12. HDFC Bank
13. HSBC Bank
14. ICICI Bank
15. IDBI Bank
16. IDFC First Bank
17. Jammu and Kashmir Bank
18. Jana Small Finance Bank

- 19.Karnataka Bank
- 20.Karur Vysya Bank
- 21.Kotak Mahindra Bank
22. South Indian Bank
23. Standard Chartered Bank
- 24.Tamilnadu Mercantile Bank
- 25.Utkarsh Small Finance Bank
26. YES Bank

2. Co-operative and Rural Banks Of Gujarat :-

1. The Ahmedabad Mercantile Co-operative Bank Limited
2. Nutan nagrik Sahakari Bank Limited
3. Rajkot Nagarik Sahakari Bank Limited
4. Saraswat Co-operative Bank
5. SBPP Co-operative Bank
6. SVC Co-operative Bank
7. The Cosmos co-opretive Bank
8. The Gujarat State Co-Operative Bank
9. The Mehsana Urban Co-operative Bank Limited
10. The Surat District Co-operative Bank
11. The Surat Peoples Co-operative Bank
12. The Kalupur Commerical Co-operative Bank Limited
13. The Panchmahal District Co-operative Bank
14. The Baroda District Co-operative Bank
- 15.Baroda Gujarat Gramin Bank
- 16.Saurashtra Gramin Bank

ચીફ એકાઉન્ટન્ટ

Seal and Signature of the Bidder

Add. City Engineer (South Zone)

ENGINEERING DEPARTMENT

General terms & conditions

1. A booklet of FORM B-1 of Gujarat State Roads & Building Department / Water Resources Department with the latest correction slips may be referred for quality of construction & standard of Procedure (SOP). (only English version)
2. In the specification "as directed" / "approved" shall be taken to mean "as directed / "approved" by the Engineering in charge.
3. Wherever a reference to any Indian standard appears in the specifications, it shall be taken to mean as reference to the latest edition of the same of force on the date of agreement.
4. In "Mode of measurement" in the specifications wherever a dispute arises in the absence of specific mention for a particulars point / aspect, the same in the relevant Indian Standards shall be referred to.
5. All measurement and computations, unless otherwise specified shall be carried out nearest to the following limits :-
 - i) Length, width and depth, Height 0.01 Meter
 - ii) Areas 0.01 Sq.mts.
 - iii) Cubic contents 0.01 Cu. mts.In recording dimensions of work, the sequence of length, width and height (Depth) or thickness shall be followed.
6. Definite particulars covered in the items of work, though not mentioned or elucidate in its specifications shall be deemed to be included therein.
7. Approval of the samples of various materials given by the Engineer in charge or AMC's Consultant shall not absolve the contractor from the responsibility of replacing defective materials brought on site or materials used in the work found defective at a later date. The contractor shall have no claim to any payment or compensation whatsoever on account of any such materials being rejected by the Engineer in charge.
8. The contractor's rate for the item of work shall be for the work completed in all respect.
9. All materials including those of electrical shall be got approved by the Engineer in charge/ Architect before using them in the work.
10. Materials as and when rejected by the Engineer in charge or AMC's Consultant shall be removed from the site of work within 24 hours.
11. All work shall be carried out in a manner applying the best technique.
12. All tools, templates, machinery and equipment for correct execution of the work as well as for checking lines, levels, alignment of the works & all precautionary measures during execution shall have to be kept in sufficient numbers and in good working condition at the site of the work.
13. Special modes of the construction not adopted in general Engineering practice, if proposed to be adopted by the contractor shall be considered only if the contractor provided satisfactory evidence that such special mode of construction and completion of work to the required strength and quality. Acceptance of the same by the Engineer in charge shall not however, absolve the contractor from the responsibility of any adverse effect and concordance of adopting the same in the course of exaction or completion of the work.
14. The contractor shall be responsible for observing the rules and regulation imposed under the "Minor Mineral Act", and such other laws and rules prescribed by the Government from time to time.

15. All necessary safety measures and precautions (incl. those laid down in the various relevant Indian Standard) shall be taken to engrave the safety of men, materials and machinery on the work and also of the work itself.
16. Quantity measured in the tender is approximate. It may increase or decrease looking to the quantum of actual work for which no any claim shall be entertained by A.M.C.
17. Contractor shall have to execute extra item if required only after necessary permission from AMC.
18. The work in general shall be carried out as per standard specifications of the relevant items to be executed & as per the instruction of Engineer in charge & as per the guidance of AMC's Consultant for this project.
19. The general terms & conditions of the contract shall be applicable & shall be binding on the contractor. The contract agreement shall have to be executed between AMC & the agency to which work is awarded for execution.
20. The time limit shall be reckoned after next day from the date of issue of the written work order to the contractor after fullfillng the formality life SD & Agreement. No time extension will be granted under any circumstances.
21. In case of any ambiguity in specifications mentioned in this tender, the interpretation given by Additional City Engineer /Dy.M.C of A.M.C. will be final and binding to the Contractor.
22. The contractor shall take no advantage of any apparent error or omission in drawing or specification and the Engineer -in-charge shall make such corrections and interpretations as necessary to fulfill the intent of the plants and specifications.
23. The quantities of items in BOQ (Bill of Quantities) may vary in case of necessity arises.
24. All prevailing taxes/duties chargeable by State Govt./Central Govt. and the Municipal Corporation. will be payable by the contractor.
25. No any kind of price rise / price escalation / price variation for cement , steel or labour shall be paid.
26. Contractor is requested to see the site physically before tendering. He is also requested to quote the rates keeping in view of all the points mentioned in relevant pages of tender documents.
27. **Water Supply:** The contractor shall arrange at his own cost, a suitable supply of piped water for the construction of the works and provide a satisfactory supply of potable water for drinking, washing, sanitation and cleaning down. The contractor will be responsible for all the costs where applicable of connection, meter installation, water consumed, water required for testing purposes, disconnection and the laying, maintenances and ultimate removal of any distribution system around the site.
28. **Electricity:** Electric supply will be made available at the site by the Contractor and the contractor must make his own arrangements with the Corporation and Electricity Supply Authorities and with other contractors to connect and to take a supply from such services, paying all costs in connection therewith.
The Contractor shall be entitled to use supply Electricity as may be available on the site for purpose of the work and shall pay such charges as is fixed by the appropriate supply Authorities.
In case there is any delay in supply of power site of any interruption or fault in the power during the work. No compensation shall be paid for idle labor staff, machineries and for use of diesel operating sets etc. as the case may be.

29. Tenders shall submit all the valid/certified documents in support of their initial/eligibility criteria mentioned above along with the bid. They shall have also to submit the income tax clearance certificate and solvency certificate.
30. No advance such as secured advance machinery advance, mobilization advance or materials advance will be given.
31. The contractor shall get the electrical works executed through the authorized Government approved licensed electrical person or firm in appropriate category in accordance to contractual provisions.
32. The electrical works shall be carried out strictly in accordance with the directives issued by Engineer in charge.
33. Contractors shall not have any dispute or claim for any kind of compensations
 - (i) If the quantity stipulated in the tender items varies or the scope of work changes & thereby total amount of work increases/ decreases.
 - (ii) If the work gets delayed/ postponed for some administrative/ technical decision what so ever.
34. In case of any dispute, decision of Municipal Commissioner shall be final and binding on the contractors.
35. Tenders which do not fulfill all or any of conditions or are submitted incomplete in any respect will be rejected. Municipal Commissioner reserves the right to increase/decrease the scope of work. No any claim to that effect shall be entertained. The Municipal Commissioner also reserves the right to reject any or all the tenders without assigning any reason thereof.
36. The contractors are requested to quote their rates considering above tender conditions.
37. The contractor shall have to paid balance Security Deposit within 15 days from the date if issue of Letter of Interest (LOI). And after paying the balance S.D. the time limit will be started & Execution of Agreement to be done than after.

In case of delay in paying balance S.D. by more than 15 days penalty at the rate of 0.01% of sanction tender amount per day will be deducted from the Bill.

Eventhough in special case, If work is not started because of monsoon or any other special reason (like site is not available), after evaluation of situation the actual date of starting of work will be consider after approval of Dy.M.C. (South zone)
38. The Contractor shall not claim for increase or decrease in the quantity of the item or the scope of work.
39. The payment shall be made as per the A.M.C policy for the work done by the contractor.
40. Conditional tenderes will not be accepted.
41. The Contractor must be followed the rules and regulations for COVID-19 as per guidelines published by WHO/ Center government/State government /Ahmadabad municipal Corporation.

Signature of contractor with seal
Date

Additional City Engineer (S.Z)
Ahmedabad Municipal Corporation

QUALIFICATION INFORMATION

1. The information to be filled in by the Bidder in these statements & supporting documents submitted in physical form will be used for the purpose of pre qualification.
2. All statements given here under shall be submitted by bidders on their original letter pads only with stamp of firm of bidder and sign of the bidder.
3. Photocopy of any statements shall not be considered as valid document.
4. Information / Details to be submitted by the Bidders in the Performa mentioned under Statement. All the documents submitted in the support of these statements shall be duly attested and certified true copy.

Annexure - I

UNDERTAKING - 1

1. I/We hereby declared that I/We am/are not partner(s) blacklisted or connected with firm blacklisted by AMC, Government of Gujarat, Ministry of Road Transport & Highways/NHAI.
2. The I / We also hereby certifies that our firm M/s _____ has neither abandon any work in India nor rescinded any contract awarded to us during last five years prior to the date of this bid.
3. At present I/We am/are registered as approved contractor (s), firms in any state, CPWD / MES / Railways.
4. We, the partners/owners of this firm, hereby give an undertaking that we are jointly and severally responsible to meet all the liabilities ever and above the business of this firm and make good the above financial loss sustained by the Amdavad Municipal Corporation as a result of our abandoning the works entrusted to us.
5. I /We hereby certify that all the statements made in the required attachments are true and correct.
6. The I / We undersigned hereby authorise(s) and request(s) any bank, person, firm or corporation to furnish pertinent information deemed necessary and requested by the Department to verify this statement or regarding my (our) competence and general reputation.
7. I /We hereby declare that I / We understand and agree that further qualifying information may be requested, and I / We also agree to furnish any such information at the request of the AMC within the prescribed time.
8. I / We further declare that my / our near relatives are not working in AMC as an Addl. C.E., Dy. C.E., A.C.E., A.E., and T.S. as on today.

(Signed by an Authorized Representative of the Firm)

Name of the Representative

Name of Firm

DATE

Annexure - II

UNDERTAKING - 2

1. I / We hereby declare that I / we have visited the site and fully acquainted myself / ourselves with the local situations regarding materials, labour and other factors pertaining to the work before submitting this tender. I/We certify that I/We have inspected the location of the proposed work before quoting my/our rates.
2. I/We have also inspected the quarries and borrow areas and satisfied myself/ourselves regarding the quality, quantity, availability, and transport facilities for earth, stone, bricks, and, cement etc. through the network of available roads and path ways required for the work.
3. I / We hereby declare that I / we have carefully studied all the terms and conditions of contract, specifications mentioned in the tender documents and I / we do agree for compliance with the same strictly.
4. I/We shall execute the contract agreement with the AMC after award of work and before start of work.

(Signed by an Authorized Representative of the Firm)

Name of the Representative

Name of Firm

DATE

CERTIFICATE

APPLICABILITY OF PROVIDENT FUND AND MISCELLANEOUS PROVISIONS ACT 1952

Successful bidder i.e. the agency whose tender is accepted by the AMC shall have to comply the necessary formalities under the employees provided fund and Miscellaneous Provisions Act, 1952 as Contributory Provident Fund Scheme is applicable to laborers engaged in construction activity and shall have to submit proofs regarding deduction of provident fund and other dues and depositing the same with government department under the act and the scheme regularly on monthly basis failing which no running / final bill payment will be made by the AMC to the contractor in any circumstances.

A certificate to the above effect has to be given by the contractor as under.

Declaration of Depositing Provident Fund contribution

This to certify that we have deducted the employees' P.F. and deposited the same along with employer's contribution towards provident fund on labour charges / wages paid by us to the laborers engaged for the work of _____

with Provident Fund Authority under our Provident Fund Code No. _____

We produce herewith the copies of the challans for the provident fund deduction and contribution deposited as mentioned above.

(Signed by an Authorized Representative of the Firm)

Name of the Representative

Name of Firm

DATE

To be notarized by Notary

FORM OF BANK GUARANTEE

Where as M/s.
(hereinafter called the Tenderer) is desirous and preferred to tender for works in accordance with the terms and conditions of tender for the work of
.....

1 .Therefore. We hereby affirm that -we are guarantors on behalf of the Tenderer up to total rupees.....(in words.....) Rs.
(in figures) and we undertake to pay to Municipal Commissioner, Ahmedabad Municipal Corporation, A'bad specified up to his first written demand, without demur without delay and without the necessity of a previous of judicial or administrative procedures and without the necessity to prove to the Bank the defects or short comings or debits of the contractor any sum within the limit of Rs.....

2. We further agree that the Guarantee herein contemned shall remain in full force and effect during the period that would be taken for the acceptance of tender.
However unless a demand of claim under this guarantee is made on its in writing on or before the (Date to be specified will not be less than 180 days from the stipulated date of receiving the tender) we shall be discharge form all liabilities under the guarantee thereafter.

3. We undertake not to revoke the guarantee during it currency except with the previous consent of the Municipal Commissioner, Ahmedabad Municipal Corporation, A'bad in writing.

4. We lastly undertake not to revoke the guarantee for any charge in constitution of the Tenderer or of the Bank.

5. The contractors shall have to furnish income tax clearance certificate before his tender is accepted and intimate assessment number and ward under which he is assessed.

6. Copies of certificate as regards previous experience, if any, must accompany the tender.

Signature of Contractor
Date

Add.C.E (S.Z)

Dy. Municipal Commissioner (S.Z)
Ahmedabad Municipal Corporation
Ahmedabad.

TENDER DECLARATION FORM

To,
The Deputy Municipal Commissioner,
South Zone, Ahmedabad

Name of Works: - Fixing of paver block & RCC Road construction and other necessary works as per requirement at different society/flat & other places from budget grant by Municipal Councilor/Honorable MLA and from other special allocated budgets in Maninagar ward South Zone (ARC)

Dear Sir,

I/We the undersigned have carefully gone through and clearly understood the Tender documents for the above work. I/We have satisfied myself/ourselves as to the location of site, examined drawings. I/We have visited site & fully acquainted with local situations regarding materials, labours & others factors pertaining to work before submitting tenders.

I/We do hereby offer to execute and complete the whole of the work within the time specified all in accordance with the specification, designs, drawing and instruction in writing referred to in the said document and with such materials as are provided for, at the respective rates which I/we have quoted in the schedule-B or at such other rates as maybe fixed under the provisions of these conditions. In the event of this tender being accepted I/We agree to enter into an agreement and when required and execute the contract, according to your form of agreement as or in default where of I/we bind myself/ ourselves to forfeit the "Earnest Money Deposit."

I/We understand that if I/WE shall not enter in agreement within ten days or decided by AMC from the date of receipt of letter of acceptance, you will forfeit the earnest money paid by me/us and take necessary action as deemed fit.

I/We have enclosed a DEMAND DRAFT or PAY ORDER as an "Earnest Money Deposit", for the sum as mentioned in tender notice, the full value of which is to be absolutely forfeited to the Employer If I/We fail to commence the work specified. Otherwise the said sum shall be retained, by the Employer as on account of such. Security) 'Deposit' as provided for in the aforesaid documents.

I/We agree not to employ sub-contractors other then those that may be approved in accordance with Conditions in the aforesaid documents.

I/We understand that you are not bound to accept the lowest or any tender which you may receive.

I/We am/are bound to execute the job if the work order is issued within 120 days from the date of opening of the tender.

I/We agree to pay the Government income-Tax, Sales-Tax (Central and State) ,Sales Tax on work, octroi duties and other prevailing Government taxes/charges on such items on which the same are leviable and therates quoted by me/us are inclusive of the same.

Date:

Yours faithfully

Signature of the contractor

Address

અમદાવાદ મ્યુનિસિપલ કોર્પોરેશન
દક્ષિણઝોન - ઈજનેર ખાતુ
ટેન્ડરની શરતો

૧. સમયમર્યાદા અંગે એલ.ઓ.આઈ. આપ્યા બાદ ૧૦ દિવસ સુધીમાં જરૂરી સીક્યોરીટી ડિપોઝીટ ભરી ત્યાર બાદથી ગણવામાં આવશે. તેમજ ત્યાર બાદ વર્ક ઓર્ડર ઇશ્યુ થયેથી સમાય મર્યાદા શરૂ થયેલી ગણાશે. તથા તે સાથે કરારપત્ર કરવાનો રહેશે. અને તે મુજબ કામ શરૂ કરવાની તારીખ ગણવામાં આવશે. એલ.ઓ.આઈ. આપ્યા બાદ સીક્યોરીટી ડિપોઝીટ ભરવામાં દિન -૧૫ કરતાં વધુ વિલંબ નાં કિસ્સા માં તેમજ વર્ક ઓર્ડર આપેથી કામ શરૂ કરવામાં વિલંબ થયેથી પ્રતિદિન મંજૂર ટેન્ડર રકમનાં ૦.૦૧ % લેખે પેનલ્ટી બીલ માંથી કાપવામાં આવશે. તેમ છતાં વિશિષ્ટ કિસ્સા માં ચોમાસા નાં કારણે અથવા અનિવાર્ય કારણોસર કામ શરૂ થઈ શકે તેમ ન હોય તે કિસ્સા માં યોગ્યતા ચકાસી ડે.મ્યુ.કમિશ્નર (દ.ઝોન) ની મંજૂરી મેળવી કામ શરૂ કરવાની તારીખ ગણવામાં આવશે.
૨. ટેન્ડર વેલીડીટી ૧૨૦ દિવસ સુધીની રહેશે.
૩. ટેન્ડર ભરતી વખતે અર્નેસ્ટમની ભરવાની રહેશે.
૪. જી.એસ.ટી. પ્રવર્તમાન દર પ્રમાણે અલગથી ચુકવવામાં આવશે. ટેક્ષ કે અન્ય કોઈ પણ સરકારી કરવેરા ભરવાની જવાબદારી કોન્ટ્રાક્ટરની રહેશે.
૫. રાજ્ય / કેન્દ્ર સરકારશ્રીના વખતોવખતના કાયદા મુજબ જે કોઈ રકમની કપાત કરવાની થશે તે મુજબ કોન્ટ્રાક્ટના બીલમાંથી કપાત કરવામાં આવશે.
૬. લેબર વેલ્ફેર ફંડ માટે હાલમાં રાજ્ય સરકારશ્રીએ કરેલ હુકમ મુજબ ૧% (એક ટકા) રકમ બીલમાંથી કાપી લેવામાં આવશે.
૭. મટીરીયલ ટેસ્ટીંગનો ટેસ્ટીંગનો ખરેખર થયેલ ખર્ચ કોન્ટ્રાક્ટરશ્રી પાસે થી વસુલ કરવામાં આવશે.
૮. કામ આપતી વખતે જે તે કોન્ટ્રાક્ટરનું રજીસ્ટ્રેશન ધ્યાનમાં રાખીને તેની મર્યાદામાં કામ આપવામાં આવશે.
૯. આ ટેન્ડર જે તે વર્ગના માન્ય યાદી ના કોન્ટ્રાક્ટરો ભરી શકશે. ગર્વમેન્ટના માન્ય કોન્ટ્રાક્ટરે અ.મ્યુ.કોર્પી.માં માન્ય કોન્ટ્રાક્ટરો ની યાદીમાં રજીસ્ટ્રેશન કરાવવાનું રહેશે.
૧૦. આ ઉપરાંત અ.મ્યુ.કોર્પી. ના જનરલ કોન્ટ્રેક્ટ કન્ડીશન અને ટેન્ડરની શરતો બંધનકર્તા રહેશે. જે મ્યુનિ.કોર્પોરેશન વેબ સાઈટ www.ahmedabadcity.gov.in ઉપર મુકેલ છે.
૧૧. કોન્ટ્રાક્ટર ને પેમેન્ટ - રનીંગબીલ મ્યુનિ.કોર્પી.ના જે તે ચાલુ સમયના સરકયુલર મુજબ કરવામાં આવશે.
૧૨. શરતી ટેન્ડર સ્વીકારવામાં આવશે નહિ.
૧૩. ટેન્ડર સ્વીકારવું, રદ કરવું, કોને આપવું અને કયા ભાવથી આપવું તે અંગે ડે.મ્યુનિ.કમિશનરશ્રીનો નિર્ણય આખરી રહેશે.
૧૪. દરેક આઈટમનાં સ્પેશીફિકેશન કોર્પોરેશનનાં મંજૂર થયેલ સ્પેશીફિકેશન મુજબ તથા ઈન્ડીયન સ્ટાન્ડર્ડ કોડ ઓફ પ્રેક્ટીસ નાં માન્ય ધારા ધોરણો મુજબ રહેશે અને ડે.સીટી એન્જનીયરશ્રીનો

નિર્ણય આખરી રહેશે. વોટરીંગ કરવામાં નહિ આવે કે દરરોજ વધારાનો ડેબરીઝ ઉપાડવામાં નહિ આવે તો કોન્ટ્રાક્ટરનાં ખર્ચે અને જોખમે વગર નોટીસે વોટરીંગ કરાવવામાં તથા ડેબરીઝ ઉપાડવામાં આવશે અને બીલમાંથી રકમ કાપી લેવામાં આવશે.

૧૫. એકી વખતે એક કરતાં વધુ જગ્યાઓએ કામશરૂ કરવાનો વર્કઓર્ડર મળે તો કામ એક સાથે જ એક જ બતાવેલ જગ્યાએ કરવું પડશે. એક કામ પુરુ થાય પછી બીજુ કામ શરૂ કરીએ તેવું ચાલશે નહિ.
૧૬. ચાલુ કામે કોઈપણ સર્વિસ લાઈનને નુકશાન ન થાય તે રીતે કામ કરવું પડશે, જો કોઈ સર્વિસ લાઈન ને નુકશાન થશે તો તેની સંપૂર્ણ જવાબદારી (જાનમાલની) કોન્ટ્રાક્ટરની પોતાની રહેશે. સાઈટ પર કામ દરમ્યાન મજૂર કે જનતા ના કોઈ માણસના જાનમાલને નુકશાન થાય તેની જવાબદારી કોન્ટ્રાક્ટરની રહેશે. પોલીસ ફરીયાદ થાય તો તેની જવાબદારી પણ કોન્ટ્રાક્ટરની રહેશે. ભેખડ ધસી ન પડે તેની જવાબદારી પણ પોલીસ ફરીયાદમાં કોન્ટ્રાક્ટરની રહેશે. ભેખડ ધસી ન પડે તે માટે સલામતીના પગલાં (જેવા કે દોરડું બાંધી મજૂર ખાડામાં ઉતારવા, સોરીંગ અને સ્ટ્રેટીંગ કરવા વિગેરે) લીધા વગર મજૂરને ખાડામાં ઉતારશે તો કોન્ટ્રાક્ટર જ પોલીસ ફરીયાદમાં જવાબદાર રહેશે અને મ્યુનિ.કોર્પોરેશનનો કોઈપણ સ્ટાફ આના માટે જવાબદાર રહેશે નહિ. આટલું સમજીને જ ટેન્ડર ભરવું. મજૂરોનો વિમો પણ ઉતારાવવો.
૧૭. લેબર એક્ટ પ્રમાણે તેમજ મ્યુ. કમિશ્નરશ્રીનાં પરિપત્ર નંબર ૮૧ તા.૨૬.૦૨.૨૦૧૫ મુજબ તમામ લેબર / મજૂરોનું ગુજરાત બિલ્ડીંગ એન્ડ અધર કન્સ્ટ્રક્શન વર્કસમાં ફરજિયાત રજીસ્ટ્રેશન કરાવવા અંગે અમલ કરવાનો રહેશે તથા કેટલા લેબર લાવશો તે પણ જણાવવાનું રહેશે. લેબર એક્ટ પ્રમાણે કાર્યવાહી નહિ થઈ હોય તો તે માટે કોન્ટ્રાક્ટર સંપૂર્ણપણે જવાબદાર રહેશે. અને તેને પેમેન્ટ આપવામાં આવશે નહિ તેમજ બાળ મજૂરોને કામ ઉપર રાખી શકાશે નહિ. તેમજ વખતો વખત મ્યુ. કમિશ્નરશ્રી દ્વારા કરવામાં આવેલ સરક્યુલરોની શરતો કોન્ટ્રાક્ટરને બંધન કર્તા રહેશે.
૧૮. કોઈપણ કાયદાકીય લીટીગેશન અમદાવાદ શહેરની કોર્ટમાં રહેશે.
૧૯. કોઈ કારણસર જો કોન્ટ્રાક્ટરને કામ ન આપી શકાય તો તે અંગે કોન્ટ્રાક્ટર કોઈપણ પ્રકારનો નુકશાની- વળતરનો હક્ક દાવો કરી શકશે નહિ કે કાયદાકીય કાર્યવાહી આ અંગે થઈ શકશે નહિ. ટેન્ડર મંજૂર થયાનો અર્થ કામ આપી જ દેવાનું છે તેવો થઈ શકશે નહિ.
૨૦. ઓફર અથવા ટેન્ડરમાં દર્શાવેલ આઈટમનો જથ્થો સંભવિત જથ્થો છે જેમા ચાલુ કામ દરમ્યાન ફેરફાર થવાની શક્યતા રહેલી છે.
૨૧. સ્થળ પરિસ્થિતિ / જરૂરીયાત મુજબ કામ કરાવતા ટેન્ડરમાં જણાવેલ ક્વોન્ટીટીમાં વધ ઘટ થશે તો તે અંગે કોન્ટ્રાક્ટર દ્વારા કોઈપણ પ્રકારની વધારાની નાણાંકીય માંગણી કરી શકશે નહિ. અને કામ ઓછુ થાય તો કોન્ટ્રાક્ટરની વળતરની માંગણી સ્વીકારવામાં આવશે નહિ.
૨૨. સાઈટ પર લાવવામાં આવેલ માલસામાન રીજેક્ટ કરવામાં આવે તો તુરંત દિન-૧માં પરત લઈ જવાનો રહેશે. અન્યથા કોર્પોરેશન દ્વારા તે રીજેક્ટ માલનો નિકાલ કરી દેવામાં આવશે અને તેની નુકશાનીની જવાબદારી કોન્ટ્રાક્ટરની રહેશે.
૨૩. જે કોન્ટ્રાક્ટર પાસે મજૂરોનો વિમો, અગાઉથી ઉતરાવ્યો હોય તેમને પ્રાધાન્ય આપી કામ આપી શકશે.

૨૪. મજૂરો કે રાહદારીઓને કોઈપણ પ્રકારનો અકસ્માત થાય તો તેની પોલીસ કાર્યવાહીની કે લેબર એક્ટ મુજબની કાર્યવાહીની જવાબદારી અમ.મ્યુનિ.કોર્પો.ના કર્મચારીઓની કોઈપણ રીતે રહેશે નહિ.માત્ર કોન્ટ્રાક્ટર જ આ માટે જવાબદાર રહેશે. મજૂરોને ગમબૂટ, હેલ્મેટ હાથનાં મોજા વિગેરે કોન્ટ્રાક્ટરે ફરજિયાત આપવાનાં રહેશે. મજૂરો તથા સુપરવાઈઝ કે મુકાદમનો વિમો પણ ઉતારવાનો ફરજિયાત રહેશે. લેબર એક્ટ મુજબ નોંધણી કરાવી તેના નિયમોનું પાલન કરવા કોન્ટ્રાક્ટર બંધાયેલ રહેશે. બાળ મજૂરો રાખી શકાશે નહિ.
૨૫. મજૂરો કે રાહદારીઓને કોઈપણ પ્રકારનો અકસ્માત થાય તો તેની પોલીસ કાર્યવાહીની કે લેબર એક્ટ મુજબની કાર્યવાહીની જવાબદારી અમ.મ્યુનિ.કોર્પો.ના કર્મચારીઓની કોઈપણ રીતે રહેશે નહિ.માત્ર કોન્ટ્રાક્ટર જ આ માટે જવાબદાર રહેશે. મજૂરોને ગમબૂટ, હેલ્મેટ હાથનાં મોજા વિગેરે કોન્ટ્રાક્ટરે ફરજિયાત આપવાનાં રહેશે. મજૂરો તથા સુપરવાઈઝ કે મુકાદમનો વિમો પણ ઉતારવાનો ફરજિયાત રહેશે. લેબર એક્ટ મુજબ નોંધણી કરાવી તેના નિયમોનું પાલન કરવા કોન્ટ્રાક્ટર બંધાયેલ રહેશે. બાળ મજૂરો રાખી શકાશે નહિ.
૨૬. બિલ્ડીંગ કામની આઈટમો માટે - જનરલ ટેકનીકલ સ્પેશીફિકેશન ઓફ બિલ્ડીંગ વર્ક્સની બુક મુજબ અનુસરવાનાં રહેશે. સદર પુસ્તીકા ગુજરાત બુક સ્ટોર્સ ૨૦-બી, ડીસ્ટ્રીક્ટ શોપીંગ, સેક્ટર-૨૧, ગાંધીનગરથી મળી રહેશે. જે વેબ સાઈટ www.ahmedabadcity.gov.in ઉપર મુકેલ છે.
૨૭. મટીરીયલ કે બીજા ટેસ્ટીંગ રીપોર્ટ કોન્ટ્રાક્ટરે પોતાના ખર્ચે કોર્પોરેશન જણાવે તે જગ્યાએ કરાવવાના રહેશે. આ અંગેનો સંપૂર્ણ ખર્ચ તથા મ્યુનિ.સ્ટાફને લેબોરેટરી સુધી તથા મેન્યુફેક્ચરીંગ જગ્યા સુધી લાવવા -લઈ જવાનો ખર્ચ પણ કોન્ટ્રાક્ટરે ભોગવવાનો રહેશે.
૨૮. માલ જે તે સ્ટોર્સ ઉપર અથવા સાઈટ ઉપર લોકોને નડતર ન થાય તે રીતે સૂચના મુજબ ઉતારવાનો તેમજ ગોઠવવાનો રહેશે.
૨૯. જો મ્યુ.એન્જનીયરીંગ સ્ટાફ જણાવે તો કોન્ટ્રાક્ટરે ચાલુ કામે સાઈટ ઉપર ડીઝીટલ કેમેરાથી કામ ચાલુ થયા પહેલા, ચાલુ કામે તથા કામ પૂર્ણ થયાનાં ફોટોગ્રાફ્સ મ્યુનિ.ઓફિસમાં આપવાનાં રહેશે તે સિવાય કામનું પેમેન્ટ કરવામાં આવશે નહિ જો સ્ટાફ સૂચના આપે તો કેમેરામાંથી કોમ્પ્યુટરમાં ફોટા ટ્રાન્સફર કરી આપવાના રહેશે. આ અંગે કોઈ પણ વધારાનો ખર્ચ આપવામાં આવશે નહિ.
૩૦. કોઈપણ કારણસર ટેન્ડર રદ કરવામાં આવે તો કોન્ટ્રાક્ટર તે અંગે કોઈપણ પ્રકારનો હક્ક દાવો કે વળતરની માંગણી કરી શકશે નહિ. આ શરત સ્વીકાર્ય હોય તેમણે જ ટેન્ડર ભરવું.
૩૧. મટીરીયલ્સ જેવા કે રેતી, ઈંટો, સીમેન્ટ, પાઈપ, વિગેરે સ્ટાન્ડર્ડ મટીરીયલ્સ સ્પેશીફિકેશન પ્રમાણેના લાવવાના રહેશે. જ્યાં કોઈ ચોખવટ ન થઈ હોય ત્યાં આઈ.એસ.કોડ પ્રમાણે મટીરીયલ્સ લાવવાનું તથા ટેસ્ટીંગ કરાવવાનું રહેશે. તેમજ કોન્ટ્રાક્ટરે સેમ્પલ એપ્રુવ કરાવ્યા બાદ કામ શરૂ કરાવવાનું રહેશે.
૩૨. આ ટેન્ડરમાં જો કોઈ આઈટમ રહી ગઈ હોય તો તે ચાલુ એસ.ઓ.આર.માંથી લેવામાં આવશે અને જો એસ.ઓ.આર.માં આઈટમ ન હોય તો માર્કેટ રેઈટથી રેઈટ એનાલીસીસ કરી જે ભાવ ખાતા તરફથી આપે તે કોન્ટ્રાક્ટરે લેવાનો રહેશે. આ સમજીને જ ટેન્ડર ભરવાનું રહેશે. વધારા ની આઈટમ માં કોન્ટ્રાક્ટરની માંગણી મુજબ ભાવ મળશે નહિ.

૩૩. ચાલુ કામ દરમ્યાન પ્રોટેક્શનની સંપૂર્ણ જવાબદારી કોન્ટ્રાક્ટરની રહેશે જેમાં પીપડા, દોરડા, ભયસૂચક બોર્ડ, લાલ ટેન , બેરીકેટીંગ ટેપ, પ્લાસ્ટિક પટ્ટી, વિ. કોન્ટ્રાક્ટરે લાવવાનું અને સાચવવાનું રહેશે. અને કોઈપણ અકસ્માત થશે તો તેની સંપૂર્ણ જવાબદારી કોન્ટ્રાક્ટરની રહેશે.

૩૪. સ્ટાફ સૂચના આપે તો સાઈટ ઉપર ડેઈલી પ્રોગ્રેસ રજીસ્ટર કોન્ટ્રાક્ટરે રાખવાનું રહેશે. દરરોજ આસી.સીટી એન્જનીયરશ્રીની તેમાં સહી લેવાની રહેશે, તેમાં દરરોજ કામ કરતા મજૂરોની સંખ્યા, કરેલ કામગીરી તથા અધિકારીઓએ કામ સુધારવા કે પ્રોગ્રેસ વધારવા નોંધ કરેલ હોય તો તેનું કોમ્પ્લાયન્સ આપવાનું રહેશે આવી નોંધનાં જવાબ ન થયે કે તે પ્રમાણે સ્થળ ઉપર અમલ ન થયે કોન્ટ્રાક્ટરને પેનલ્ટી કરવાની સત્તા એડી.સીટી એન્જનીયરશ્રીને રહેશે તે અંગે કોન્ટ્રાક્ટર કોઈ વાંધો લઈ શકશે નહિ.

૩૫. નિયત સમયમર્યાદામાં કામ પુરું ન થયેથી ટેન્ડર કલોઝ મુજબ બાકી કામનાં ૧૦.૦૦% લેખે પેનલ્ટી મ્યુનિ.કોર્પોરેશનને ચુકવવાની રહેશે.

૩૬. ટેન્ડર ની આ શરતો બી - ૧ ફોર્મમાં જણાવેલ શરતોને ઓવરરૂલ કરશે.

ઉપરોક્ત તમામ શરતો તથા નિયમો મેં કાળજીપૂર્વક વાંચેલ છે અને મને કબૂલ મંજૂર છે.

કોન્ટ્રાક્ટરની સહી - સિક્કો
મોબાઈલ નંબર સાથે

એડી.સીટી એન્જનીયર
(દક્ષિણઝોન)

એકરારનું ફોર્મ

- (૧) હું/અમે આથી એકરાર કરું છું/કરીએ છીએ કે આ ટેન્ડર રજુ કરતાં પહેલાં મેં/અમે સ્થળની મુલાકાત લીધી છે અને કામને લગતા માલસામાન, મજૂરી અને બીજી બાબતોને લગતી સ્થાનિક પરિસ્થિતિની જાત-માહિતી મેળવી છે.
- (૨) હું/અમે આથી એકરાર કરું છું/કરીએ છીએ કે આ કોન્ટ્રાક્ટરોની શરતો વિગતો અને ટેન્ડરને લગતા દસ્તાવેજો કાળજીપૂર્વક અભ્યાસ કર્યો છે અને તે મુજબ તેનો અમલ કરવા સંમત છું/છીએ.

કોન્ટ્રાક્ટરની સહી - સિક્કો
મોબાઈલ નંબર સાથે

એડી.સીટી એન્જનીયર
(દક્ષિણ ઝોન)

“ અમદાવાદ મ્યુનિસિપલ કોર્પોરેશન”

દક્ષિણ ઝોન- ઈજનેર ખાતુ

પાણી, ડ્રેનેજ, પેવીંગ, રીઈસ્ટેટમેન્ટના કોન્ટ્રાક્ટરે ખાસ વાંચવા અને ધ્યાનમાં રાખવાની બાબત નીચે મુજબ છે.

“ આ કામના દરેક આઈટમના જથ્થામાં શૂન્ય થી બસસો ટકાની વધઘટ થવા સંભવ છે. કોઈ આઈટમનો ભાવ વધારો આપવામાં આવશે નહિ. અમુક જગ્યાએ જુના પથ્થર જ ફરીવાર રીઈસ્ટેટ કરવાના થશે. તેવી દરેક આઈટમમાં વધઘટ થાય કે આઈટમ એકઝીક્યુટ ન થાય તેવું પણ બનશે. આના માટે કોઈપણ પ્રકારની વળતરની માંગણી કરવાની રહેશે નહિ કે ભાવ વધારો, પણ આપવાનો થશે નહિ. તેના માટે પુરતાં સાધનો અને મજૂરો હોય, એક સાથે અનેક જગ્યાઓએ કામ કરવાની ક્ષમતા હોય તેમણે જ વિચારીને ટેન્ડર ભરવું. મજૂરો નથી કે ગામડે જતા રહ્યા છે કે હોળી, નવરાત્રી, દિવાળી, લગ્ન સીઝન કે અન્ય તહેવારોમાં કે પ્રસંગોમાં મજૂરો આવતા નથી તેવા કે બીજા કોઈપણ બહાના હેઠળ કામ બંધ રાખી શકાશે નહિ. અન્યથા રોજના રૂા. ૨૫૦.૦૦ની વધારાની પેનલ્ટી કામ બંધ રહે કે સૂચના કરતા ઓછા મજૂરો આવે તેને લીધે કરવામાં આવશે.”

કોન્ટ્રાક્ટરની સહી
સિક્કા અને મોબાઈલ નંબર

એડી.સીટી.એન્જી.
(દક્ષિણ ઝોન)

AHMEDABAD MUNICIPAL CORPORATION
ENGGNIERING DEPARTMENT
GENERAL SPECIFICATION

Time limit for the work shall be as per tender notice after the order to start the works. Progress of work should be in proportion to time limit. The details of reinforcement of R.C.C. work shall be as per design and instructions of Add. City Engineer and his order will be considered final.

The contractor shall have to maintain account of steel, cement and other materials that may be brought by him on site. This account shall be regularly maintained and kept open for inspection by Municipal Staff. Watering of all the items shall be as per instructions otherwise no payment shall be made to contractors. Mixing of concrete shall be done by concrete mixer machine. Arrangements of binding vibrator for R.C.C. works if required shall have to be made by the contractor.

The contractor shall be remain responsible for Workmen's compensation if any accident. The contractor shall arrange for barricading at night and arrangement of Pagi at night to direct the traffic. He shall be responsible for any damage to public. If any incident happen, during the execution of work. In case of dispute for unseen or overlooked items the decision of the Dy. City Engineer shall be final. The contractor shall have to give site clean of all rubbish during the work and at the time of completion of work and hand over the site with final finishing of the work as directed. All the rejected materials shall be removed from site within 24 hours by contractor at this risk and cost. Debris shall have to cart daily from site.

For mixing mortar either for masonry or for plaster or for any other purpose contractor shall have to prepare through of bigger size and mix the mortar in the required proportion. In on case he shall be allowed to mix the mortar either on floor or any finished surfaces. The contractor shall have to make his own arrangement for water required for the work.

If any extra item crops up during the progress of work the same shall be carried out by the contractor and he shall be paid at the rate fixed by Add.C.E. as per the rate analysis based on latest SOR or if item is not available in SOR than based on current market rates. In case of extra item decision of Add. City Engg. shall remain final regarding rate.

If in the interest of the Corporation it is necessary to change either any site or the design of the propose work the contractor shall carry out the same at his quoted rates without charges any extra and the contractor will have to carry out the works and he will

be paid at the rate quoted by him. No claim for extra rate for subsequent changes in site and design is entertained.

The cubical contents of the cement bag shall be taken as 1-20 cft. Per bag and the contractors shall have to prepare the measures boxes according to this measure.

Octroi exemption passes shall not be given for any materials required for the work. Contractor will be fully responsible for compliance of the various provisions under contract Act. 1970 and the Rules framed there under.

The tender for the work shall remain open for a period (120) days from the date of opening of the tenders for this work and that the tenderer shall not be allowed to withdraw or modify the offer on his own during the period. If any tenderer withdraw or makes any modifications or addition in the terms and conditions of his tender not acceptable to the Municipal Corporation the Municipal Corporation shall without prejudice to any right or remedy be at liberty to forfeit in full the said earnest money and black list the contractor.

If work is not started within specified time limit i.e. within ten days from the date of order to start the work the penalty of the 0.01% tender Amount per day of delay of start shall be recovered separately from the immediate bills payable to the contractor. Contractor has to make his own arrangement for procurement of steel and cement.

Contractors should note the following conditions carefully:-

- i) Conditional tender shall not be accepted.
- ii) All tenders are to be submitted in duplicate without which the tenders are liable to be rejected.
- iii) In case of tender downloaded from website, tender fee & EMD should be submitted in form of demand draft.
- iv) Condition of Form - B1 only Standard Specification of material & code of practice will be applicable. Form B1 can be is available in website. Specification shall be as per ' R & B Dept. - Govt. of Gujarat booklets of Building Works & and Road Works Specifications published by Gujarat Book Depot, Sector-21. Gandhinagar. Other technical condition will be applicable as per tender condition only.

Contractor's signature & Stamp
Mobile No.:-

ADD CITY ENGINEER
(South Zone)