



# COEP Technological University

(COEP Tech)

A Unitary Public University of Government of Maharashtra  
(Formerly College of Engineering Pune)

Wellesley Road, Shivajinagar, Pune-411005, Maharashtra, India

Prof. Y. T. Lomte Patil

Tel- 02025507208

Email-ytl.civil@coeptech.ac.in

Website- www.coeptech.org.in.

Ref No.: COEP/Civil/YTL/2024/4680

Date: 16/12/2024.

प्रति,

मा. आयुक्त तथा संचालक,  
नगरपरिषद प्रशासन संचालनालय, वरळी,  
मुंबई- ४०००३०

विषय: जामनेर नगर परिषद अंतर्गत महाराष्ट्र सुवर्ण जयंती नागरोत्थान योजनेतील रस्त्यांची व  
नालीच्या कामांचे) 38 कामे ( तिसरे व चवथे धावते बिलाचे त्रयस्थ तांत्रिक लेखापरीक्षण  
करणेबाबत

संदर्भ : जा. क्र .१२६ /२०२४-२५ नगर परिषद जामनेर , दिनांक १९/०७ /२०२४

Sir,

With reference to above letter the third-party technical inspection of "नगर परिषद,  
जामनेर, हद्दीत शासनाच्या महाराष्ट्र सुवर्णजयंती नागरोत्थान (राज्यस्तर) या लेखाशीर्षा अंतर्गत रस्ते विकास  
कामे "

has been carried out. In this regard, the site visit was made on 6<sup>th</sup> October 2024  
along with Mr. Raut (City engg) Jmaner, and the detailed technical inspection  
report is prepared based on the observations and the documents made  
available by the Nagar Parishad. The report is attached herewith for your  
information.

Thanking you,

Signature & Seal of Third-Party  
Authority

Prof. (Mrs.) Y. T. Lomte-Patil  
Assistant Professor  
Civil Engineering Department  
COEP Technological University, Pune-05

प्रत:

मा. मुख्याधिकारी, नगरपरिषद, जामनेर यांना माहितीसाठी

नगर परिषद जामनेर हद्दीत नागरोत्थान अंतर्गत रस्ते व नाली कामे ३ रे आणि ४ थे धावते बिल

1



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नगरपरिषद प्रशासन संचालनालय, वरळी,  
मुंबई- ४०००३०

विषय: जामनेर नगर परिषद अंतर्गत महाराष्ट्र सुवर्ण जयंती नागारोत्थान योजनेतील रस्त्यांची व नालीच्या कामांचे) 38 कामे (तिसरे व चवथे धावत्या बिलाचे त्रयस्थ तांत्रिक लेखापरीक्षण करणेबाबत  
संदर्भ : जा. क्र .१२६ /२०२४-२५ नगर परिषद जामनेर , दिनांक १९/०७ /२०२४

मा. महोदय,  
वरील संदर्भीय विषयानुसार जामनेर नगर परिषद अंतर्गत महाराष्ट्र सुवर्ण जयंती नागारोत्थान योजनेतील रस्त्यांची व नालीच्या कामांचे) ३८ कामे त्रयस्थ (तांत्रिक लेखापरीक्षण (Third Party Technical Audit) चा अहवाल खालीलप्रमाणे आहे.

(नमुना-तीन)

रस्ते प्रकल्पाच्या त्रयस्थ यंत्रणेमार्फत तांत्रिक तपासणी अहवालाचे प्रपत्र

## TABLE OF CONTENT

Sr. No	Description	Page No.
1	Introduction	3
2	Scope of Work	4
3	Details of Site visit	5
4	Cost of Approved Road Project:	6
5	Work Progress	7
6	Financial Progress	9
7	Material testing reports and its frequency:	11
8	Observation & Findings:	13
9	Site Photographs:	14
10	Conclusion:	14

Prof. (Ms.) Y. T. Lomte-Patil  
Assistant Professor  
Civil Engineering Department  
COEP Technological University, Pune-05.

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Website- www.coeptech.org.in

## 1 INTRODUCTION

Following is the brief introduction of the project which include the following information of the 38 road.

A	Name of Project	Construction of Cement Concrete Roads & CC Drains of Road Under Municipal Council Jamner Dist. Jalgaon ( <b>Total 38 Works</b> )
B	Location of Project:	Municipal Council Jamner
C	Name of the scheme in which the project Sanctioned	Mharashtra Suvarn Jayanti Nagorothan Mahaabhiyan 2023-24
D	Date and amount of administrative approval	शासन निर्णय क्र./ नगरो -२०२३ /प्र.क्र. -४२३ /नवि-३३/ दि. २६-१०-२०२३ ( रु १२१,९१,०९,१९१/- कोटी )
E	Date and amount of technical sanction approval	जा.क्र. का-२ /रस्ते-३/जामनेर न.प./ ता.मा./ ६०५९/२०२३ दि.२३-१०-२०२३ ( रु १२१,९१,०९,१९१/- कोटी )
F	Financial pattern	90% State Govt. 10% Nagar Panchayat Jamner.
G	Name of Contractor	M/s Sarda Constructions Beed
H	Date of work order and estimate amount	न.पा.जा./साप्र/RR /२०२३ दिनांक २२/१२/२०२३ Rs. १२१,९१,०९,१९१/-
I	Date of start of work	19/01/2024
J	Quoted percentage above or below to the estimated cost	Rs. 121,91,09,191/- L1 (0.01% Below)
K	Time limit	18 Months
L	Defect liability period	10 Year
M	Security deposit details	State Bank of India, Sahayognagar branch, Jamner Deposit No. 8712966235-1 19/12/2023 Amount – 121,99,057/-
N	Name of Project Management consultant/Third Party Auditor	Prof. Mrs. Y. T. Lomte Patil, COEP technological University, Formerly College of Engineering Pune
O	Details of various approval from local bodies and other department	नगर परिषद ठराव क्र. ३१/दिनांक १६-०६-२०२३

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3



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## 2. SCOPE OF WORK

Details of work carried out by auditor is mentioned in the report.

i	Carrying out site visits during construction/ post construction site (as per Tender Specification).	Site visit during construction is made for Construction of Cement Concrete Road of 1) Pachora Road to Aashirwad hospital 2) Prakash nagar Road 3) Shree Krushna nagar internal road 4) Dhanushya Colony & Sainath nagar internal road 5) Chanddev nagar area colony  The visit is carried out on 06/10/2024 The work is in progress. The work is in progress.
ii	Conducting consultation with contracting agencies, officers of concerned Municipal Corporation.	Following officials were present at the time of site visit. 1) Prof. Mrs. Y.T. Lomte Patil, Assistant Professor of Civil Engineering, COEPTU, Pune 2) Rajendra Patil, Engineer, Sarda Constructions .
iii	Scrutiny of procedures used for approval of design and drawings.	1. जा.क्र. का-२ /रस्ते-३/जामनेर न.प./ता.मा./६०५९/२०२३ दि.२३-१०-२०२३
iv.	Verification/ Review of Material testing reports as per relevant IS/ IRC/ ASTM/ AASHTO Standards and its frequency.	PWD quality control lab Jalna for all Materials sample reports are available.
v	Verification/ Review of completed work.	At the time of site visit the construction of concrete road was approx. 26.78% completed and remaining work was in progress. The verification of completed work is carried out during field visit.
vi	Collection of cores from completed road sections and testing as per relevant codes and any other required test	Rebound hammer test carried out on the completed roads in presence of Third Party auditor and engineer from Nagar Parishad. Thickness of PQC M30 Pavement are actually measured on site and found adequate. Advised to take Core samples for strength considerations.
vii	Analysis of documents including design, drawings, testing reports etc.	Testing reports of the material tested in laboratory were examined, documents of Administrative Approval and technical sanction is verified, and the sanctioned estimate is checked during the site visit.
viii	Conclusion based on documents available and site visits.	Based on the test results and the site inspection, the construction of completed C.C. Road and RCC drain is found satisfactory.

Prof. (Mrs.) Y. T. Lomte-Patil  
Assistant Professor

Civil Engineering Department

COEP Technological University, Pune-05,

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3.

## DETAILS OF SITE VISIT

Site visit during construction is made for completed and in progress Cement Concrete Roads from the list below:

- 1) Construction of cement concrete road from Pachora Road to Aashirwad hospital
- 2) Construction of cement road Prakash nagar Road
- 3) Construction of Shree Krushna nagar internal road
- 4) Construction of cement road Dhanushya Colony & Sainath nagar internal road
- 5) Construction of cement road Chanddev nagar area colony

Following officials were present at the time of site visit.

1. Prof. Mrs. Y.T. Lomte Patil, Assistant Professor of Civil Engineering, COEPTU, Pune.
2. Shri Nayan Municipal Engineer Municipal Council Jamner
3. Rajendra Patil, Engineer, Sarda Constructions.

The roads are constructed in different parts of JAMNER city. The locations are given below;

1	<b>Name of Sub- works: -</b> <ol style="list-style-type: none"><li>1) Construction of C.C. Road and Drain from Bajrangpura main road</li><li>2) Construction of cement road from Old Bodhvad road Sahara clinic to Bismilla chowk</li><li>3) Construction of C.C. Road from Old Bodhvad road Majjit to Z.P Urdu school</li><li>4) Construction of cement concrete road from Old Bodhvad road Gandhi chowk to majjit road</li><li>5) Construction of cement concrete road Gath No. 729 under</li><li>6) Construction of cement road from Gath No. 438 Samarth Hospital to Ganpati nagar</li><li>7) Construction of cement road from Gath no 438 Main Road</li><li>8) Construction of cement road from Pachora Road to Aashirwad hospital</li><li>9) Construction of cement road from Gath No. 10/2 Eakta nagar Internal Road</li><li>10) Construction of cement road from Gath No. 422 Nearby Rajstani marbal main road</li><li>11) Construction of cement road Front of Baba ji Raghav mangal karyalay</li><li>12) Construction of cement road Prakash nagar Road</li><li>13) Construction of cement road Sagar agency to Mali mangal karyalay main road</li><li>14) Construction of cement road Pachora road to Railway station road</li><li>15) Construction of cement road Gitai nagar to Suyog colony</li><li>16) Construction of cement road Bajrangoura road to Bhaji Mandai road</li><li>17) Construction of cement road Eklavya nagar gharkul area road</li><li>18) Construction of cement road Ghode pir baba gharkul area</li><li>19) Construction of cement road Vardhman nagar internal main Road</li><li>20) Construction of cement road Ganesh wadi damale plot internal road</li><li>21) Construction of cement road Swami Residential internal road</li><li>22) Construction of cement road Datta chaitanya nagar internal main road</li></ol>
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Assistant Professor  
Civil Engineering Department  
Technological University, Pune-05

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5



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23) Construction of cement road near by Jain Stank
24) Construction of cement road near chippad garden
25) Construction of cement road Mathai nagar internal main road
26) Construction of cement road Shikshak colony internal road
27) Construction of cement road Shree Krushna nagar internal road
28) Construction of cement road Sonbardi Teakadi main road
29) Construction of cement road Sarsvati nagar to Jalgaon road
30) Construction of cement road Nakoda park internal road
31) Construction of cement road ITI & Madhuban colony internal road
32) Construction of cement road Dwaraka darshan park & Ganpati nagar internal road
33) Construction of cement road Shiv colony to Adkita bag
34) Construction of cement road Gath No. 724 internal road
35) Construction of cement road Dhanushya Colony & Sainath nagar internal road
36) Construction of cement road Chanddev nagar area colony
37) Construction of cement road Shivshakti nagar & Talathi colony & Indra nagar
38) Construction of cement road Pachora Road Van vibhag office road

#### 4. COST OF APPROVED ROAD PROJECT

The cost of approved road project as per DPR/ tender document along with percentage completion is mentioned in the following table;

##### Recapitulation sheet

Sr. No.	Name/Number of Road Section (As per DPR /Tender Document)	Total Cost	% of Work Completion
1	1) Construction of C.C. Road and Drain from Bajrangpura main road to Bismilla chowk 2) Construction of cement road from Old Bodhavad road Sahara clinic to Bismilla chowk 3) Construction of C.C. Road from Old Bodhavad road Majjit to Z.P Urdu school 4) Construction of cement concrete road from Old Bodhavad road Gandhi chowk to majjit road 5) Construction of cement concrete road Gath No. 729 under 6) Construction of cement road from Gath No. 438 Samarth Hospital to Ganpati nagar 7) Construction of cement road from Gath no 438 Main Road 8) Construction of cement road from Pachora Road to Aashirwad hospital 9) Construction of cement road from Gath No. 10/2 Eakta nagar Internal Road 10) Construction of cement road from Gath No. 422 Nearby Rajstani marbal main road 11) Construction of cement road Front of Baba ji Raghav mangal karyalay 12) Construction of cement road Prakash nagar Road	121.97 Cr.	25.53%

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13) Construction of cement road Sagar agency to Mali mangal karyalay main road		
14) Construction of cement road Pachora road to Railway station road		
15) Construction of cement road Gitai nagar to Suyog colony		
16) Construction of cement road Bajrangoura road to Bhaji Mandai road		
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Assistant Professor

Civil Engineering Department

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## 5. WORK PROGRESS

Details of physical work progress sub work wise is given below. The sub work wise items are combined for all roads under construction.

### PHYSICAL PROGRESS FORMAT:

Sr No	Sub Work	Quantity as per Tender	Unit	Quantity Executed till date	Physical Progress in %	Remark
Construction of CC Road						

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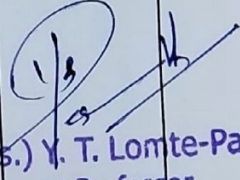
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1	Excavation - on Completion of excavation of roadway and transportation of excavated material	23.253	km	6.228	26.78%	Work in progress 26.78 % work completed
2	Hard murum- on Completion of Supplying Spreading and Compacting Hard Murum for Blanketing & Side Shoulders below paver block	23.253	km	6.228	26.78%	
3	G.S.B - on Completion Construction of Granular Sub Base of 0.20 m thick	23.253	km	6.228	26.78%	
4	D.L.C -on Completion Construction of Dry Lean Concrete of 0.10 m	23.253	km	6.228	26.78%	
5	M-40 CONCRETE - on Completion of M-40 concrete with 125 mm thick micron LDPE sheet , TMT FE -500 12 mm Tie Bar & 32 mm Dowel Bars	23.253	km	6.228	26.78%	
6	Cutting Joints - on Completion of Cutting of Transverse Contraction Joints and Filling with Poly sulphide Sealant	23.253	km	6.228	26.78%	
7	Paving Block - on Completion of Heavy Duty Paving Block Of 80 mm	23.253	km	2.638	11.34%	

Sr No	Sub Work	Quantity as per Tender	Unit	Quantity Executed till date	Physical Progress in %
<b>Construction of CC Drain</b>					
1	Excavation - on Completion of excavation of roadway for Drain and transportation of excavated material	46.506	Km.	17.787	38.24%
2	Soling- on Completion Soling of 80 mm Size of 0.20 m thick	46.506	Km.	17.787	38.24%

  
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3	M-10 - on Completion M-10 of 0.10 m thick	46.506	Km.	17.787	38.24%	
4	M-20 Concrete Head Wall -on Completion of Construction of M-20 Concrete Head wall including FE -500 Steel	46.506	Km.	17.787	38.24%	
5	M-20 Concrete Approach Slab - on Completion Construction of M-20 Concrete Approach Slab including FE -500 Steel	37.205	Km.	14.229	38.24%	
6	Utility Pipes and inspection Chambers - on Completion of Laying NP-2 Pipes of 600 mm Diameter and Construction of inspection Chamber of 90 cm x 45 cm x 90 cm and concrete cover to inspection chamber	2,460.000	Nos	0	0	Work in Progress
<b>Miscellanies Items</b>						
1	Thermoplastic Road Marking, Cat's Eye and board - on Completion of Providing and Fixing Thermoplastic Road Marking 2.5 mm thick, Cat's Eye of polycarbonate and ABS moulded and Retro - Reflectorised Board	10,000.000	No	0.00	0.00	Yet to start
1	Royalty Charges	7.460		2.178	12.61	
2	Testing Charges	28.650		8.357	12.60	

Prof. (Mrs.) Y. T. Lomte-Patil  
 Assistant Professor  
 Civil Engineering Department  
 COEP Technological University, Pune-05

Details of financial work progress sub work wise is given below. **The sub work wise items are combined for all roads under construction.**

### FINANCIAL PROGRESS FORMAT:

Sr. No. In GR	Sub Work	Amount as per Tender	Expenditure till date	Financial Progress	Remark
<b>Construction of CC Road</b>					



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1	Excavation - on Completion of excavation of roadway and transportation of excavated material	56,322,845	15085306	26.78 %	
2	Hard murum- on Completion of Supplying Spreading and Compacting Hard Murum for Blanketing & Side Shoulders below paver block	51,324,497	13746566.16	26.78 %	
3	G.S.B - on Completion Construction of Granular Sub Base of 0.20 m thick	78,876,365	21125961	26.78 %	
4	D.L.C -on Completion Construction of Dry Lean Concrete of 0.10 m	53,031,250	14203701.36	26.78 %	
5	M-40 CONCRETE - on Completion of M-40 concrete with 125 mm thick micron LDPE sheet , TMT FE -500 12 mm Tie Bar & 32 mm Dowel Bars	391,455,961	104846156.60	26.78 %	
6	Cutting Joints - on Completion of Cutting of Transverse Contraction Joints and Filling with Poly sulphide Sealant	22,187,787	5942695.32	26.78 %	
7	Paving Block - on Completion of Heavy Duty Paving Block Of 80 mm Thick	64,612,787	7330173.67	26.78 %	
<b>Construction of CC Drain</b>					
1	Excavation - on Completion of excavation of roadway for Drain and transportation of excavated material	21,212,500	8113077.59	38.24 %	
2	Soling- on Completion Soling of 80 mm Size of 0.20 m thick	16,336,063	6248003.92	38.24 %	
3	M-10 - on Completion M-10 of 0.10 m thick	30,477,730	11656710.45	38.24 %	
4	M-20 Concrete Head Wall - on Completion of Construction of M-20	297,584,554	113816202.65	38.24 %	

Prof. (Mrs.) Y. T. Lomte-Patil  
Assistant Professor  
Civil Engineering Department  
COEP Technological University, Pune-05

नगर परिषद जामनेर हद्दीत नागरोत्थान अंतर्गत रस्ते व नाली कामे ३ रे आणि ४ थे धावते बिल

10



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(Formerly College of Engineering Pune)

Wellesley Road, Shivajinagar, Pune-411005, Maharashtra, India

Prof. Y. T. Lomte Patil

Tel- 02025507208

Email-ytl.civil@coeptech.ac.in

Website- www.coeptech.org.in

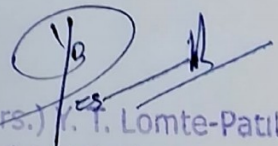
	Concrete Head wall including FE -500 Steel				
5	M-20 Concrete Approach Slab - on Completion Construction of M-20 Concrete Approach Slab including FE -500 Steel	88,141,595	33709810.07	38.24 %	
6	Utility Pipes and inspection Chambers - on Completion of Laying NP-2 Pipes of 600 mm Diameter and Construction of inspection Chamber of 90 cm x 45 cm x 90 cm and concrete cover to inspection chamber	21,090,589	0.00	0	
<b>Miscellanies Items</b>					
1	Thermoplastic Road Marking, Cat's Eye and board - on Completion of Providing and Fixing Thermoplastic Road Marking 2.5 mm thick, Cat's Eye of polycarbonate and ABS moulded and Retro - Reflectorised Board	7,192,744	0	0	
1	Royalty Charges	18,286,638	5338913.98	29.19 %	
2	Testing Charges	975,287	284480.64	29.16%	
	<b>Total</b>	<b>121,91,09,191</b>	<b>36,14,47,760</b>	<b>29.64%</b>	

## 6. MATERIAL TESTING REPORT AND ITS FREQUENCY

**The test reports of materials are awaited.**

Testing reports of different type of materials used in the construction of different layer thickness will be examined. Material Testing report will be carried out in approved laboratory by the contractor and the third party auditor will examine the test results.

Specimen format for the same shall be as follows;

  
Prof. (Mrs.) Y. T. Lomte-Patil  
Assistant Professor  
Civil Engineering Department  
COEP Technological University, Pune-05



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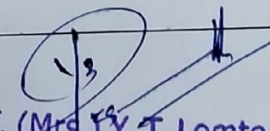
Email-ytl.civil@coeptech.ac.in

Website- www.coeptech.org.in

Sr. No	Description of Material	Qty. Executed	No. of test Required as per IS/RC/Morth	Actual Test Carried out	Remark
01	GSB	9920	One test for 400 cum	25	Testing of GSB Material Required to be tested more frequently.
03	CC DLC	4960	3 Sample in 1000 m <sup>2</sup> Area	50	Regular FDD Testing done on site at the time of rolling up to achieve required compaction
04	CC M-10	1640.00	As per is 456 Clause 15.2.2, 0-5m <sup>3</sup> - 1 set 5-15m <sup>3</sup> - 2 set 15-30m <sup>3</sup> 3 set	36	Regular cube casting done on site.
05	CC M-20	6396.00	30-50 m <sup>3</sup> 4 set and +1 set for every 50m <sup>3</sup> concrete.	131	Regular cube casting done on site.
06	CC M-30 PQC	9884.00	2 Cubes and 2 beams per 150m <sup>3</sup> or part there of (One for 7day and other for 28 day strength) or minimum 6 cubes and 6 beams per day's work whichever is more	66	Frequency of testing is adequate
07	MURUM	21836.00	2 Test Per 3000 Cum	30	

Results of the material testing are within the permissible limits of relevant I.S. codes.

The details provided by the officials were in line with the requirements.

  
Prof. (Mrs.) Y. T. Lomte-Patil  
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Civil Engineering Department  
COEP Technological University, Pune-05



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Prof. Y. T. Lomte Patil

Tel- 02025507208

Email-ytl.civil@coeptech.ac.in

Website- www.coeop.org.in.

## 7 OBSERVATION AND FINDINGS

Based on site visits, actual measurements and verification of material testing reports the common observations are as below.

### 1) Construction of cement concrete road from Pachora Road to Aashirwad hospital:

- The length of the CC Road as per provision is 110 m.
- The width of road including drain was found to be 5.27 m and 6.1 m at two places. The total thickness was found to be 270 mm
- The average rebound hammer reading was 38.

### 2) Construction of cement road Prakash nagar Road:

- The width of CC Road executed is 8.2 m – 8.5 m. The thickness was observed to be 280 mm
- The observations are taken at various places along the road. The average rebound hammer reading was 33.
- The CC drain was measured and is average 800 mm (W) x 750 mm (D), and wall thickness 150 mm.

### 3) Construction of CC Road and RCC drain Dhanushya Colony & Sainath nagar internal road:

- The provisions are GSB = 0.2 m, DLC = 0.10 m, PQC = 0.28 m and CC Drain on both side.
- The CC drain is measured and the width is 800 mm and depth 750 mm. Thickness of wall is 150 mm.
- The observations are taken at various places along the road. The average rebound hammer reading was 28.
- The width of CC Road executed is 7.2 m 7 m. The thickness was observed to be 280 mm and total length was 125 m.

### 4) Construction of C.C. Road Shree Krushna nagar internal road:

- The width of road including drain was found to be 5 m and 5.2 m at two places. The total thickness was found to be 280mm
- The observations are taken at various places along the road. The average rebound hammer reading was 34
- The CC drain was measured and is 550 mm (W) x 750 mm (D), and wall thickness 150 mm.

### 5) Construction of C.C. Road in Chanddev nagar area colony:

- The width of road including drain was found to be 9 m and 9.3 m at two places. The total thickness was found to be 280mm
- The observations are taken at various places along the road. The average rebound hammer reading was 34.
- The CC drain was measured and is 930 mm (W) x 540 mm (D), and wall thickness 150 mm.

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Assistant Professor  
Civil Engineering Department  
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Prof. Y. T. Lomte Patil

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Website- www.coeptech.org.in

## 8 SITE PHOTOGRAPHS

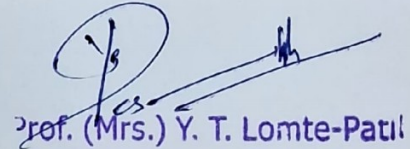
Attached

## 9 CONCLUSION

Based on all above mentioned points the conclusion/ suggestions about quality of work and status of completion of work will be given.

Based on the site visit and inspection, surface finish observations and verifying test results of material, the construction of C.C. Roads and preparations at different parts of the Jamner Municipal Council, till date is satisfactory.

Signature & Seal of Third-Party Authority

  
Prof. (Mrs.) Y. T. Lomte-Patil  
Assistant Professor  
Civil Engineering Department  
COEP Technological University, Pune-05

*Disclaimer: This report is related to technical aspects of the scheme and is based on the observations, testing (if any) and judgement at the site. Any legal complexities related to scheme are beyond the scope of this report. The Institute will not be responsible for any legal matters arising out of use of this report related to this scheme.*

प्रतः

मा. मुख्याधिकारी, नगरपरिषद, जामनेर यांना माहितीसाठी

Signature & Seal of Third-Party Authority

  
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Assistant Professor  
Civil Engineering Department  
COEP Technological University, Pune-05



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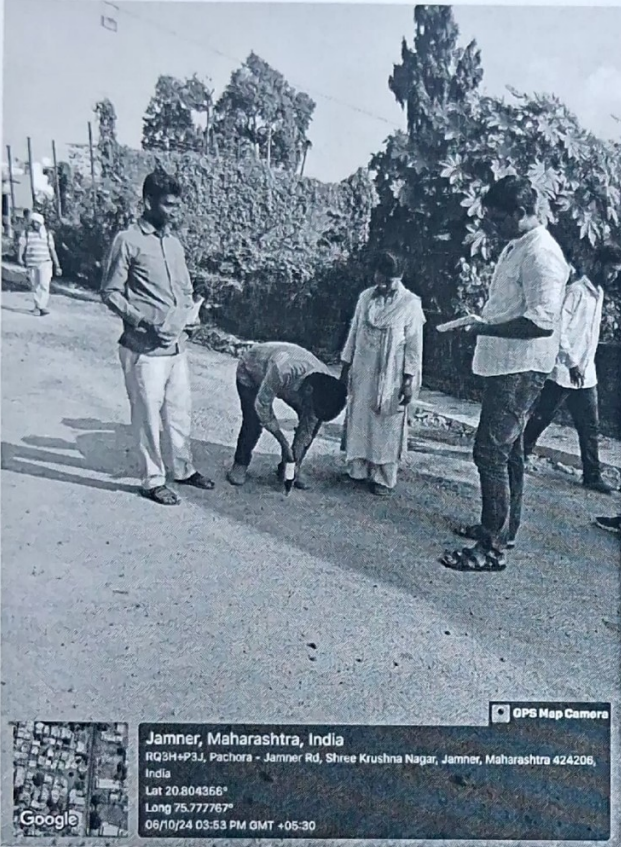
Prof. Y. T. Lomte Patil

Tel- 02025507208

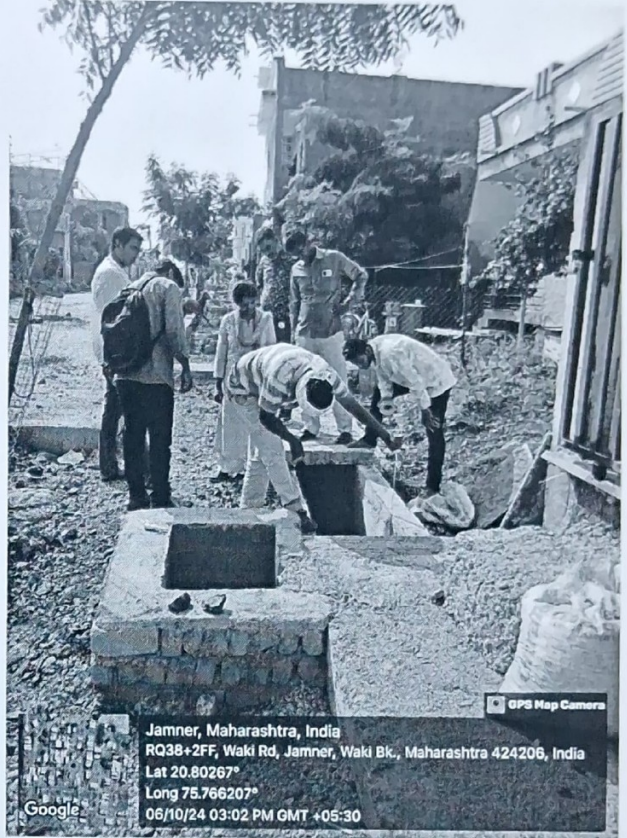
Email-ytl.civil@coeptech.ac.in

Website- www.coep.org.in.

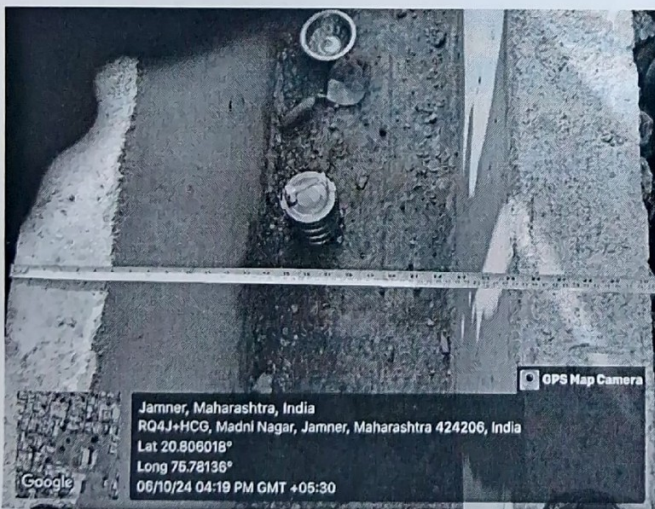
## PHOTOGRAPHS



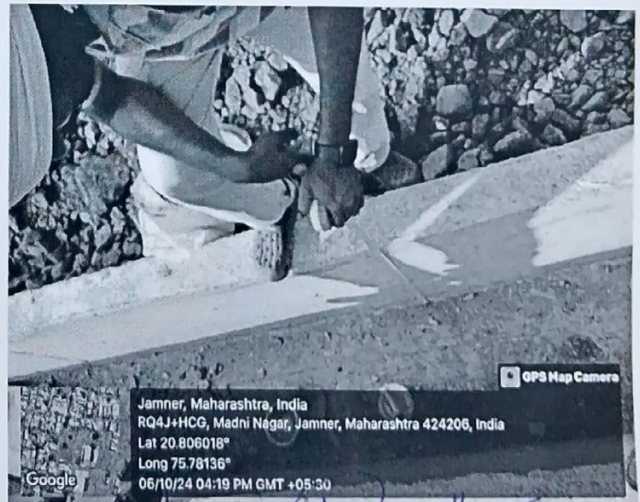
Jamner, Maharashtra, India  
RQ3H+P3J, Pachora - Jamner Rd, Shree Krushna Nagar, Jamner, Maharashtra 424206, India  
Lat 20.804356°  
Long 75.777767°  
06/10/24 03:53 PM GMT +05:30



Jamner, Maharashtra, India  
RQ38+2FF, Waki Rd, Jamner, Waki Bk., Maharashtra 424206, India  
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Long 75.766207°  
06/10/24 03:02 PM GMT +05:30



Jamner, Maharashtra, India  
RQ4J+HCG, Madni Nagar, Jamner, Maharashtra 424206, India  
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Long 75.78136°  
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Jamner, Maharashtra, India  
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Prof. (Mrs.) Y. T. Lomte-Patil  
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Civil Engineering Department  
COEP Technological University, Pune-05

नगर परिषद जामनेर हद्दीत नागरोत्थान अंतर्गत रस्ते व नाली कामे ३ रे आणि ४ थे धावते बिल



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Prof. Y. T. Lomte Patil

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Email-ytl.civil@coeptech.ac.in

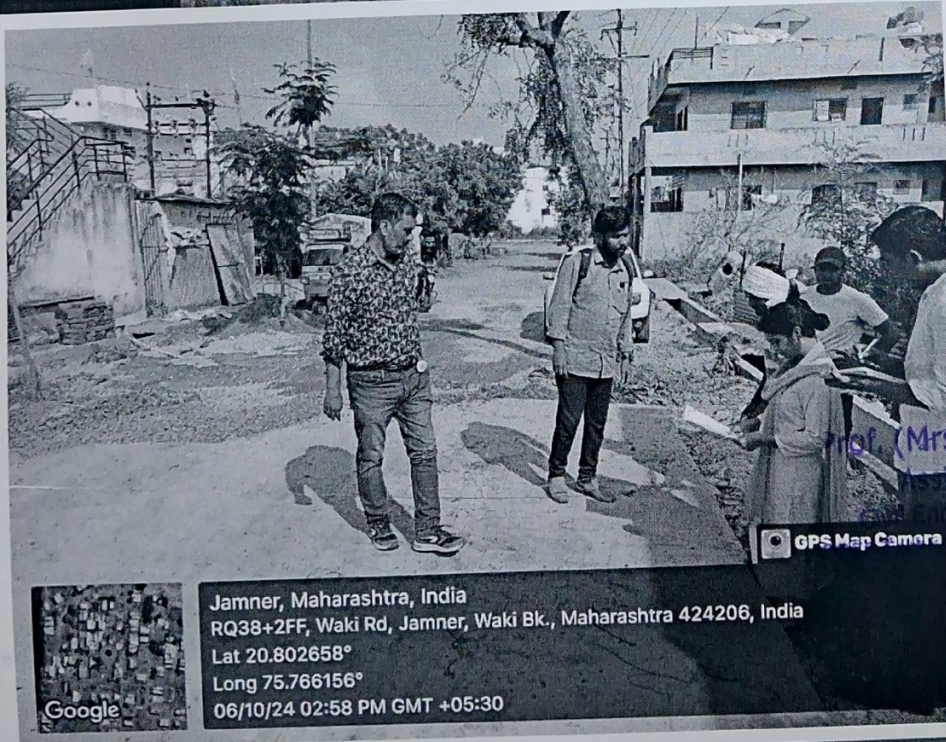
Website- www.coeptech.org.in.



Jamner, Maharashtra, India  
RQ3H+J4Q, Shree Krushna Nagar, Jamner, Maharashtra 424206, India  
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Jamner, Maharashtra, India  
RQ38+2FF, Waki Rd, Jamner, Waki Bk., Maharashtra 424206, India  
Lat 20.802642°  
Long 75.766158°  
06/10/24 03:00 PM GMT +05:30



Jamner, Maharashtra, India  
RQ38+2FF, Waki Rd, Jamner, Waki Bk., Maharashtra 424206, India  
Lat 20.802658°  
Long 75.766156°  
06/10/24 02:58 PM GMT +05:30

  
Prof. (Mrs.) Y. T. Lomte-Patil  
Assistant Professor  
Engineering Department  
COEP Technological University, Pune-05

नगर परिषद जामनेर हद्दीत नागरोत्थान अंतर्गत रस्ते व नाली कामे ३ रे आणि ४ थे धावते बिल



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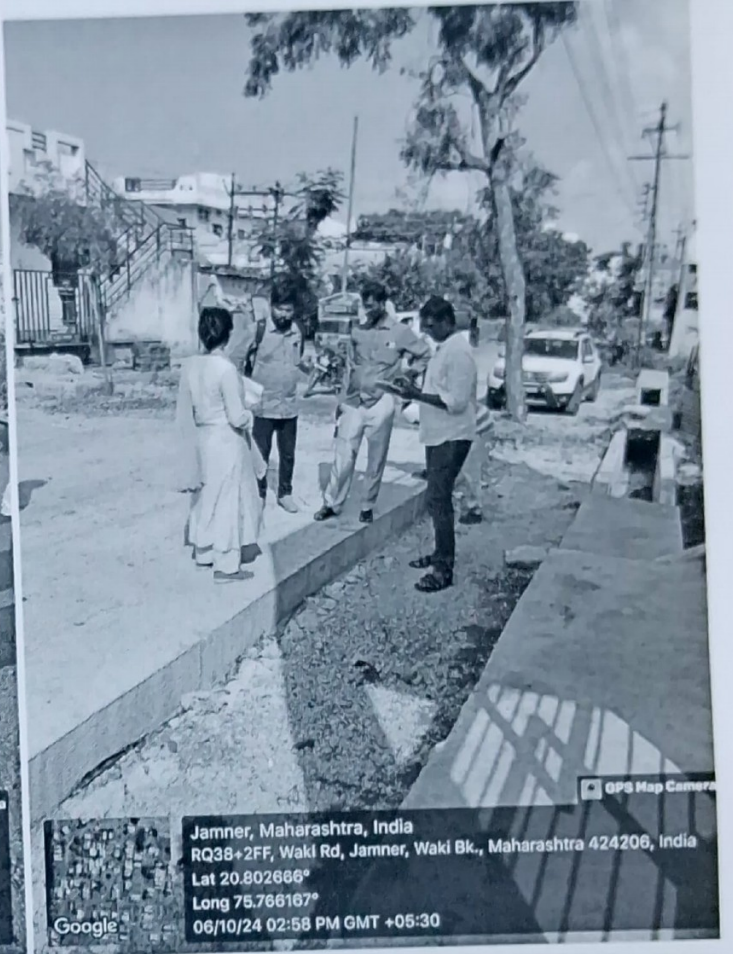
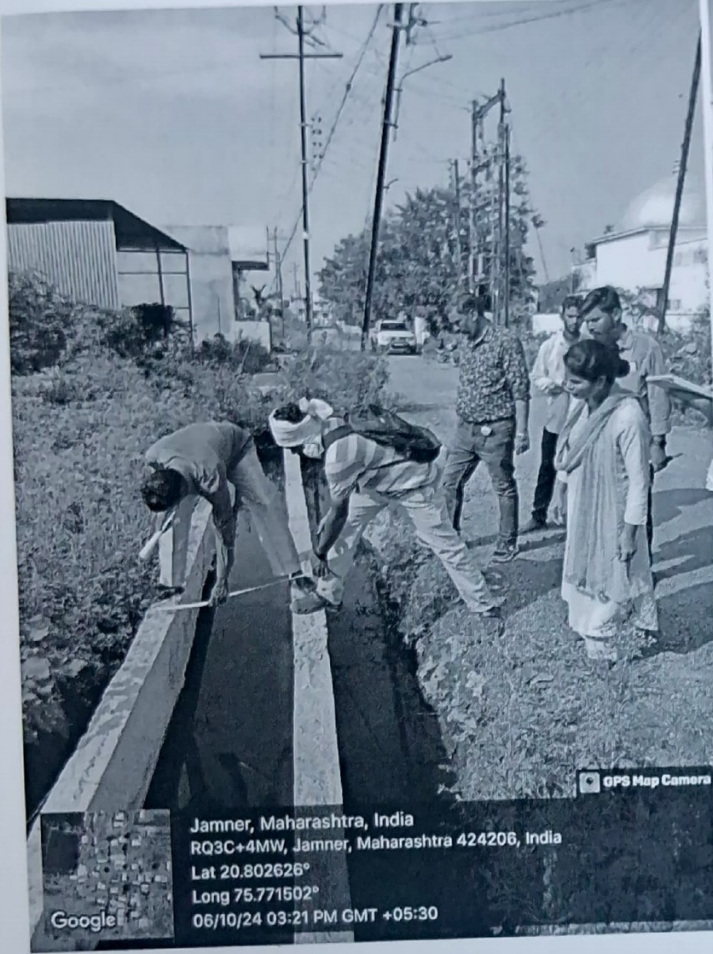
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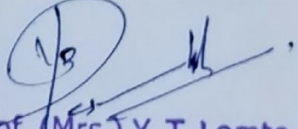
Prof. Y. T. Lomte Patil

Tel- 02025507208

Email-ytl.civil@coeptech.ac.in

Website- www.coeep.org.in



  
Prof. (Mrs.) Y. T. Lomte-Patil  
Assistant Professor  
Civil Engineering Department  
COEP Technological University, Pune-05

नगर परिषद जामनेर हद्दीत नागरोत्थान अंतर्गत रस्ते व नाली कामे ३ रे आणि ४ थे धावते बिल

17



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(Formerly College of Engineering Pune)

Wellesley Road, Shivajinagar, Pune-411005, Maharashtra, India

Prof. Y. T. Lomte Patil

Tel- 02025507208

Email-ytl.civil@coeptech.ac.in

Website- www.coeptech.org.in.

Ref No.: COEP/Civil/YTL/2024/3622  
CW/2024/YTL/

Date: 26/08/2024.

प्रति,  
मा. आयुक्त तथा संचालक,  
नगरपरिषद प्रशासन संचालनालय, वरळी,  
मुंबई- ४०००३०

विषय: जामनेर नगर परिषद अंतर्गत महाराष्ट्र सुवर्ण जयंती नागरोत्थान योजनेतील रस्त्यांची व  
नालीच्या कामांचे) 38 कामे त्रयस्थ (तांत्रिक लेखापरीक्षण करणेबाबत  
संदर्भ :जा. क्र .१२६ /२०२४-२५ नगर परिषद जामनेर , दिनांक १९/०७/२०२४

Sir,

With reference to above letter the third-party technical inspection of "नगर परिषद,  
जामनेर, हद्दीत शासनाच्या महाराष्ट्र सुवर्णजयंती नागरोत्थान (राज्यस्तर) या लेखाशीर्षा अंतर्गत रस्ते विकास  
कामे (पहिले धावते देयक)"

has been carried out. In this regard, the site visit was made on 25<sup>th</sup> August 2024  
along with Mr. Nayan Rathod Engineer from Jamner, and Mr. Rajendra Patil  
representative from the contractor, and the detailed technical inspection  
report is prepared based on the observations and the documents made  
available by the Nagar Parishad. The report is attached herewith for your  
information.

Thanking you,

  
Signature & Seal of Third-Party  
Authority  
Prof. (Mrs.) Y. T. Lomte-Patil  
Assistant Professor  
Civil Engineering Department  
COEP Technological University, Pune-05.

प्रतः  
मा. मुख्याधिकारी, नगरपरिषद, जामनेर यांना माहितीसाठी

जामनेर नगर परिषद अंतर्गत महाराष्ट्र सुवर्ण जयंती नागरोत्थान योजनेतील रस्त्यांची व नालीची  
कामे (पहिले धावते देयक)



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Wellesley Road, Shivajinagar, Pune-411005, Maharashtra, India

Prof. Y. T. Lomte Patil

Tel- 02025507208

Email-ytl.civil@coeptech.ac.in

Website- www.coep.org.in.

Ref No.: COEP/Civil/YTL/2024/3622  
CW/2024/YTL/

Date: 26/08/2024.

प्रति,  
मा. आयुक्त तथा संचालक,  
नगरपरिषद प्रशासन संचालनालय, वरळी,  
मुंबई- ४०००३०

विषय: जामनेर नगर परिषद अंतर्गत महाराष्ट्र सुवर्ण जयंती नागारोत्थान योजनेतील रस्त्यांची व नालीच्या कामांचे) 38 कामे त्रयस्थ (तांत्रिक लेखापरीक्षण करणेबाबत  
संदर्भ : जा. क्र .१२६/२०२४-२५ नगर परिषद जामनेर , दिनांक १९/०७/२०२४

मा. महोदय,  
वरील संदर्भीय विषयानुसार जामनेर नगर परिषद अंतर्गत महाराष्ट्र सुवर्ण जयंती नागारोत्थान योजनेतील रस्त्यांची व नालीच्या कामांचे) ३८ कामे त्रयस्थ (तांत्रिक लेखापरीक्षण (Third Party Technical Audit) चा पहिले धावते देयक अहवाल खालीलप्रमाणे आहे.

(नमुना-तीन)

रस्ते प्रकल्पाच्या त्रयस्थ यंत्रणेमार्फत तांत्रिक तपासणी अहवालाचे प्रपत्र

## TABLE OF CONTENT

Sr. No	Description	Page No.
1	Introduction	3
2	Scope of Work	4
3	Details of Site visit	5
4	Cost of Approved Road Project:	6
5	Work Progress	8
6	Financial Progress	10
7	Material testing reports and its frequency:	12
8	Observation & Findings:	13
9	Site Photographs:	14
10	Conclusion:	14

Prof. (Mrs.) Y. T. Lomte-Patil  
Assistant Professor  
Civil Engineering Department  
COEP Technological University, Pune-05

जामनेर नगर परिषद अंतर्गत महाराष्ट्र सुवर्ण जयंती नागारोत्थान योजनेतील रस्त्यांची व नालीची कामे (पहिले धावते देयक)

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Prof. Y. T. Lomte Patil

Tel- 02025507208

Email-ytl.civil@coeptech.ac.in

Website- www.coep.org.in.

## 1 INTRODUCTION

Following is the brief introduction of the project which include the following information of the 38 road.

A	Name of Project	Construction of Cement Concrete Roads & CC Drains of Road Under Municipal Council Jamner Dist. Jalgaon (Total 38 Works)
B	Location of Project:	Municipal Council Jamner
C	Name of the scheme in which the project Sanctioned	Maharashtra Suvarna Jayant Nagorothan Mahaabhiyan 2023-24
D	Date and amount of administrative approval	शासन निर्णय क्र./ नगरो -२०२३ /प्र.क्र. -४२३ /नवि-३३/ दि. २६-१०-२०२३ ( रु १२१,९१,०९,१९१/- कोटी)
E	Date and amount of technical sanction approval	जा.क्र. का-२ /रस्ते-३/जामनेर न.प./ ता.मा./ ६०५९/२०२३ दि.२३-१०-२०२३ ( रु १२१,९१,०९,१९१/- कोटी )
F	Financial pattern	90% State Govt. 10% Nagar Panchayat Deulgaon raja .
G	Name of Contractor	M/s Sarda Constructions Beed
H	Date of work order and estimate amount	न.पा.जा./साप्र/RR /२०२३ दिनांक २२/१२/२०२३ Rs. १२१,९१,०९,१९१/-
I	Date of start of work	19/01/2024
J	Quoted percentage above or below to the estimated cost	Rs. 121,91,09,191/- L1 (0.01% Below)
K	Time limit	18 Months
L	Defect liability period	10 Year
M	Security deposit details	State Bank of India, Sahayognagar branch, Jamner Deposit No. 8712966235-1 19/12/2023 Amount – 121,99,057/-
N	Name of Project Management consultant/Third Party Auditor	Prof. Mrs. Y. T. Lomte Patil, Assistant Professor of Civil Engineering, COEPTU, Pune
O	Details of various approval from local bodies and other department	नगर परिषद ठराव क्र. ३१/दिनांक १६-०६-२०२३

Prof. (Mrs.) Y. T. Lomte-Patil  
Assistant Professor

Civil Engineering Department  
COEP Technological University, Pune-05

जामनेर नगर परिषद अंतर्गत महाराष्ट्र सुवर्ण जयंती नागरोत्थान योजनेतील रस्त्यांची बांधणी कामे (पहिले धावते देयक)



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A Unitary Public University of Government of Maharashtra  
(Formerly College of Engineering Pune)

Wellesley Road, Shivajinagar, Pune-411005, Maharashtra, India

Prof. Y. T. Lomte Patil

Tel- 02025507208

Email-ytl.civil@coeptech.ac.in

Website- www.coep.org.in.

## 2. SCOPE OF WORK

Details of work carried out by auditor is mentioned in the report.

i	Carrying out site visits during construction/ post construction site (as per Tender Specification).	Site visit during construction is made for Construction of Cement Concrete Road of 1) Old Bodhavad road Majjit to Z.P Urdu school 2) Old Bodhavad road sahara clinic to Bismilla chowk 3) Shivshakti nagar & Talathi colony & Indra nagar 4) ITI & Madhuban colony intenal road  The visit is carried out on 25/08/2024. The work is in progress. The work is in progress.
ii	Conducting consultation with contracting agencies, officers of concerned Municipal Corporation.	Following officials were present at the time of site visit. 1) Prof. Mrs. Y. T. Lomte Patil, Assistant Professor of Civil Engineering, COEPTU, Pune 2) Mr. Nayan Rathod Engineer from Jamner 3) Rajendra Patil, Engineer, Sarda Constructions .
iii	Scrutiny of procedures used for approval of design and drawings.	1. जा.क्र. का-२ /रस्ते-३/जामनेर न.प./ता.मा./६०५९/२०२३ दि.२३-१०-२०२३
iv.	Verification/ Review of Material testing reports as per relevant IS/ IRC/ ASTM/ AASHTO Standards and its frequency.	PWD quality control lab Jalna for all Materials sample reports are available.
v	Verification/ Review of completed work.	At the time of site visit the construction of concrete road was approx. 13.0 % completed  and remaining work was in progress. The verification of completed work is carried out during field visit.
vi	Collection of cores from completed road sections and testing as per relevant codes and any other required test	Core sample is collected in presence of Third-Party Auditor. Thickness of PQC M30 Pavement are actually measured on site and found adequate. Advised to take Core samples for strength measurements. In visit on Date 25/08/2024 thickness of cores taken are actually checked and found adequate.
vii	Analysis of documents including design, drawings, testing reports etc.	Testing reports of the material tested in laboratory were examined, documents of Administrative

Prof. (Mrs.) Y. T. Lomte

Assistant Professor

Civil Engineering Department

COEP Technological University, Pu

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Website- www.coep.org.in.

		Approval and technical sanction is verified, and the sanctioned estimate is checked during the site visit.
viii	Conclusion based on documents available and site visits.	Based on the test results and the site inspection, the construction of completed C.C. Road and RCC drain is acceptable

### 3. DETAILS OF SITE VISIT

*Site visit during construction is made for completed and in progress Cement Concrete Roads from the list below:*

- 1) Construction of cement concrete road from Old Bodhivad road Majjit to Z.P Urdu school
- 2) Construction of cement road from Old Bodhivad road sahara clinic to Bismilla chowk
- 3) Shivshakti nagar & Talathi colony & Indra nagar
- 4) Construction of cement road from ITI & Madhuban colony intenal road

*Following officials were present at the time of site visit.*

1. Prof. Mrs. Y.T. Lomte Patil, Assistant Professor of Civil Engineering, COEPTU, Pune.
2. Mr. Nayan Rathod, Municipal Engineer, Municipal Council Jamner
3. Mr. Rajendra Patil, Engineer, Sarda Constructions.

**The roads are constructed in different parts of JAMNER city. The locations are given below;**

1	<b>Name of Sub- works: -</b> <ol style="list-style-type: none"><li>1) Construction of C.C. Road and Drain from Bajrang pura main road</li><li>2) Construction of cement road from Old Bodhivad road sahara clinic to Bismilla chowk</li><li>3) Construction of C.C. Road from Old Bodhivad road Majjit to Z.P Urdu school</li><li>4) Construction of cement concrete road from Old Bodhivad road Gandhi chowk to majjit road</li><li>5) Construction of cement concrete road Gath No. 729 under</li><li>6) Construction of cement road from Gath No. 438 Samarth Hospital to Ganpati nagar</li><li>7) Construction of cement road from Gath no 438 Main Road</li><li>8) Construction of cement road from Pachora Road to Aashirwad hospital</li><li>9) Construction of cement road from Gath No. 10/2 Eakta nagar Internal Road</li><li>10) Construction of cement road from Gath No. 422 Nearby Rajstani marbal main road</li><li>11) Construction of cement road Front of Baba ji Raghav mangal karyalay</li><li>12) Construction of cement road Prakash nagar Road</li><li>13) Construction of cement road Sagar agency to Mali mangal karyalay main road</li><li>14) Construction of cement road Pachora road to Railway station road</li><li>15) Construction of cement road Gitai nagar to Suyog colony</li><li>16) Construction of cement road Bajrangoura road to Bhaji Mandai road</li><li>17) Construction of cement road Eklavya nagar gharkul area road</li><li>18) Construction of cement road Ghode pir baba gharkul area</li></ol>
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(Mrs.) Y. T. Lomte-Pat  
Assistant Professor  
Civil Engineering Department  
COEP Technological University, Pune-01

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5



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Wellesley Road, Shivajinagar, Pune-411005, Maharashtra, India

Prof. Y. T. Lomte Patil

Tel- 02025507208

Email-ytl.civil@coeptech.ac.in

Website- www.coep.org.in.

19) Construction of cement road Vardhman nagar internal main Road
20) Construction of cement road Ganesh wadi damale plot internal road
21) Construction of cement road Swami Residential internal road
22) Construction of cement road Datta chaitanya nagar internal main road
23) Construction of cement road near by Jain Stank
24) Construction of cement road near chippad garden
25) Construction of cement road Mathai nagar internal main road
26) Construction of cement road Shikshak colony internal road
27) Construction of cement road Shree Krushna nagar internal road
28) Construction of cement road Sonbardi Teakadi main road
29) Construction of cement road Sarsvati nagar to Jalgaon road
30) Construction of cement road Nakoda park internal road
31) Construction of cement road ITI & Madhuban colony intenal road
32) Construction of cement road Dwaraka darshan park & Ganpati nagar internal road
33) Construction of cement road Shiv colony to Adkita bag
34) Construction of cement road Gath No. 724 internal road
35) Construction of cement road Dhanushya Colony & Sainath nagar internal road
36) Construction of cement road Chanddev nagar area colony
37) Construction of cement road Shivshakti nagar & Talathi colony & Indra nagar
38) Construction of cement road Pachora Road Van vibhag office road

4.

#### COST OF APPROVED ROAD PROJECT

The cost of approved road project as per DPR/ tender document along with percentage completion is mentioned in the following table;

#### Recapitulation sheet

Sr. No.	Name/Number of Road Section (As per DPR /Tender Document)	Total Cost	% of Work Completion
1	1) Construction of C.C. Road and Drain from Bajrang pura main road 2) Construction of cement road from Old Bodh vad road sahara clinic to Bismilla chowk 3) Construction of C.C. Road from Old Bodh vad road Majjit to Z.P Urdu school 4) Construction of cement concrete road from Old Bodh vad road Gandhi chowk to majjit road 5) Construction of cement concrete road Gath No. 729 under 6) Construction of cement road from Gath No. 438 Samarth Hospital to Ganpati nagar 7) Construction of cement road from Gath no 438 Main Road 8) Construction of cement road from Pachora Road to Aashirwad hospital	121.97 Cr.	13.0 %

(Mrs.) Y. T. Lomte-Patil  
Assistant Professor  
Civil Engineering Department  
COEP Technological University, Pune-05.

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6



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Wellesley Road, Shivajinagar, Pune-411005, Maharashtra, India

Prof. Y. T. Lomte Patil

Tel- 02025507208

Email-ytl.civil@coeptech.ac.in

Website- www.coep.org.in.

<p>9) Construction of cement road from Gath No. 10/2 Eakta nagar Internal Road</p> <p>10) Construction of cement road from Gath No. 422 Nearby Rajstani marbal main road</p> <p>11) Construction of cement road Front of Baba ji Raghav mangal karyalay</p> <p>12) Construction of cement road Prakash nagar Road</p> <p>13) Construction of cement road Sagar agency to Mali mangal karyalay main road</p> <p>14) Construction of cement road Pachora road to Railway station road</p> <p>15) Construction of cement road Gitai nagar to Suyog colony</p> <p>16) Construction of cement road Bajrangoura road to Bhaji Mandai road</p> <p>17) Construction of cement road Eklavya nagar gharkul area road</p> <p>18) Construction of cement road Ghode pir baba gharkul area</p> <p>19) Construction of cement road Vardhman nagar internal main Road</p> <p>20) Construction of cement road Ganesh wadi damale plot internal road</p> <p>21) Construction of cement road Swami Residential internal road</p> <p>22) Construction of cement road Datta chaitanya nagar internal main road</p> <p>23) Construction of cement road near by Jain Stank</p> <p>24) Construction of cement road near chippad garden</p> <p>25) Construction of cement road Mathai nagar internal main road</p> <p>26) Construction of cement road Shikshak colony internal road</p> <p>27) Construction of cement road Shree Krushna nagar internal road</p> <p>28) Construction of cement road Sonbardi Teakadi main road</p> <p>29) Construction of cement road Sarsvati nagar to Jalgaon road</p> <p>30) Construction of cement road Nakoda park internal road</p> <p>31) Construction of cement road ITI &amp; Madhuban colony internal road</p> <p>32) Construction of cement road Dwaraka darshan park &amp; Ganpati nagar internal road</p> <p>33) Construction of cement road Shiv colony to Adkita bag</p> <p>34) Construction of cement road Gath No. 724 internal road</p> <p>35) Construction of cement road Dhanushya Colony &amp; Sainath nagar internal road</p> <p>36) Construction of cement road Chanddev nagar area colony</p>		
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Prof. (Mrs.) Y. T. Lomte-Patil  
Assistant Professor  
Civil Engineering Department  
COEP Technological University, Pune-05

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7



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Wellesley Road, Shivajinagar, Pune-411005, Maharashtra, India

Prof. Y. T. Lomte Patil

Tel- 02025507208

Email-ytl.civil@coeptech.ac.in

Website- www.coep.org.in.

37) Construction of cement road Shivshakti nagar & Talathi colony & Indra nagar		
38) Construction of cement road Pachora Road Van vibhag office road		

## 5. WORK PROGRESS

Details of physical work progress sub work wise is given below. The sub work wise items are combined for all roads under construction.

### PHYSICAL PROGRESS FORMAT:

Sr. No	Sub Work	Quantity as per Tender	Unit	Quantity Executed till date	Physical Progress in %	Remark
Construction of CC Road						Work in progress
1	Excavation - on Completion of excavation of roadway and transportation of excavated material	23.253	Km.	2.293	9.87%	9.87 % work completed
2	Hard murum- on Completion of Supplying Spreading and Compacting Hard Murum for Blanketing & Side Shoulders below paver block	23.253	Km.	2.293	9.87%	
3	G.S.B - on Completion Construction of Granular Sub Base of 0.20 m thick	23.253	Km.	2.293	9.87%	
4	D.L.C -on Completion Construction of Dry Lean Concrete of 0.10 m	23.253	Km.	2.293	9.87%	
5	M-40 CONCRETE - on Completion of M-40 concrete with 125 mm thick micron LDPE sheet , TMT FE -500 12 mm Tie Bar & 32 mm Dowel Bars	23.253	Km.	2.293	9.87%	

Prof. (Mrs.) Y. T. Lomte-P  
Assistant Professor  
Civil Engineering Department  
COEP Technological University, Pune

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8



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Prof. Y. T. Lomte Patil

Tel- 02025507208

Email-ytl.civil@coeptech.ac.in

Website- www.coep.org.in.

6	Cutting Joints - on Completion of Cutting of Transverse Contraction Joints and Filling with Poly sulphide Sealant	23.253	Km.	2.293	9.87%	
7	Paving Block - on Completion of Heavy Duty Paving Block Of 80 mm Thick	23.253	Km.	1.498	0.34%	

Sr No	Sub Work	Quantity as per Tender	Unit	Quantity Executed till date	Physical Progress in %	
<b>Construction of CC Drain</b>						
1	Excavation - on Completion of excavation of roadway for Drain and transportation of excavated material	46.506	Km.	8.723	18.75%	
2	Soling- on Completion Soling of 80 mm Size of 0.20 m thick	46.506	Km.	8.723	18.75%	
3	M-10 - on Completion M-10 of 0.10 m thick	46.506	Km.	8.723	18.75%	
4	M-20 Concrete Head Wall -on Completion of Construction of M-20 Concrete Head wall including FE -500 Steel	46.506	Km.	8.723	18.75%	
5	M-20 Concrete Approach Slab - on Completion Construction of M-20 Concrete Approach Slab including FE -500 Steel	37.205	Km.	6.978	18.75%	
6	Utility Pipes and inspection Chambers - on Completion of Laying NP-2 Pipes of 600 mm Diameter and Construction of inspection Chamber of 90 cm x 45 cm x 90 cm and concrete cover to inspection chamber	2,460.000	Nos	0	0	Work in Progress
<b>Miscellanies Items</b>						
1	Thermoplastic Road Marking, Cat's Eye and board - on Completion of Providing and	10,000.000	No	0.00	0.00	Yet to start

prof. (Mrs.) Y. T. Lomte-1  
Assistant Professor

Civil Engineering Department  
COEP Technological University, Pune

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Tel- 02025507208

Email-yll.civil@coeptech.ac.in


Website- www.coep.org.in.

	Fixing Thermoplastic Road Marking 2.5 mm thick, Cat's Eye of polycarbonate and ABS moulded and Retro - Reflectorised Board					
1	Royalty Charges	7.460	Cum	0.941	12.61	
2	Testing Charges	28.650	No	3.610	12.60	

Details of financial work progress sub work wise is given below. The sub work wise items are combined for all roads under construction.

## 6. FINANCIAL PROGRESS FORMAT:

Sr. No. In GR	Sub Work	Amount as per Tender	Expenditure till date	Financial Progress	Remark
<b>Construction of CC Road</b>					
1	Excavation - on Completion of excavation of roadway and transportation of excavated material	56,322,845	5554047.00	10 %	
2	Hard murum- on Completion of Supplying Spreading and Compacting Hard Murum for Blanketing & Side Shoulders below paver block	51,324,497	5061155.46	10 %	
3	G.S.B - on Completion Construction of Granular Sub Base of 0.20 m thick	78,876,365	7778072.00	10 %	
4	D.L.C -on Completion Construction of Dry Lean Concrete of 0.10 m	53,031,250	5229461.66	10 %	
5	M-40 CONCRETE - on Completion of M-40 concrete with 125 mm thick micron LDPE sheet , TMT FE -500 12 mm Tie Bar & 32 mm Dowel Bars	391,455,961	38601836.40	10 %	

  
 Prof. (Mrs) Y. T. Lomte-Patil  
 Assistant Professor  
 Civil Engineering Department  
 COEP Technological University, Pune-05.

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10



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6	Cutting Joints - on Completion of Cutting of Transverse Contraction Joints and Filling with Poly sulphide Sealant	22,187,787	2187957.67	10 %	
7	Paving Block - on Completion of Heavy Duty Paving Block Of 80 mm Thick	64,612,787	4162471.63	10 %	
<b>Construction of CC Drain</b>					
1	Excavation - on Completion of excavation of roadway for Drain and transportation of excavated material	21,212,500	3978769.65	19 %	
2	Soling- on Completion Soling of 80 mm Size of 0.20 m thick	16,336,063	3064110.76	19 %	
3	M-10 - on Completion M-10 of 0.10 m thick	30,477,730	5716618.05	19 %	
4	M-20 Concrete Head Wall - on Completion of Construction of M-20 Concrete Head wall including FE -500 Steel	297,584,554	55817098.77	19 %	
5	M-20 Concrete Approach Slab - on Completion Construction of M-20 Concrete Approach Slab including FE -500 Steel	88,141,595	16531523.98	19 %	
6	Utility Pipes and inspection Chambers - on Completion of Laying NP-2 Pipes of 600 mm Diameter and Construction of inspection Chamber of 90 cm x 45 cm x 90 cm and concrete cover to inspection chamber	21,090,589	0.00	0	
<b>Miscellanies Items</b>					
1	Thermoplastic Road Marking, Cat's Eye and board - on Completion of Providing and Fixing Thermoplastic Road Marking 2.5 mm thick, Cat's Eye of polycarbonate and ABS moulded and Retro - Reflectorised Board	7,192,744	0	0	

Prof. (Mrs.) Y. T. Lomte Patil  
Assistant Professor  
Civil Engineering Department  
COEP Technological University, Pune-05.

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11



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Tel- 02025507208

Email-ytl.civil@coeptech.ac.in

Website- www.coeptech.org.in.

1	Royalty Charges	18,286,638	2306665.77	13 %	
2	Testing Charges	975,287	122888.01	13 %	
	<b>Total</b>	<b>121,91,09,191</b>	<b>15,36,83,123</b>	<b>13%</b>	

## 7. MATERIAL TESTING REPORT AND ITS FREQUENCY

The test reports of materials are awaited.

Testing reports of different type of materials used in the construction of different layer thickness will be examined. Material Testing report will be carried out in approved laboratory by the contractor and the third party auditor will examine the test results.

Specimen format for the same shall be as follows;

Sr No	Description of Material	Qty Executed	No. of test Required as per IS/RC/Morth	Actual Test Carried out	Remark
01	GSB	9920	One test for 400 cu.m	25	Testing of GSB Material Required to be tested more frequently.
02	WBM	0.00	One test for 250 cu.m	0	Physical properties of Metal are taken sieves analysis should be taken frequently
03	CC DLC	4960	3 Sample in 1000 m <sup>2</sup> Area	50	Regular FDD Testing done on site at the time of rolling up to achieve required compaction
04	CC M-10	1640.00	As per is 456 Clause 15.2.2, 0-5m <sup>3</sup> - 1 set 5-15m <sup>3</sup> - 2 set 15-30m <sup>3</sup> 3 set	36	Regular cube casting done on site.
05	CC M-20	6396.00	30-50 m <sup>3</sup> 4 set and +1 set for every 50m <sup>3</sup> concrete.	131	Regular cube casting done on site.
06	CC M-30 PQC	9884.00	2 Cubes and 2 beams per 150m <sup>3</sup> or	66	Frequency of testing is adequate

Prof. (Mrs.) Y. T. Lomte-Patil  
Assistant Professor  
Civil Engineering Department  
COEP Technological University, Pune-

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			part there of (One for 7day and other for 28 day strength) or minimum 6 cubes and 6 beams per day's work whichever is more		
07	MURUM	21836.00	2 Test Per 3000 Cum	30	

Results of the material testing are within the permissible limits of relevant I.S. codes.

The details provided by the officials were in line with the requirements.

## 8 OBSERVATION AND FINDINGS

Based on site visits, actual measurements and verification of material testing reports the common observations are as below.

### 1) Construction of C.C. Road from OLD BODHVAD ROAD MAJJIT TO ZP URDU SCHOOL:

- The length of the CC Road as per provision is 700 m. The total length of 505 m is executed.
- The width of road including drain was found to be 9 m and 13 m at two places. The total thickness was found to be 280 mm
- The core is taken in presence of team and send to lab for testing. Thickness of the concrete core is 280 mm.
- The CC drain was measured and is 500 mm (W) x 750 mm (D), and wall thickness 150 mm.

### 2) Construction of CC Road and RCC drain OLD BODHVAD ROAD SAHARA CLINIC TO BISMILLA CHOWKI:

- The width of CC Road executed is 6.5 m – 6.6 m. The thickness was observed to be 280 mm
- The observations are taken at various places along the road. The average width of road was 10.7 m and thickness was 280 mm.
- The CC drain was measured and is average 600 mm (W) x 750 mm (D), and wall thickness 150 mm.

### 3) Construction of CC Road and RCC drain SHIVSHAKTI NAGAR & TALATHI COLONY & INDRA NAGAR:

Prof. (Mrs.) Y. T. Lomte Patil  
Assistant Professor  
Civil Engineering Department  
COEP Technological University, Pune-05.

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13



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Email-ytl.civil@coeptech.ac.in

Website- www.coep.org.in.

- The provisions are GSB = 0.2 m, DLC = 0.10 m, PQC = 0.28 m and CC Drain on both side.
- The observations are taken at different location along the road and width of road was observed to be 15 m.
- The CC drain is measured and the width is 600 mm and depth 750 mm. Thickness of wall is 150 mm.

#### 4) Construction of C.C. Road from ITI & MADHUBAN COLONY INTERNAL ROAD:

- The length of the CC Road as per provision is 2070 m. The total length of 1200 m is executed.
- The width of road including drain was found to be 9 m and 9.2 m at two places. The total thickness was found to be 280mm
- The core is taken in presence of team and send to lab for testing. Thickness of the concrete core is 280 mm.
- The CC drain was measured and is 600 mm (W) x 750 mm (D), and wall thickness 150 mm.

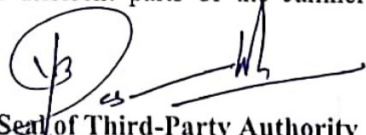
#### 9 SITE PHOTOGRAPHS

Attached

#### 10 CONCLUSION

Based on all above mentioned points the conclusion/ suggestions about quality of work and status of completion of work will be given.

Based on the site visit and inspection, surface finish observations and verifying test results of material, the construction of C.C. Roads and preparations at different parts of the Jamner Municipal Council, till date is acceptable.

  
Signature & Seal of Third-Party Authority  
Prof. (Mrs.) Y. T. Lomte-Patil  
Assistant Professor  
Civil Engineering Department  
COEP Technological University, Pune-05.

**Disclaimer: This report is related to technical aspects of the scheme and is based on the observations, testing (if any) and judgement at the site. Any legal complexities related to scheme are beyond the scope of this report. The Institute will not be responsible for any legal matters arising out of use of this report related to this scheme.**

प्रतः

मा. मुख्याधिकारी, नगरपरिषद, जामनेर यांना माहितीसाठी

Prof. (Mrs.) Y. T. Lomte-Patil  
Assistant Professor  
Civil Engineering Department  
COEP Technological University, Pune-05.

जामनेर नगर परिषद अंतर्गत महाराष्ट्र सुवर्ण जयंती नागारोत्थान योजनेतील रस्त्यांची व नालीची कामे (पहिले धावते देयक)

14



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# COEP Technological University

(COEP Tech)

A Unitary Public University of Government of Maharashtra  
(Formerly College of Engineering Pune)

Wellesley Road, Shivajinagar, Pune-411005, Maharashtra, India

Prof. Y. T. Lomte Patil

Tel- 02025507208

Email-ytl.civil@coeptech.ac.in

Website- www.coeptech.ac.in

## PHOTOGRAPHS



Prof. (Mrs.) Y. T. Lomte Patil  
Assistant Professor  
Civil Engineering Department  
COEP Technological University, Pune-05.

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15



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Website- www.coeop.org.in.



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Civil Engineering Department  
COEP Technological University, Pune-05.

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16



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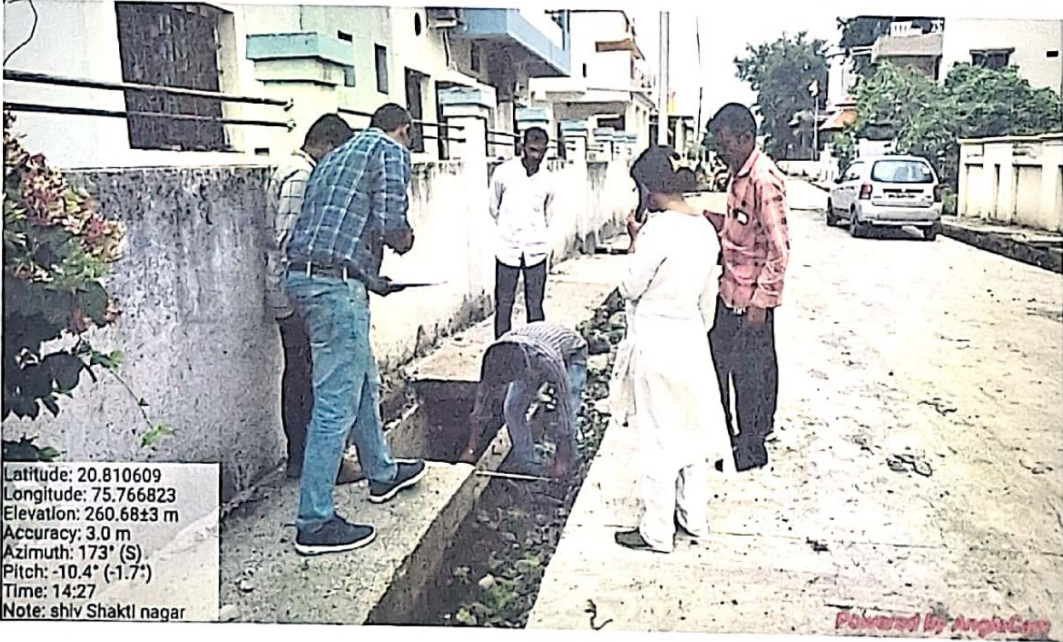
Wellesley Road, Shivajinagar, Pune-411005, Maharashtra, India

Prof. Y. T. Lomte Patil

Tel- 02025507208

Email-ytl.civil@coeptech.ac.in

Website- www.coeop.org.in.



Latitude: 20.810609  
Longitude: 75.766823  
Elevation: 260.68±3 m  
Accuracy: 3.0 m  
Azimuth: 173° (S)  
Pitch: -10.4° (-1.7°)  
Time: 14:27  
Note: shiv Shakti nagar



Latitude: 20.813632  
Longitude: 75.761301  
Elevation: 273.99±1 m  
Accuracy: 3.4 m  
Azimuth: 105° (E)  
Pitch: -8.6° (1.4°)  
Time: 14:55  
Note: pandurang nagar

Prof. (Mrs.) Y. T. Lomte Patil  
Assistant Professor  
Civil Engineering Department  
COEP Technological University, Pune-05.

जामनेर नगर परिषद अंतर्गत महाराष्ट्र सुवर्ण जयंती नागारोत्थान योजनेतील रस्त्यांची व नालीची कामे (पहिले धावते देयक)

17