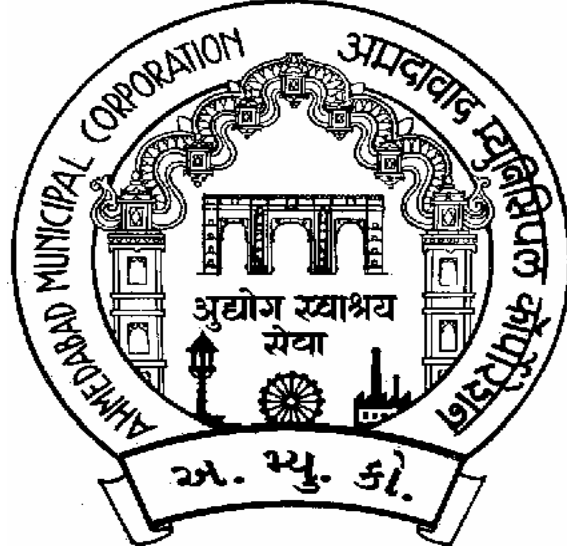


AHMEDABAD MUNICIPAL CORPORATION

(SOUTH ZONE)



TENDER NO - 6

for

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c l tJt.

Municipal Commissioner

Ahmedabad Municipal Corporation.

Sardar Patel Bhuvan, Dana pith,

AHMEDABAD – 380 001

AMC
"Sardar Patel Bhavan", Danapith, Ahmedabad - 380 001.
Tele. Phone: 25391811 / 25391830, Fax: 91-079 -25350926

TENDER NOTICE

Municipal Commissioner invites percentage rate sealed tenders from the reputed, experienced & registered contractors of approved class for the work mentioned below.

1.	Name of work	Constructing Central-Verge from Kankaria Police-chowky to Football Ground.
2.	Registration and minimum Eligibility Criteria	Contractor registered with Government of Gujarat in.E-1 class and above or contractor registered in similar class with other state Government, Semi Government Bodies or with Central P.W.D. who are capable of carrying out building /sanitary /drainge /disilting /building mtce work or central verge/road work.
3.	Time Limit	6 Months
4.	Estimated Cost put to tender	Rs.475217.00
5.	Earnest Money Deposit	Rs 4752.00 (Demand Draft or pay order or MICR.cheque in favour of Municipal Commissioner, Ahmedabad / Bank Guarantee) To be submitted as prescribed in 7.0 below. Demand Draft or Bank Guarantee shall be from Nationalized Bank and valid for 120 days.
6.	Tender fee (Non refundable)	Rs.600 /- to be submitted by D.D./Pay order payable at Ahmedabad in favour of Municipal Commissioner, Ahmedabad
7.	Tender documents to be downloaded from AMC website www.egovamc.com	From 31-07-10 to 17-08-10
8.	Last date of receiving tenders.	Dt 17-08-10 up to 12.00 Hrs. Tender recived aftar this date and time will not be entertained under any circumstanes.
9.	Date of Opening of Tender	Dt 17-08-10 at 14.00 Hrs.
10.	Mode of sending the Tender Documents in duplicate. i.e. two sets	By RPAD or Speed Post or courier or by hand delivery only addressed to Asstt. Manager (South Zone) 2nd floor, Ahmedabad Municipal Corporation, Rambaug, Maninagar, Ahmedabad-380008

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

Addl. C. E. (S.Z)

Dy.M.C(S.Z)

Information to Tenderers

NAME OF WORK :- Constructing Central-Verge from Kankaria Police-chowky to Football Ground.

1. Estimated cost put up to tender : **Rs. 475217.00**
2. Earnest Money Deposit : Rs 4752.00 (Demand Draft or pay order or MICR.cheque in favour of Municipal Commissioner, Ahmedabad / Bank Guarantee) To be submitted as prescribed in 7.0 below. Demand Draft or Bank Guarantee shall be from Nationalized Bank and valid for 120 days.
- 3 (A) Security Deposit : 5 % of Tender amount in form of Bank Guarantee.*This shall be produced after the work is awarded.*
4. Mode of sending the tenders in **duplicate.**
In sealed cover by R P A D/ :
Speed post / courier or hand delivery only. In sealed envelope super scribed the name of work.
5. Tender validity period : 120 days
6. Time of completion : 6 Months. Work shall be taken up on hand immediately after 10 days from the date of issue of work order
7. Defect liability period : One monsoon after completion of work. S.D. will be released only after defect liability period is over.
8. Compensation for delay : Rs. 0.1 percentage of the contract value per day from the date of delaying the said work up to the date of completion .
9. Last date of receipt of tender by RPAD /speed post /courier : As mentioned in tender notice.
10. Place of receiving Tender Copies : Tender Officer/ Asstt. Manager (South Zone) 2nd floor, Ahmedabad Municipal Corporation, Rambaug, Maninagar, Ahmedabad-380008

Addl. C. E. (S.Z)

Dy.M.C(S.Z)

General terms & conditions

1. A booklet of FORM B-1 of Gujarat State Roads & Building Department / Water Resources Department with the correction slips made up to 15-08-1999 may be referred. (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 particular 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 execution 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.
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 10 days from the date of issue of the written work order to the contractor. 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 Corporation but 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 execute the contract agreement within 10 days from the date if issue of work order.
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.

Signature of contractor with seal
Date

Additional City Engineer (S.Z)
Ahmedabad Municipal Corporation

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 he 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.

Date:

Signature & Seal of Guarantor.....
Bank Address.....

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 Municipal Commissioner,
Ahmedabad**

Name of work :- **Constructing Central-Verge from Kankaria Police-chowky to Football Ground.**

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 the rates quoted by me/us are inclusive of the same.

Date:

Yours faithfully
Signature of the contractor
Address

Add.C.E (S.Z)

Dy. Municipal Commissioner

Tender Fee Rs..600.00
 Earnest Money Rs 4752/-
 Contractor's Name & Address

TENDER NO.. - 6
 Date of submission & Time : Dt 17-08-10 up to 12.00 Hrs
 Date of Opening & Time : Dt 17-08-10 at 14.00 Hrs.

TENDER FORM
 AHMEDABAD MUNICIPAL CORPORATION (SOUTH ZONE)
 ENGINEERING DEPARTMENT

Name of work :- **Constructing Central-Verge from Kankaria Police-chowky to Football Ground.**

No	Qty.	Items	Rate	Per	Amount
1		Supplying and fixing M-20 grade using black trap aggregate of Sevaliya/Timba or equivalent quality 20 mm. nominal size for pre-cast reasonably exposed finish/ formwork , mould with well equipped with vibratory system for kerb stones & top slab of approved design including curing, etc. complete, including the cost of formwork etc. complete. The rate shall also include for cutting asphalt erecting and fixing the kerbs in position with necessary equipments and materials. The rate shall also include filling the sand between the gap and flush pointing in CM (1:3) for all joints of the kerb stones & top slab. Filling of zari along the sides of the kerb stone fixed prepared with Bituminous concrete mixed in proper position as dire by Engineer in charge to form a portable mixture The rate is for fixing kerbstone on both sides. Gravel or such type of materials shall not be allowed for production. (Road S.O.R. 2006-07)			
	525.00	b) Cost of C.V with sand filling	518.00	Rmt	271950.00
2	265.00	P/L interlocking rubber Moulded paver blocks of high density 60 mm thick M-35 grade gray / colour as per instruction for footpath, parking, area, service lane and other areas as mentioned in the drawing. Rate includes excavation, refilling with compaction up to 30cm and removal and carting of the same. With 25mm to 40 mm sand bedding. The metalling shall be done as per the instruction and it shall be paid in relevant item. The work of the paving blocks shall be executed in line and level. It should be laid in such a way that the no cutting of the paver block is required. Paver blocks shall be compacted with use of Flat vibrator and shall be re-laid if necessary. shape design given by engg.in.charge-Road Project R.A	429.00	Smt	113685.00
3	525.00	Painting of any type C.C. Central verge curbes on roads in two coats with approved quality of enamel paint incl. cleaning the surfaces of all dirt, dust, mortar drops and other foreign matter and traffic control involved etc. comp. as directed.	30.00	Smt	15750.00
4	20.00	P/F and supplying reflective iron bolard incl. Fixing it in position with florecent colour & noxing etc. comp.	3250.00	No.	65000.00

5	100.00	Conveyance charge of earth, lime murrum, building rubbish, manure, garbage, sludge, excavated rock, fly ash, aggregates of any kinds etc. comp. (1) Lead up to 5.0 km. (Road S.O.R. 2006 -2007)	88.32	cmt	8832.00
		TOTAL Rs.		Rs.	475217.00

Contractor's Sign
Stamp & Mobile No.

Addl.C.E.
(South Zone)

Ahmedabad Municipal Corporation

**PRICE BID / TENDER FORM
SUMMARY OF PRICE SCHEDULE COST**

SR.NO.	NAME OF WORK	ESTIMATED COST PUT TO TENDER
1	Constructing Central-Verge from Kankaria Police-chowky to Football Ground.	Rs . 475217.00
Total		Rs 475217.00

I/We am/are willing to carry out work at _____% above / below (should be written in figures and words) the estimated cost mentioned above. The amount of my/our tender works out as under

Estimated cost put to tender Rs.475217.00	Estimated cost put to tender Rs. 475217.00
Add _____% above : Rs _____	Deduct _____% below : Rs _____
Total : Rs _____	Net : Rs _____
In words : Rupees _____	In words : Rupees _____
_____	_____
_____	_____

Signature of contractor with seal
Date

Additional City Engineer (S.Z)
Ahmedabad Municipal Corporation

Specification

Name Of Work :- Constructing Central-Verge from Kankaria Police-chowky to Football Ground.

Item No. 1 :- Supplying and fixing M-20 grade using black trap aggregate of Sevaliya/Timba or equivalent quality 20 mm. nominal size for pre-cast reasonably exposed finish/ formwork , mould with well equipped with vibratory system for kerb stones & top slab of approved design including curing, etc. complete, including the cost of formwork etc. complete. The rate shall also include for cutting asphalt erecting and fixing the kerbs in position with necessary equipments and materials. The rate shall also include filling the sand between the gap and flush pointing in CM (1:3) for all joints of the kerb stones & top slab. Filling of zari alone the sides of the kerb stone fixed prepared with Bituminous concrete mixed in proper position as dire by Engineer in change to form a portable mixture The rate is for fixing kerbstone on both sides. Gravel or such type of materials shall not be allowed for production. d) Central verge with sand filling and top slab(600x450x75mm)

Kerb Stone & top slab Fixing For Central Verge Cost of central block 300mm -L x 200mm-B x 380mm-H Supplying and fixing **M-20** grade using black trap aggregate of Sevaliya/Timba or equivalent quality 20 mm. nominal size for pre-cast reasonably exposed finish/ formwork , mould with well equipped with vibratory system for kerb stones & top slab of approved design including curing, etc. complete, including the cost of formwork etc. complete. The rate shall also include for cutting asphalt erecting and fixing the kerbs in position with necessary equipments and materials. The rate shall also include filling the sand between the gap and flush pointing in CM (1:3) for all joints of the kerb stones & top slab. Filling of zari alone the sides of the kerb stone fixed prepared with Bituminous concrete mixed in proper position as dire by Engineer in change to form a portable mixture The rate is for fixing kerbstone on both sides. Gravel or such type of materials shall not be allowed for production. d) Central verge with sand filling and top slab(600x450x75mm)

The related technical specification is as narrated above.
Payment shall be done in rmt. basis

Item No 2 :- P/L interlocking Rubble mould paver blocks of high density 60 mm thick M-35 grade gray / colour as per instruction for footpath, parking, area, service lane and other areas as mentioned in the drawing. Rate includes excavation, refilling with compaction up to 30cm and removal and carting of the same. With 25mm to 40 mm sand bedding. The metalling shall be done as per the instruction and it shall be paid in relevant item. The work of the paving blocks shall be executed in line and level. It should be laid in such a way that the no cutting of the paver block is required. Paver blocks shall be compacted with use of Flat vibrator and shall be re- laid if necessary.shape design given by engg.in.charge

Scope of work:

Excavation and compaction up to 30 cm in height. for footpath paving in all sorts of soil murrum including sorting outs and stacking of useful materials stuff up to 50 mt. lead from excavated place and same will be carted. up to 5 km.

The scope of work includes manufacturing, supplying and laying of pre -cast paver blocks. The work includes :

- 1.1 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.
- 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 in your plant as per requirements of AMC's technical specification.
- 1.4 Supplying of paver blocks at site, including handling at both ends.
- 1.5 Laying of paver blocks at site as per requirement in technical specification, within shortest possible time the site is public place hence care should be taken to ensure that the routine activities shall not be disturbed. The job of laying may required to be carried out during night also.
- 1.6 Testing of paver blocks through reputed Govt./Non Govt. Test house 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 incl. carting of materials.
- 1.7 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 from the date of completion of work. However, the contractor shall render free maintenance for one year.

TECHNICAL SPECIFICATIONS :

I) Paver Block Manufacturing Facilities:

The Paver Block shall be made in factory with following minimum facilities & shall be got approved before carting materials to site.

- 1.1 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.
- 1.2 Concrete Batching & Mixing
The factory should equipped with automatic control panel for maintaining water cement ratio from batch to batch to obtain concrete of uniform quality and strength.
- 1.3. Curing:
The factory should have well designed curing area to ensure adequate curing of paver blocks.
- 1.4 Laboratory (Desirable but not essential):
The factory should have the following:
 - (i) Compression testing machine of adequate capacity.
 - (ii) Other tools and equipment for testing raw materials and paver blocks.
 - (iii) (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.

II) SPECIFICATIONS FOR COLOURED PAVER BLOCKS:

Coloured concrete paver blocks shall be manufactured as per specifications using 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. Otherwise contractor shall have to replace it without any cost.

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

III) 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 pavers.”

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.

IV) Paver Block Dimensions :

Thickness	60mm
Shape	Uniregular (Uniform Shape with no Hollow Or Creacks) Uni, I shape, tri hex or directed by Add .C.E.
Chamfer	4mm to 6mm along top edges
Colour	a. Natural cement grey colour without use of any pigment. b. For coloured pavers refer “specifications for coloured

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

V) Testing of Paver Blocks :

SR. NO.	* TEST	SPECIFICATION Average Values (Average of Minimum Five Samples/Site)
1	Compressive Strength	Min. 35 N/Sqmm for 60mm thick
2	Flexural Strength	Minimum 4.5 N/Sqmm
3	Abrasion Resistance	Maximum 1.5
4	Water Absorption	Maximum 5.80%
5	Minimum Cement Content	380 Kg/Cum (Not Essential)

* Sampling and Testing procedure as per enclosed specifications

SAMPLING AND TESTING PROCEDURES FOR PAVER BLOCKS.

Sample Size :

INTERNAL – Average of minimum 3 samples per 5000 Blocks.

Essential – Minimum 2 Blocks per 10000 blocks. Average of minimum 8 blocks per site.

1. Sampling For Testing

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

2. Compressive Strength

Testing for compressive strength shall be undertaken in accordance with standard test as suggested by AMC. The average compressive strength of the blocks tested shall be Min. 35 N/Sqmm.

3. Abrasion Resistance

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

4. Flexural Strength

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

5. Water Absorption

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

Appendix – A

Sampling of Paver blocks.

1. 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.

2. 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 ± 3 degree C for

24 hours prior to testing. Payment shall be made after testing result, cost to be borne by the contractor.

The mode of measurement shall be on Smt. basis.

Item No. 3 Painting two coats incl. priming coat on new surfaces with enamel paint interior to give an even shade incl. cleaning the surface off all dirt. Dust and other foreign matter sand papering and slopping as directed by eng. In charge on central portion along with the central verge Etc.comp.

Related Technical Specifications of above item are as per Government Building Works Technical specification book Section – 19 items on pg.120 onwards

Item No 4 :- P/F and supplying reflective iron bolard incl. Fixing it in position with florecent colour & noxing etc. comp.

As per Item.

Item No. 5 Conveyance charge of earth, lime murrum, building rubbish, manure, garbage, sludge, excavated rock, fly ash, aggregates of any kind etc.comp. up to lead 5.00 km as dire.

All the surplus earth etc. shall be carried away immediately from the site of work to a place within a 5 km. distance as directed and shall be dressed as ordered by the Engineer, so as not to cause any inconvenience to the public or traffic. Failing which in view of public safety and traffic convenience the Corporation shall carry out the work by any other agency at the contractor's risk and cost. If the instructions are not complied within 7 days from the date of order to cart the surplus materials and clear site, the said work shall be carried out by the Municipal Corporation at the risk and cost of the contractor and so claim or dispute entertained in this respect. Payment shall be done in cmt. basis

**CONTRACTOR'S SIGNATURE
& STAMP
Mobile No.:-**

**ADDL. CITY ENGINEER
(South Zone)**

GENERAL SPECIFICATION

South Zone A.M.C.

Name of work : Constructing Central-Verge from Kankaria Police-chowky to Football Ground.

The work shall be completed within 6 months after the order to start the work.

The details of reinforcement of R.C.C. work shall be as per design and instructions of city engineer and his order will be considered final.

The contractor shall have to maintain account of steel, cement & other materials that may be brought by him on site. This account shall be regularly maintained & kept open for inspection by municipal staff. Watering of all the item shall be done as per instructions. Mixing of concrete shall be done by concrete mixer machine. Arrangements of bringing vibrator for R.C.C. work if required shall have to be made by the contractor.

The contractor shall remain responsible for Workmen's compensation, if any when such case occurs. The contractor shall arrange for red lamps at night & fencing & gates & shall be responsible for any damage of life & limb or property if any happen, during the execution of work. In case of dispute for unseen or overlooked item the decision of the city Engineer shall be final. The contractor shall have to give site clean of all rubbish on completion of work & hand over the building with final finishing of the work as directed. All the rejected materials shall be removed from site within 24 hours by contractor at his risk & cost.

For mixing mortar either for masonry or for plaster or for any other purpose contractor shall have to prepare through of bigger size & mix the mortar in the trough required proportion. In 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 & shall pay the water charges as per water meter.

If any extra item crops up during the progress of work the same shall be carried out by the contractor & he shall be paid at the rate fixed by C.E. as per the rate analysis based on current market rates.

If in the interest of the Corporation it is necessary to change either any site or the design of the proposed work the contractor carry out the same at his quoted rates without charging any extra & the contractor will have to carry out the works & he will be paid at the rates quoted by him & on claim for extra for subsequent changes may be entertained.

The cubical contents of the cement bag shall be taken as 1.20 cft. per bag & the contractor shall have to prepare the measure boxes according to this measure.

The R.C.C. or specified work shall not be done on Sunday & holiday except in emergency or when technical requirements are such that continuity of work should be maintained & that will be with prior permission of the competent authority.

Retention money at the rate of 2 % shall be deducted from every running bill of the contractor & which will be paid at the time of final bill; for works costing than Rs. 10.00 lakhs.

Octroi exemption passes shall not be given for any materials required for this 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 period of 90 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 this period. If any tenderer withdraw or makes any modification (s) of addition (s) in the terms and the conditions of his tender, not acceptable to the Muni. Corpo., then the Muni. Corpo. shall, without prejudice to any right or remedy be at liberty to forfeit in full the said earnest money absolutely.

As per circular no. M.C.R. 2176 (96). 2418 (ii) CHH dated 31-08-1977 issued by Govt. of Gujarat contractors are requested to procure their quarry materials required for construction work through legal sources i.e. only from the quarry lease, holders, permit holders or middleman who satisfy the contractor as to the legality of the source of Purchase by him on these materials.

Conditional tender will not be accepted. All tender are to be submitted in duplicate without which the tender liable to be rejected.

If the work is not completed within the time specified penalty of Rs. 100/- per day from the bills Payable to the contractor.

Contractor's Sign.

Addl. City Engg. (S.Z.)

y b cãJ tãEQRl rmvj f tu tãNl

ÄtK í tu - E s l b F tãp

x lzhl eNh<tu

1. mbgbgtet Jf p tãb y tãgt <theF l tk l 0 roã m&eNY &gju d KJ tbtky tJ Nu <&t 5 % (v tã xft) j E u (vuy tãb, zãb tLz z[Vx, a tã y &J t l Nl j tEÍ c ã d b k e) zã tã ex C hef hthv ð t f hJ t l tu h Nl u
2. Nh<ex lz h M ð thJ tbtky tJ Nu rn.
3. x lz h J ju e x e 1 2 0 r>J m M ð e h n Nl u
4. x lz h M ð th ð h> f h ð f t u y t v ð y l u f g t C t J & e y t v ð < u y ð u z u E Q r l . f r b N l h ð d t u r l K g y t F h e h n Nl u
5. >hã y t E x b l t k W N l e v ð N l f t u t b N l l t k b s w & g j u M N l e v ð N l E p s c < & t c e 1 V t b b e N h < t u E p s c h n Nl u l u z u m e x e y u S l e g h ð d t u r l K g y t F h e h n Nl u J t w h ð d f h J t b t k l r n y t J u f u > h h t s J ^ t h t l t u z a h é W t z J t b t k l r n y t J u < t u f t l x f f x h l t k F a o y l u ò E b u j d h l t w e m u j t w h ð d f h t J J t b t k < & t z a h é W t z J t b t k y t J N u y l u c e j b t k e h f b f t v e j u t b t k y t J N u
6. y ú e J F < u y ú f h < t k J e p s o g t y t y u f t b N Y f h J t l t u j f p tãb b ð u < t u f t b y ú m t & u s y ú s c < t J j u s o g t y u f h J w z N u y ú f t b Ä Á & t g v A e c e s v t b N Y f h e y u < ð k a t j N u r n .
7. x lz h C h < e J F < u y l u k b l e C h J t l e h n Nl u
8. f t b y t v < e J F < u s u f t l x f f x h l p h S M N l e g t l b t k t F d u < l u e b g t e b t k f t b y t v J t b t k y t J N u
9. a t ð f t b u f t E v K m r J m j t E l l u l f N t l l & t g < u h e < u f t b f h ð k v z N u ò u f t E m r J m j t E l l u l f N t l & N u < t u < l u e m E K o s J t c a h e (ò l b t j l e) f t l x f f x h l e v t u t l e h n Nl u m t E x v h f t b a h E g t l b s w f u s l < t l t f t E b t K m l t ò l b t j l u w N t l & t g < l u e s J t c a h e f t l x f f x h l e h n Nl u v t j e m V h e g t > & t g < t u < l u e s J t c > t h e v K f t l x f f x h l e h n Nl u C E z ^ m e l v z u < l u e s J t c > t h e v K v t j e m V h e g t > b t k f t l x f f x h l e h n Nl u C E z ^ m e l v z u < b t x u m j t b < d t v d j t k (s u t f u > t b z k t k e b s q F t z t b t k W t h J t , m t b ð d y l u M k ð d f h J t r J d b u j e t J d h b s q l u F t z t b t k W t h N u < t u f t l x f f x h s v t j e m V h e g t > b t k s J t c t > h h n Nl u y l u E Q r l . f t u t b N l l t u f t E v K M t V y t l t b t x u s J t c > t h h n Nl u r n . y t x ð k m b S l u s x lz h C h ð k B s w l u t u r j b t w K W t h t J J t u
10. y t x lz h s u < u J d b t b t L g g t o e l t f t l x f f x h t u C h e N f N u d J b L x l t b t L g f t l x f f x h u y . E Q f t u t b t k b t L g f t l x f f x h t u e g t o e b t k h S M N l f h t J J t l p h n Nl u
11. y t W h t k y . E Q f t u t u l t s l h j f t l x f f x L z e N l y l u v t b o c e 1 l e N h < t u c R l f < b h n Nl u s E Q r l . f t u t b N l J a m t E x www.egovame.com W h E f j u A u
12. f t l x f f x h l u b l u x - h l ð d c e j E Q r l . f t u t u l t s u < u a t ð m b g l t m h f ð h E p s c f h J t b t k y t J N u
13. f t E v K f t g a f e g j e x e d N l y b cãJ tãE N n b l e f t w b t k h n Nl u

14. M– vrh– / s Yheg t< Eps c f tb f htJ <t x lz h b t k s K t J j u f J t l x e d t k J ^ D x & N u < t u < u y b u f t l x f f x h i t h t f t E v K « f t h l e J ^ t h t l e l t K t k e g b t d K e f h e N f N u l r n . y l u f t b y t a v & t g < t u f t l x f f x h l e J ^ < h l e b t d K e M l e t h J t b t k y t J N u l r n .
15. m t E x v h j t J J t b t k y t J j u b t j m b t l h e s f u x f h J t b t k y t J u < t u o p h k r > l - 1 5 b t k v h < j E s J t l t u h n N u y L g & t f t u t b N l i t h t < u h e s f u x b t j l t u l f t j f h e > u t b t k y t J N u y l u < l e l f N t l e s J t c > t h e f t l x f f x h l e h n N u
16. r o O ' d f t b l e y t E x b t u b t x u - s l h j x f l e j M l e v e f N l y t V r c O ' d J f o m l e c p f E p s c y L p m h J t l t k h n N u M > h A p m e t o p s h t < c p f M k t m o 2 0 - c e z e M e f N t u ' d , m u x h - 2 1 , d t k e d h & e b e h n N u s u J o m t E x www.egovamc.com W h e f j u A u
17. b x e h e j f u c e o x M k ' d h e v t o f t l x f f x h u v t u t l t F a o f t u t b N l s K t J u < u s o g t y u f h t J J t l t h n N u y t y b l u t u m e K o f a o < t E g w . M k t V l u j o t u h e M e < t b l u o v u a h ' d s o g t M e j t J J t - j E s J t l t u F a o v K f t l x f f x h u C t d J J t l t u h n N u
18. j a h y f u x « b t K u h S M N l y b u y b j f h J t l t u h n N u & t f u j t j o h j t J N t u < w K s K t J J t l p h n N u j o h y f i x « b t K u f t g d t n e l r n & E n t g < t u < u b t x u f t l x f f x h m e K o K u s J t c > t h n N u y l u < l u w b l x y t v J t b t k y t J N u l r n < b s c t e b s t u u f t b W h h t F e N f t N u l r n .
19. b t j s u < u M k t m o W h y & J t m t E x W h j t t i t u l z < h l & t g < u h e < u M e l t E p s c W k t h J t l t u < b s d t J J t l t u h n N u
20. m o m x u t , y t u x f g , m h a t s o y L g x u t f u y L g f t E v K m h f t h e f h J b t C h J t l e s J t c > t h e f t l x f f x h l e h n N u
21. o u E p y l S l e g h ' d M k t V s K t J u < t u f t l x f f x h u a t o p f t b u m t E x W h z e e j f b b t e f t b a t o p & g t v n j t , a t o p f t b u < t f t b e K o & g t l t k V t u d f V m E p l . y t d v m b t k y t v J t l t k h n N u < u r m J t g f t b l p k b l x f h J t b t k y t J N u l r n o u M k t V e a l t y t v u < t u f b b t b t e f t b a o p h b t k V t u x l m V h f h e y t v J t l t h n N u y t y b u f t E v K J ^ t h t l t u F a o y t v J t b t k y t J N u l r n .
22. f t E v K f t h K m h x l z h h > f h J t b t k y t J u < t u f t l x f f x h < u y b u f t E v K « f t h l t u n - > t J t u f u j ^ < h l e b t d K e f h e N f N u l r n . y t N h < M l e t g o n t g < b K u s x l z h C h o k
23. b x e h e g O n s u t f u h e e # x t u m e b l x , v t E v , r J d b u M k t L z z o b x e h e g O n M l e v e f N l « b t K u t j t J J t l t h n N u s g t k f t E a t E J x l & E n t g o g t k y t E . y m . f t a « b t K u b x e h e g O n j t J J t l p k & t x M k ' d f h t J J t l p h n N u < b s f t l x f f x h u m b v j y u e f h t o t c t > f t b N Y f h t J J t l p h n N u
24. s u f t l x f f x h v t m u b s t u t u r J b t u y d t W e W k h t o t u n t g < b l u k t ^ t l g f t b y t v J t l p k y t v e N f N u
25. y t x l z h b t k o u f t E y t E x b h n e d E n t g < t u < u a t o p y m . y t u y t h . b t e j u t b t k y t J N u y l u o u y m . y t u y t h . b t k y t E x b l n t g < t u b t f h e x & e h e x y l u t j e m e m f h e s u C t J F t < t < h v & e y t v u < u f t l x f f x h u j u t l t u h n N u y t m b S l u s x l z h C h J t l p h n N u f t l x f f x h l e b t d K e E p s c C t j b e N u l r n .

26. at Q p f tb > h B g t l « t u f N l l e m K os J t c > t h e f t l x f f x h l e h n N u s b t k v e v z t , > t b z t , C g M a f c t a p A j t M e f v e e r J . f t l x f f x h u j t J J t L k y l u m t a J J t L k h n N u y l u f t E v K y f M b t < & N u < t u < l u e m K os J t c > t h e f t l x f f x h l e h n N u
27. b s b t u f u h t n > t h e y t u u f t E v K « f t h l t u y f M b t < & t g < t u < l u e v t j u e m f t g d t n d e f u j a h y f u x b w c l e f t g d t n d e s J t c > t h e y b . B q r l . f t u t o l t f b a t h e y t u e f t E v K h e < u h n N u l r n . b t p t f t l x f f x h s y t b t x u s J t c > t h h n N u b s w t u u d b c E x , n O u n t & l t k b t o r J d b u f t l x f f x h u v h S g t < y t v J t l t k h n N u b s w t u < & t M v h J t E i f u E f t > b l t u r J b t u v K W k t h J t l t u v h S g t < h n N u j a h y f u x E p s c l t k e f h t J e < l u t r l g b t u p v t j l f h J t f t l x f f x h c R t g j u h n N u c t a b s w t u h t F e N f t N u r n .
28. M k t V M a l t y t v u < t u m t E x W h z E j e « t d t n h S M k h f t l x f f x h u h t F J t L k h n N u > h h t a y t m e m e x e y u S l e g h o d e < b t k m n e j u t l e h n N u < b t k > h h t a f t b f h c t b s w t u e m k g t , f h j u f t b d e h e < & t y r ^ f t h e y t u u f t b M p ^ t h J t f u « t d t n J ^ t h J t l t k f h j u n t g < t u < l u p k f t B j t g L m y t v J t L k h n N u y t J e l t k l t k s J t c l & g u f u k u « b t K u M a W h y b j l & g u f t l x f f x h l u h h t a Y t . 2 5 0 / - j E u l u O e f h J t l e m t t y a e m e x e y u S l e g h o d u h n N u k u y u f t l x f f x h f t E J t k t u j E N f N u r n .
29. f t E f t h K m h o u f t l x f f x h l u f t b l y t v e N f t g < t u < u y u f t l x f f x h f t E v K « f t h l t u l p N t l e J a < h l t u n - > t J t u f h e N f N u r n f u f t g > t f e g f t g d t n e y t y u u & E N f N u r n . x l z h b k w & g t l t u y & d f t b y t v e s > u t l p k A u < u t u & E N f N u r n .
30. r l g < m b g b g t e t b t k f t b A p y l & g u k r < r > l Y t . 2 5 0 / - (c M n t w a t m) v u O e B q r l . f t u t b N l l u a p J J t l e h n N u
31. h t s g / f l u m h f t h o d t J F < t u F < l t f t g > t E p s c s u f t E h f b l e f v t < f h J t l e & N u < u b w c f t l x f f x l t c e j b t k e f v t < f h J t b t k y t J N u
32. j a h J O v b V k b t x u n t j b t k h t s g m h f t h o e y u f h j u n w b E p s c 1 % (y u x f t) h f b c e j b t k e f t v e j u t b t k y t J N u
33. b x e h e j x M k e l t u x M k e l t u F h E h & g j u F a d t l x f f x h o e v t m u e J m j v f h J t b t k y t J N u
34. y t v h y & J t x l z h b t k o n t o j u y t R x b l t u s U t u m C r j < s U t u A u s b t a t j w f t b o h B g t l V b V t h & J t l e N % g < t h n j e A u
35. x l z h l e y t N h < t u e - 1 V t b b t k s K t J j u N h < t u y t u h Y j f h N u
- W h t u < N h < t u k & t r l g b t u b k t a S A e b J t a j u A u y l u b l u f c E b k b q A u

f t l x f f x h l e m n e - r m - t u
b t a t E j l k h m t & u

y a e m e x e y u S l e g h
(o e r u t K i t u)