

GOVERNMENT OF MAHARASHTRA

GOVERNMENT OF MAHARASHTRA

PUBLIC WORKS DEPARTMENT

FORM - P

VOLUME - II

FOR THE WORK OF
FOUR LANING OF CHINCHOTI-KAMAN
ANJURPHATA TO MANKOLI ROAD
M.S.H. NO. 4 KM. 0/000 - 26/425
TALUKA BHIWNADI DIST. THANE

GOVERNMENT OF MAHARASHTRA

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Name of Work :- Four Laning of Chinchoti-Kaman Anjurphata to Mankoli
Road M.S.H. No. 4 Km. 0/000 - 26/425 Taluka Bhiwnadi
Dist. Thane.

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Engineer in Charge

GOVERNMENT OF MAHARASHTRA

Section - I
Issue Of Bid Documents



Concessionaire

Bh
Engineer in Charge

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SECTION-I

ISSUE OF BID DOCUMENTS IN 3 SETS

Issued to Shri/ M/s. Bharat Udyog Limited
with reference to his/their application dated
25.10.2007 cost of bid document Rs. 40,000/- (Rupees
Fourty Thousand Only) received vide money receipt No. 0264441
dated 25.10.2007.

(Volume 1 to 4)
5 books
(Set-2)


Divisional Account officer

Thane (P.W.) Division
Thane.

DETAILS OF WORKS

Name of Work :- Four Laning of Chinchoti-Kaman Anjurphata to
Mankoli Road M.S.H. No. 4 Km. 0/000 - 26/425 Taluka
Bhiwnadi Dist, Thane.




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Section - II
Notice Inviting Bid



Engineer in Charge



NOTICE INVITING BID

Bid Notice in Short :-

Sr. No.	Name of work	Estimated cost of the project in Rupees	Bid Security in Rupees	Performance Security at the time of acceptance of bid in Rupees.	Cost of bid form (not refundable)	Period of Construction	Last date of issue of blank bid documents	Last date and time of receipt of bids
I.	Four Laning of Chinchoti-Kaman Anjurphata to Mankoli Road M.S.H. No. 4 Km. 0/000 - 26/425 Taluka Bhiwnadi Dist. Thane.	95.95 crores	20.00 Lakhs	190.00 lakhs	40,000/-	30 Calendar Months	30-10-2007	upto 14.00hrs. on 8/11/2007

Sale of Blank Bid Documents Dt. 15/09/2007 to 30/10/2007.
Validity of offer 180 Days

Pre bid conference will be held at the office of Chief Engineer P.W. Region Mumbai
On 20/10/2007 at 16.00 Hours.

Concessionaire

6 ²³ - Engineer in Charge

20/10/2007
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NOTICE INVITING BID

CORRIGENDUM NO.1

Bid Notice in Short :-

Sr. No.	Name of work	Estimated cost of the project in Rupees	Bid Security in Rupees	Performance Security at the time of acceptance of bid in Rupees.	Cost of bid form(not refundable)	Period of Construction	Last date of issue of blank bid documents	Last date and time of receipt of bids
I.	Four Laning of Chinchoti-Kaman Anjurphata to Mankoli Road M.S.H. No. 4 Km. 0/000 - 26/425 Taluka Bhiwnadi Dist. Thane.	95.96 crores	20.00 Lakhs	190.00 lakhs	40,000/-	30 Calendar Months	19-11-2007	upto 14.00hrs. on 29/11/2007

Sale of Blank Bid Documents Dt.01/10/2007 to 19/11/2007.

Validity of offer 180 Days

Pre bid conference will be held at the office of Chief Engineer P.W. Region Mumbai
On 26/10/2007 at 16.00 Hours.



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Section – III
Invitation For Bids (IFB)



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SECTION-III

Public Works Department

INVITATION FOR BIDS (IFB)

Sealed offers in the, prescribed form are invited by the government from the eligible bidders for the execution of the project on build operate and transfer (B.O.T.) basis (as defined in these documents and referred to as "the works") as per IFB. The works are detailed in Section-IV of this volume.

1. Name of Project : Four Laning of Chinchoti-Kaman Anjurphata to Mankoli -Road M.S.H. No. 4 Km. 0/000 - 26/425 Taluka Bhiwnadi Dist. Thane.
2. Cost of Project as estimated by the department : Rs. 9596.00 Lakhs
3. Time limit for completion of work : 30 Calendar Months
4. Bid Security : Rs.20.00 Lakhs.
5. Bid Validity : 180 days from the date of opening of bid.
6. Sale of Blank Bid Form : From 01/10/2007 to 19/11/2007 on all working days at Office of the Executive Engineer, (P.W.) Division, Thane.
7. Cost of Blank Form : Rs. 40,000/- (For 3 Sets)
8. Submission of completed Bid : Upto 14.00 hours on 29/11/2007 at Thane in the office of the Superintending Engineer, Thane (P.W.) Circle, Thane. Tel. No. 022-25363241
9. Pre-bid Conference : On 26/10/2007 at 16.00 hours in the office of Chief Engineer P.W. Region, Merzban Rd., Fort Mumbai Tel. No.022-22071594



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Consent
Agreement

Section - IV

Scope Of Work



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SECTION-IV

PROJECT

1. Introduction :-

Chinchoti - Kaman - Anjurphata-Mankoli Junction road M.S.H.No.4 Km. No.0/000 to 26/425 is part length of Zai - bordi - Revas - Reddi - Satarde coastal highway. It starts at Chinchoti on Mumbai - Ahamadabad road (N.H.No.8) and ends at Mankoli Junction on Thane-Bhiwandi-Bypass (NH-3). It is important road connecting N.H.8 and N.H.3. It carries heavy traffic plying from N.H.8.

2. Existing Road :-

In section - I (Km.0/00 to 22/600) the width of existing road is 7.00 mt with black topped surface and formation width is 12.00 mt. There are 72 H.P. Drains, 8 Nos slab drains, 4 Numbers minor bridges, 3 Nos major bridges, existing on this road In section-II (Km.22/600 to Km.26/425) there are 17 Nos. H.P. drains, 2 Nos of Slab Drains.

This section I (Km.0/00 to 22/600) of this road is under B.O.T. from Year 2000 built and operated by M/S. Ideal Road Builders Pvt. Ltd.

3. Importance of the Road :-

This important road is part length of coastal highway Zai - Boardi - Nava - Sheva - Revas - Reddi - Satarde road, M.S.H.No.4.

4. Traffic Intensity :-

As per Dec.-2006 traffic census, the traffic intensity on following traffic counts posts are as below.

1) Chinchoti - 30303 P.C.U. (3) Anjurphata 52019 P.C.U.

2) Narpoli - 43972 P.C.U. (4) Mankoli Junction 47173 P.C.U. This is for guidance only. The concessionaire should carry his own traffic survey. No claim on this account will be entertained.

5. Scope

The B.O.T. project consists of Widening to 4 lane of Chinchoti - Kaman - Anjurphata - Mankoli Road M.S.H.4 in Km No.0/000 to 26/425 in Taluka Bhiwandi. The project is proposed to be executed in two phases. Concessionaires are requested to submit the proposals on B.O.T. basis on their own design for the following works.



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The camber shall be provided 2.50 % for B.T. surfaces. The quantities required for super elevation, camber, grade corrections shall be provided by the concessionaire and should assess the quantity required for the grade correction conforming to I.R.C. specifications. Bidder shall make his own assessment for quantities required for longitudinal and cross profile. No any extra additional payment will be made nor any claim will be entertained on this ground that there has been variation in the quantities.

- i) **Bituminous Macadam :-** Hot Mix Hot Laid, Bituminous Macadam 75 mm thick compacted with minimum 3.3 % bitumen (of 60/70 grade bitumen) with required tack coat laying with sensor paver and compaction with vibratory roller.
- ii) **Dense Bituminous Macadam :-** Hot Mix Hot Laid, Dense Bituminous Macadam, 50 mm thick compacted with minimum 4.5 % bitumen (of 30/40 grade bitumen) with required tack coat laying with sensor paver and compaction with vibratory roller. The job mix shall be got approved from Engineer-in-charge.
- iii) **Bituminous Concrete :-** Hot Mix Hot Laid, Bituminous concrete, 40 mm thick compacted with minimum 5.5 % bitumen (of 30/40 grade bitumen) with required tack coat laying with sensor paver and compaction with vibratory roller. The job mix shall be got approved from Engineer-in-charge.
- iv) **Side shoulders:-** 1.50 meter width compacted with hard murum. 5% camber to be provided for the side shoulders.
- v) **Median Verge :-** The median verge comprises of 2 kerb stones as shown in drawing on page No 50 of volume IV. Top width of kerb stones 175 mm, bottom width 225 mm, in M-20 grade concrete. 225 mm above Road Top Level shall be suitably fixed. The space between 2 Kerb shall be filled with 15 cm M-15 grade concrete at bottom and remaining space with Granular Sub-Base. The top surface of median verge shall be sealed by providing chequered



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Statement of C.D. Works				
Sr. No.	Chainage	Existing Dia of Pipe	Proposed Dia of pipe	No. of Rows
1	0/300	900 mm dia	900 mm dia	1
2	1/250	900 mm dia	900 mm dia	1
3	2/490	900 mm dia	900 mm dia	2
4	2/550	900 mm dia	900 mm dia	4
5	2/800	900 mm dia	900 mm dia	1
6	2/8150	900 mm dia	900 mm dia	1
7	2/900	900 mm dia	900 mm dia	1
8	3/050	900 mm dia	900 mm dia	1
9	3/280	900 mm dia	900 mm dia	1
10	3/604	750 mm dia	750 mm dia	1
11	3/795	900 mm dia	900 mm dia	1
12	3/860	750 mm dia	750 mm dia	1
		900 mm dia	900 mm dia	1
13	4/170	900 mm dia	900 mm dia	1
14	4/330	900 mm dia	900 mm dia	1
15	5/450	750 mm dia	750 mm dia	1
16	6/900	750 mm dia	750 mm dia	1
17	7/030	750 mm dia	750 mm dia	1
18	7/390	750 mm dia	750 mm dia	1
19	7/580	1200 mm dia	1200 mm dia	2
20	8/100	750 mm dia	750 mm dia	1
21	8/500	750 mm dia	750 mm dia	1
22	8/610	900 mm dia	900 mm dia	2
23	8/630	750 mm dia	750 mm dia	1
24	8/760	900 mm dia	900 mm dia	1
25	9/375	750 mm dia	750 mm dia	1
26	9/450	900 mm dia	900 mm dia	1
27	9/570	750 mm dia	750 mm dia	1
28	9/900	900 mm dia	900 mm dia	3
29	10/100	750 mm dia	750 mm dia	1
30	10/200	750 mm dia	750 mm dia	1
31	10/480	750 mm dia	750 mm dia	1
		900 mm dia	900 mm dia	1
32	10/620	900 mm dia	900 mm dia	1
33	10/675	750 mm dia	750 mm dia	1
34	11/200	900 mm dia	900 mm dia	1
35	11/350	750 mm dia	750 mm dia	1
36	11/620	900 mm dia	900 mm dia	1
37	11/730	900 mm dia	900 mm dia	1
38	12/050	900 mm dia	900 mm dia	1
39	12/100	900 mm dia	900 mm dia	1
40	12/620	900 mm dia	900 mm dia	4
41	12/941	900 mm dia	900 mm dia	1

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The required cushioning shall be provided above the pipes otherwise the pipes shall be embedded in concrete M-15 grade at top.

- viii) **Widening of slab drains :-** There are total 8 Nos. existing slab drains at locations as below. All existing drains are proposed to be widened to 21.00 metres. The typical drawings are attached on Page No.10 to 17 of Annexure-I of Volume-IV. The working drawing shall be got approved from Engineer-in-charge. The height given in drawings is only indicative, no extra payment shall be made nor any claim will be entertained for variation in sections.

Statement of Slab Drains				
Sr. No.	Chainage	Length Meter	Existing Width	Proposed Width
1	3/350	2.75	13.30 Meter	21.00 meters
2	8/320	6.00	12.60 Meter	21.00 meters
3	8/420	6.00	13.10 Meter	21.00 meters
4	8/990 2 x 4.50	9.00	13.30 Meter	21.00 meters
5	10/450	6.00	13.00 Meter	21.00 meters
6	13/650	9.70	13.90 Meter	21.00 meters
7	15/840	6.70	13.10 Meter	21.00 meters
8	18/150	6.00	13.20 Meter	21.00 meters

The measurements of abutments and piers shall be adopted as per type design drawing. The abutment and piers shall rest on approved hard foundation. The P.C.C. M-10 grade 15 cm thick shall be provided for foundation concrete. The grade of concrete shall be C.C. M-20 for abutments and piers and R.C.C. M-30 for slabs, caps, kerbs.

- ix) **Widening of Minor Bridges :-** There are total 4 Nos existing minor bridges at locations as below. All existing minor bridges are to be widened upto 21.00 metres. The typical drawings are attached on Page No.18 to 21 of Annexure-I of Volume-IV. The work drawings shall be got approved from Engineer-in-charge. The height given



Engineer-in-Charge

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- xi) **Construction of New Kharbav Creek Bridge At Ch.17/400 :-** New bridge adjacent to existing bridge is to be constructed. The width of bridge shall be 8.50 metres. The bridge shall be designed as per design criteria given in Schedule 'K' of Volume-I. Supplementary data is provided.

B) Section II Km.22/600 to 26/425 Anjur Phata - Mankoli Junction Total length = 3.825 Km.

Replacement of existing 7.00 metre carriageway with 10.50 metre C.C. pavement. Typical cross section drawing is attached in Page No.74 to 78 of Volume -IV. The existing B.T. surface shall be removed. The Sub-Base shall be widened as shown in drawing. The measurements shown in cross section drawing are only indicative. The provisions for Sub-Base widening shall be i) 95 % P.D. Earthwork. ii) Top 50 centimeter layer with 100 % P.D. Earthwork. For width of 10.50 metre carriageway following minimum crust shall be given.

- i) **Granular Sub-Base :-** One layer of 150 mm, compacted thickness with mechanical mixing and spreading with motor grader and compaction with vibratory roller.
- ii) **Wet Mix Macadam :-** 75 mm compacted thick with mechanical mixing, laying with paver finisher and compaction with vibratory roller.
- iii) **Dry Lean Concrete :-** P.C.C. M-10 for 150 mm thick shall be provided as per approved design mix, using batching plant of appropriate capacity, transporting and laying with self propelled paver with electronic sensor device and compacting with vibratory roller of minimum 80-100 Kn. static weight to give desired compacted density providing construction joints.
- iv) **Pavement Quality Concrete :-** P.C.C. M-40 grade 350 mm thick shall be provided as per approved design mix including 125 micron thick impermeable plastic sheet membrane over the surface to be covered using minimum cement content 400 kg per cubic metre of concrete with approved admixtures transporting mix with transit mixers and laying with self propelled slip form paving train of required capacity, having electronic



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- vi) **Widening of slab drains :-** There are total 2 Nos. existing slab drains at locations as below. Both the existing slab drains are proposed to be widened to 18.00 metres in Phase-I. The typical drawings attached on Page No.27 to 28 of Annexure-I of Volume-IV. The working drawing shall be got approved from Engineer-in-charge. The height given in drawings is only indicative, no extra payment shall be made nor any claim will be entertained for variation in sections.

Statement of Slab Drains.				
Sr. No.	Chainage	Length in Mtr.	Existing Width	Proposed Width
1	24/012	6.00 Metre.	7.00 Metre.	18.00 Meters
2	25/950	5.00 Metre.	12.00 Metre.	18.00 Meters

The measurements of abutments and piers shall be adopted as per type design drawing. The abutment and piers shall rest on approved hard foundation. The P.C.C. M-10 grade 15 cm thick shall be provided for foundation concrete. The grade of concrete shall be C.C. M-20 for abutments and piers and R.C.C. M-30 for slabs, caps, kerbs.

- vii) **Construction of Toll Plaza :-** Existing Toll Plaza at Ch.13/600 near Malodi village shall be demolished. The Concessionaire shall construct New Toll Plaza as per model Toll Plaza booklet published by P.W.D. Govt. of Maharashtra at Ch.13/600. Reference drawings are provided on Page No.37 to 73 of Volume-IV. The concessionaire shall make necessary arrangements for electrification of Toll Plaza, Water supply, sanitary facility, Telephone lines and Computerization at his own cost.
- viii) **Shifting of Electric Poles :-** Shifting of electrical poles along with supply lines transformers etc. for both the section (1) Chinchoti - Anjurphata Km.0/000 to 22/600 (about 369 Poles) and in Section(2) Anjurphata - Mankoli Km.22/600 to 26/425 (about 115 Poles) is to be done. The



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11) Kalwar Village at Ch.20/00

12) Narpoli Village at Ch.21/200

13) Anjurphata Junction at Ch.22/600 (Ending of Section-I.)

The type drawings provided in Annexure-I Volume-IV are indicative. However the concessionaire shall survey the all junction locations and asses the quantities required for improvement.

- xi) **Road Furniture :-** The concessionaire shall carryout road furniture works as below. Lane marking shall be done as per relevant I.R.C. code for entire length. The median verge shall be painted with Yellow / Black alternate strip with enamel paint. The 200 mtr. stones, Km.stones, Boundary stones, shall be provided for entire length as per I.R.C. standard. The following types of Retroreflective Boards shall be provided as per I.R.C. standard with minimum numbers as below.

Section-I Km.0/00 to 22/600

a) Road information Board. = 30 Numbers.

b) Junction Boards. = 26 Numbers.

c) Cautionary Boards / = 184 Numbers.

Mandatory sign Boards.

d) Route Marker Board. = 05 Numbers.

In addition as per requirement boards may be provided by the concessionaire. The metal crash barrier about 1500 metres in length shall be provided where the height of embankment is more than 2.50 metre as per relevant I.R.C.code. The typical drawing is attached in Page No.84 of Volume-IV. Gantries shall be erected at Ch.0/00 and 22/600 as per drawing at Page 29 in Annexure-I of Volume-IV.

- xii) **Land Acquisition :-** For Section-II Km.22/600 to 26/425 length 3.825 Km Land acquisition is necessary for 4 laning project. The land acquisition procedure is in progress with Land Acquisition officer, District Collector Office at Thane. Section-4 notice have been issued. The compensation amount for paying land owners is to be deposited



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Engineer in Charge

GOVERNMENT OF MAHARASHTRA

Phase-II

In Phase-II the balance work of section-II Km.22/600 to 26/425 (Anjurphata - Mankoli Junction) is considered.

- 1) Widening of 10.50 meter C.C. pavement to 4 lane C.C. pavement i.e. 15.00 meter carriageway is to be done. Typical drawing is attached on Page no. 74 to 78 of Volume- IV.

The Sub-Base shall be widened as shown in drawing. The measurements shown in cross section drawing are only indicative. The provisions for Sub-Base widening shall be same as in Phase-I. i) 95 % P.D. Earthwork. ii) Top 50 centimeter layer with 100 % P.D. Earthwork. For width of 15.00 metre carriageway from 10.50 metres following treatment shall be given.

- i) **Granular Sub-Base :-** One layer of 150 mm, compacted thickness with mechanical mixing and spreading with motor grader and compaction with vibratory roller.
- ii) **Wet Mix Macadam :-** 75 mm compacted thick with mechanical mixing, laying with paver finisher and compaction with vibratory roller.
- iii) **Dry Lean Concrete :-** P.C.C. M-10 for 150 mm thick shall be provided as per approved design mix, using batching plant of appropriate capacity, transporting and laying with self propelled paver with electronic sensor device and compacting with vibratory roller of minimum 80-100 Kn. static weight to give desired compacted density providing construction joints.
- iv) **Pavement Quality Concrete :-** P.C.C. M-40 grade 350 mm thick shall be provided as per approved design mix including 125 micron thick impermeable plastic sheet membrane over the surface to be covered using minimum cement content 400 kg per cubic metre of concrete with approved admixtures transporting mix with transit mixers and laying with self propelled slip form paving train of required capacity, having electronic sensor device. Providing and fixing dowels tie-bars, approved precompressed seals for



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a) Road information Board. = 10 Numbers.

b) Junction Boards. = 6 Numbers.

c) Cautionary Boards /

Mandatory sign Boards. = 16 Numbers.

d) Route Marker Boards. = 02 Numbers.

In addition as per requirement boards may be provided by the concessionaire. Gantries shall be erected at Ch.0/00 and 22/600 as per drawing at Page 29 in Annexure-I of Volume-IV.

ix) **Side shoulders with Cement Concrete interlocking blocks.** :- The Concessionaire shall have to provide cement concrete heavy duty 80 mm thick interlocking blocks for side shoulders as per typical drawings. For sub-base following minimum provisions are to be made.

a) 150 mm thick compacted oversize metal layer.

b) 75 mm thick compacted size metal layer.

c) 150 mm thick dry lean concrete.

d) 65 mm thick stone dust.

The work shall be carried out as per relevant I.R.C. code

x) **Junction Improvements** :- The Concessionaire shall improve the junction location as below.

1) Anjurphata Junction at Ch.22/600 (starting of section-II.)

2) Mankoli Junction at Ch.26/425.

The type drawings provided in Volume-IV are indicative, however the concessionaire shall survey all the junction locations and assess the quantities required for improvement.

MAINTENANCE & RENEWAL :- The concessionaire shall maintain the project viz routine maintenance and periodic maintenance throughout the concession period and extension thereof if any. The concessionaire have to carry out renewal work after every six years and before handing over the road to Government with following provisions:-



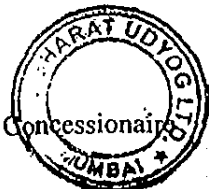
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GOVERNMENT OF MAHARASHTRA

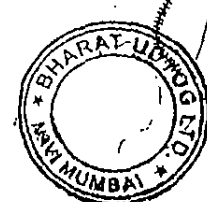
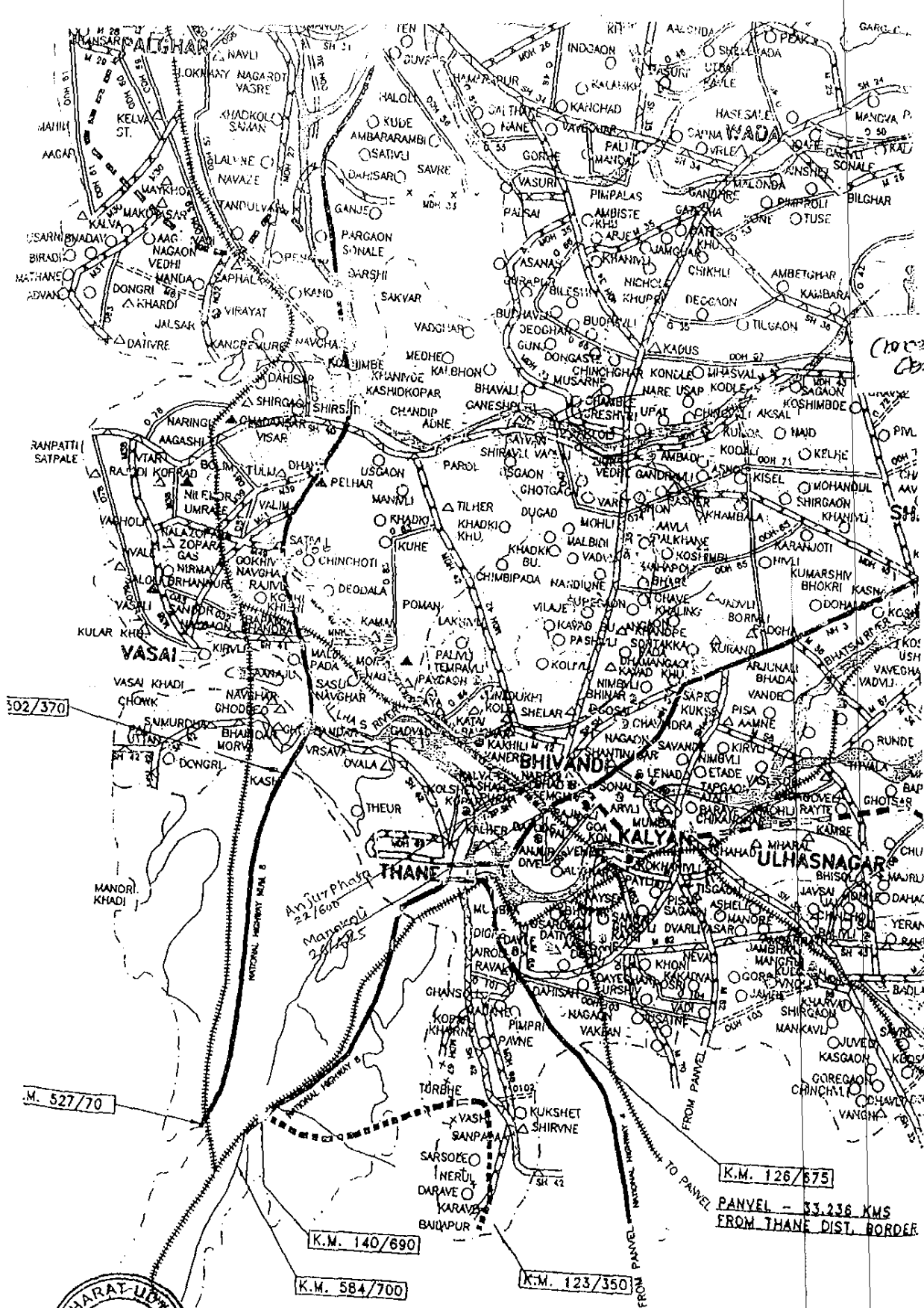
cabinet etc. & with facilities as below. The site office shall be the property of the Government.

Sr.No.	Description of facilities	Quantity	Remark
1	A) Computer Pentium 4 with LCD Projector license copies of softwares required for documentation of project management	2 Nos.	To be handed over to Department after completion of project.
	B) Lap Top Pentium 4 & LCD Projector with licence copies of softwares required for documentation of project management	1 Nos.	To be handed over to Department after completion of project.
2	H.P. Laser Computer Printer (A4 size)	1 Nos.	To be handed over to Department after completion of project.
3	Cell phone facility	5 Nos.	During construction period limiting charges Rs. 1000/- per month per cell phone.
4	Landline telephone facility	1 Nos.	During construction period limiting charges Rs. 2000/- per month.
5	Inspection vehicle – New Scorpio jeep / Toyota Innova / Tavera	1 Nos.	To be handed over to Department within one month after issue of work order. The inspection vehicle shall be property of Government. During the construction period of this project the cost of vehicle maintenance limited to 3000 km per month shall be borne by the Concessionaire along with cost of fuel and driver and maintainance charges.

The Concessionaire shall maintain all above facilities in good condition and pay all necessary charges including the driver's salary, diesel and petrol, maintenance and repairs, monthly electric, telephone, cell phone bills, stationary for all the services provided during the construction period. All the above facilities shall be provided within one month from issue of work order. Site office & quarters shall be maintained by the Concessionaire during construction period. Site office and all amenities



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Section - V
Bidding Data



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SECTION- V

BIDDING DATA

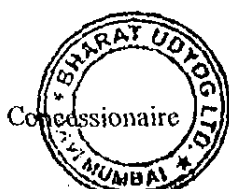
1.0 SCOPE OF BID (ITB) :

1.1 Scaled offers in the prescribed form are invited by the government from the eligible bidders for the execution of project on build, operate and transfer basis (as defined in these documents and referred to as "the works") as per IFB. The works are detailed in section -IV of this Volume.

3.2 ADDITIONAL DOCUMENT IN ENVELOPE-I.

3.2.1 The bidder shall also submit the following documents in envelope-I.

- i) Report on the financial standing of the bidder, such as profit and loss account statements and auditor's reports signed by Chartered Accountant for the last five years.
- ii) Evidence of adequacy of working capital for this contract (access to lines of credit and availability of other financial resources.)
- iii) Authority to seek references from the bidders bankers.
- iv) Justification of the bidder for their capability of completing the work as per milestone specified within the stipulated period of completion with the following documents.
 - Proposed Work Plan.
 - Methodology of construction including traffic diversion and management on existing roads.
 - Equipment, Planning and Development with broad calculation.
 - Quality control procedure.



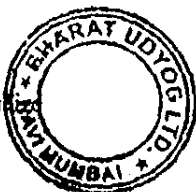
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bidding document can be used for submission of bid in the name of joint venture provided the bidder purchasing documents is a "Lead Firm".

Experience and resources of joint venture partners as per work distribution as proposed in joint venture, agreement shall be taken into account in determining the bidder's compliance with the qualifying criteria. The liquidation of joint venture during the contract period shall not be allowed.

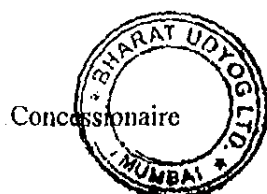
Concession



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Concession
Amount

Section - VI
Contract Data



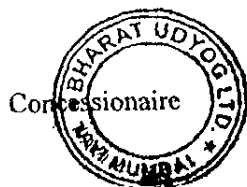
13/12/21
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SECTION- VI

CONTRACT DATA

Sr. No.	Article No./ Clause No. (of Volume I)		
1.	1.0	: The Employer is Government of Maharashtra	
2.	1.0	: Government is Government of Maharashtra	
3.	1.0	: Chief Engineer is	Chief Engineer.
		Address	: Mumbai (P.W.) Region 25, Merzban Road, Fort, Mumbai - 400001
		Telephone No.	: 022-22071594
		Fax No.	: 022-22074700
		E-mail ID	: cemun@mahapwd.com
4.	1.0	: Superintending Engineer is	Superintending Engineer
		Address	: Thane P.W. Circle, Station Rd. Thane Pin - 400601
		Telephone No.	: 022-25363241
		Fax No.	: 022-25361127
		E-mail ID	: sethn@mahapwd.com
5.	1.0	: Executive Engineer is	Executive Engineer
		Address	: Thane (P.W.) Division, Station Rd, Thane Pin - 400601
		Telephone No.	: 022-25369293
		Fax No.	: 022-25377240
		E-mail ID	: ceethn@mahapwd.com
6.	1.0	: Engineer in Charge is Ex.Engineer Thane (P.W.) Dn, Thane	
7.	1.0	: Project Cost	Rs.95.96 Crores.
8.	3.1 (a)	: Performance Security for construction	Rs.190.00 lakhs
9.	3.1(b)	: Performance Security for operation and maintenance	Rs.60.00 lakhs
10.	8.2(g)	: Date by which As Built Drawings must be submitted	90 Days after the issue of the completion of the section of the work as the case may be.



[Signature]
Engineer in Charge

GOVERNMENT OF MAHARASHTRA

Section - VII

Design Data for River Bridge / Creek Bridge



GOVERNMENT OF MAHARASHTRA

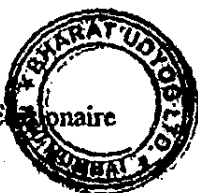
Section- VI

ANNEXURE-1

SUPPLEMENTARY DATA : (FOR KHARNAV CREEK BRIDGE AT
CH.17/400).

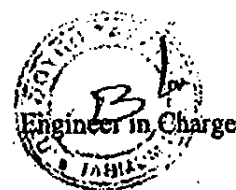
1.0	OBLIGATORY PROVISIONS:	
(i)	Length of Bridge as measured between inner faces of dirt wali	97.00 meters
(ii)	Soffit R.L. shall not be lower than	71.210
(iii)	Clear Carriage way width	7.50 meters.
(iv)	Footpath width	No footpath
(v)	Overall width of Bridge (between outer edges of deck slab)	8.25 meters
(vi)	Vertical clearance for Navigational spans above H.T.L./ H.F.L.	Not required.
(vii)	Horizontal clearance for Navigational spans.	- do -
(viii)	Clear linear waterway (Minimum required) Clear linear water way is the length of water way between the inner face of abutment @ HFL for high level and O.F.L. for submersible bridge after deducting widths of piers at H.F.L. and O.F.L. respectively.	94.20 meters.
(ix)	Design speed	80 Km/hr
2.0	HYDRAULICS DATA :	
(i)	L.W.L. R.L.	64.710
(ii)	O.F.L. R.L.	71.150
(iii)	H.F.L. (Design) R.L.	70.160
(iv)	Maximum Mean Compartmental velocity at Design H.F.L.	--- M/Sec.
(v)	Catchment area	24.00Sq km
(vi)	Calculated afflux at Design H.F.L.	---

Conc. Sonaire



GOVERNMENT OF MAHARASHTRA

(vii)	Scour level R.L. Pier Abutment	
(viii)	Additional data for Coastal area	
	(a) L.T.L. R.L.	64.710
	(b) H.T.L. R.L.	66.460
3.0	DESIGN LOADS:	
3.1	Footpath Loads :	No Footpaths
3.2	Service Loads :	No service Lines.
3.3	Temperature effects :	Moderate (20° C to 43° C)
3.4	Barge Impact :	
	Navigational Piers	200 T
	Other Piers	100 T
3.5	Seismic Force.	
	Seismic Zone	III
	Importance Factor	1.00
4.0	EXPOSURE :	Severe
5.0	(1) For High Level Bridge with footpath : Sanchi Type Railing/ Barrier.	
	(2) For high level Bridge without footpath - Crash Barrier..	
	(3) For Submersible Bridge : Angle Iron Posts & GI Pipe Railing	
6.0	Type of Anticorrosive Treatment to be provided to reinforcing bars :	FBEC
7.0	Expansion Joints (Max.)	3 Nos.
8.0	Wearing coat	25 mm thick mastic asphalt



GOVERNMENT OF MAHARASHTRA

Section- VII

ANNEXURE-1

SUPPLEMENTARY DATA : (FOR KHARNAV CREEK BRIDGE AT
CH.17/400).

1.0 OBLIGATORY PROVISIONS:

(i)	Length of Bridge as measured between inner faces of dike wall	97.00 meters
(ii)	Soffit R.L. shall not be lower than	71.210
(iii)	Clear Carriage way width	7.50 meters.
(iv)	Footpath width	No footpath
(v)	Overall width of Bridge (between outer edges of deck slab)	8.25 meters
(vi)	Vertical clearance for Navigational spans above H.T.L./H.F.L.	Not required.
(vii)	Horizontal clearance for Navigational spans.	- do -
(viii)	Clear linear waterway (Minimum required) Clear linear water way is the length of water way between the inner face of abutment @ HFL for high level and O.F.L. for submersible bridge after deducting widths of piers at H.F.L. and O.F.L. respectively.	94.20 meters.

(ix)	Design speed	80 Km/hr
------	--------------	----------

2.0 HYDRAULICS DATA :

(i)	L.W.L. R.L.	64.710
(ii)	O.F.L. R.L.	71.150
(iii)	H.F.L. (Design) R.L.	70.160
(iv)	Maximum Mean Compartmental velocity at Design H.F.L.	--- M/Sec.
(v)	Catchment area	24.00Sq km
(vi)	Calculated afflux at Design H.F.L.	---

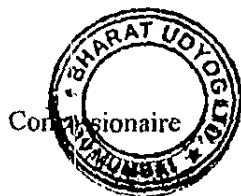
Conc. onaire



Engineer-in Charge

GOVERNMENT OF MAHARASHTRA

Section – VIII
Equipment for Field Laboratory





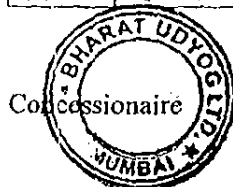
GOVERNMENT OF MAHARASHTRA

SECTION- VIII

EQUIPMENTS FOR FIELD LABORATORY

The following minimum items of laboratory equipment shall be provided in the field laboratory to be established by the Concessionaire for required Test as per Article 9.3 and schedule-M of Volume I

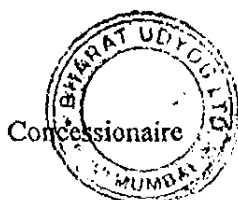
1	General	
(i)	Oven -- Electrically operated, Thermostatically controller, range upto 2000 C sensitivity 10 C.	1 No.
(ii)	Platform balance 300 kg. Capacity.	1 No.
(iii)	Balance 20 kg. Capacity.	1 No.
(iv)	Electronic Balance 5 kg. Capacity accuracy 0.5 g.	2 Nos.
(v)	Water bath-electrically operated and Thermostatically controlled with adjustable shelves, sensitivity 10 C.	1 No.
(vi)	Thermometers: Mercury-in-glass thermometer range 00 C to 2500 C. Mercury-in-steel thermometer with 30 cm Stein, range up to 3000 C.	4 Nos.
(vii)	Kerosene or gas stove or electric hot plate	1 No.
(viii)	Glass-wares, spatulas, wire gauges, Steel scales, measuring tape, casseroles, Karahis, enameled trays of assorted sizes, pestle-mortar, porcelain dishes, gunny bags, plastic bags, chemicals, digging tools like pickaxes, shovels etc.	As required
(ix)	Set of IS sieves with lid and pan: 350 mm diameter: 63 mm, 53 mm, 37.5 mm, 26.5 mm, 13.2 mm, 9.5 mm, 6.7 mm and 4.75 mm size. 200 mm diameter: 2.36 mm, 2.0 mm, 1.18 m, 600 micron, 425 micron, 300 micron, 150 micron and 75 micron.	1 Set
(x)	Water testing kit	1 Set
2.	For Soils and Aggregates	
(i)	Riffle Box	1 No
(ii)	Atterberg Limits (liquid and plastic limits) Determination apparatus	1 Set
(iii)	Compaction Test equipment both 2.5 and 4.5 kg. Rammers (light and heavy compactive efforts)	1 Set
(iv)	Dry Bulk Density Test apparatus (sand pouring cylinder, tray, can etc.) complete.	1 Set
(v)	Speedy Moisture Metre complete with chemicals	1 Set



Engineer in Charge

GOVERNMENT OF MAHARASHTRA

(vi)	Post-hole Auger with Extensions	1 Set
(vii)	Core cutter apparatus 10 cm dia 10/15 cm height, complete with dolly, rammer etc.	1 Set
(viii)	Aggregate Impact Value Test Apparatus/Los Angeles Abrasion Test Apparatus	1 Set
(ix)	Flakiness and Elongation Test Gauges	1 Set
(x)	Standard measures of 30, 15 and 3 liters capacity along with standard tamping rod	1 Set
(xi)	California Bearing Ration Test Apparatus	1 Set
(xii)	Unconfined Compression Test Apparatus	1 Set
3.	For Bitumen and Bitumen Mixes	
(i)	Penetrometer with standard needle	1 Set
(ii)	Riffle Box - Small Size	1 Set
(iii)	Centrifuge type bitumen extractor, hand operated, complete with petrol / commercial benzene.	1 Set
(iv)	Marshal stability test apparatus, complete with all accessories.	1 Set
(v)	Field density bottle along with cutting tray, Chisel, hammer and standard sand.	
(vi)	3 m straight edge	1 No
(vii)	Camber board	1 Set
(viii)	Core cutting machine with 10 cm. dia. diamond cutting edge.	1 Set
(ix)	Vacuum pump and 2 specific gravity bottles	1 Set
4.	For Cement and Cement Concrete	1 Set
(i)	Vicat apparatus for testing setting times	1 Set
(ii)	Slump testing apparatus	4 Set
(iii)	Compression and Flexural strength testing machine of 200 tone capacity with additional dial for flexural testing	1 Set
(iv)	Needle Vibrator	2 Set
(v)	Air Meter	1 Set
(vi)	Vibrating hammer for vibrating dry mix as for Dry Lean Cement Concrete sub-base	1 Set
(vii)	Cube moulds for cement and concrete tests	18 Nos. of each
(viii)	Sieve shaker to accommodate 450 dia. and 200 dia. sieves	1 No.



GOVERNMENT OF MAHARASHTRA

Section -IX
Technical Specifications

13



GOVERNMENT OF MAHARASHTRA

SECTION- IX

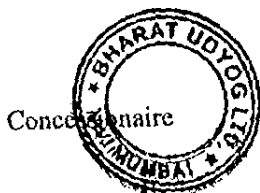
WORK SPECIFIC TECHNICAL SPECIFICATIONS

Anticorrosive treatment to concrete & Reinforcement For 3 Major Bridges at Ch.4/600 (Kaman Bridge), at Ch.10/050 (Paye Bridge) at Ch.17/400 (Kharbav Creek Bridge).

Entire structure shall be given anticorrosive protective paint as approved by the Engineer-In-Charge. This shall be got tested from the approved laboratory and shall be of approved quality, colour and shade.

The protective coating shall consists of:

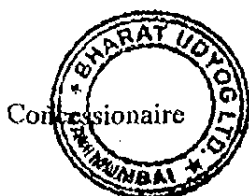
- a) Over M.S. liner to piles : One Coat of zinc rich epoxy primer and two coat of coal tar epoxy (total dry film thickness $50 + 80 + 80 = 210$ Micron) to outside surface.
- b) Part of substructure in contact with earth & up to H.T.L. / H.F.L. from foundation one coat of primer & two coat of coal tar epoxy.
- c) Anticorrosive treatment to reinforcing steel shall be of fusion bonded epoxy coating (F.B.E.C.) type. Specification shall be as per IS - 13620 - 1994. The anchorage / bond length in case of F.B.E.C. Bars shall be increased by 50% of normal values specified in IRC Code.



13/1
Engineer in Charge

GOVERNMENT OF MAHARASHTRA

Section -X
Toll Rates
Concessions and Exemptions



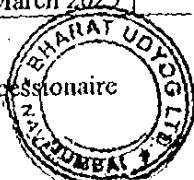
GOVERNMENT OF MAHARASHTRA

SECTION- X

The Toll Rates which will be applicable to this project will be as follows :

YEAR	Six seater Auto Rickshaw (Tum Tum), Motor Car, Jeep (having carriage capacity upto twelve passengers excluding driver) such as Tata Sumo, Trax, Commander, etc.;	Mini Bus (having carriage capacity of more than twelve and upto twenty passengers, excluding driver) and vehicles carrying goods except those mentioned in entries at column No.4 & 5	Trucks, Buses.	Heavy Motor Vehicles as defined in the Motor Vehicles Act, 1988 (59 of 1988) such as Trucks, Multi-Axle vehicles, etc., except vehicles covered by the entries at column number 4.
1	2	3	4	5
	Total Rate	Total Rate	Total Rate	Total Rate
1 July, 1998 To 30 June 2001	12.00	18.00	35.00	60.00
1 July, 2001 To 31 March 2004	15.00	25.00	45.00	75.00
1 April, 2004 To 31 March 2007	20.00	25.00	55.00	90.00
1 April, 2007 To 31 March 2010	20.00	30.00	65.00	110.00
1 April, 2010 To 31 March 2013	25.00	40.00	75.00	130.00
1 April, 2013 To 31 March 2016	30.00	45.00	90.00	155.00
1 April, 2016 To 31 March 2019	35.00	55.00	105.00	180.00
1 April, 2019 To 31 March 2022	45.00	65.00	125.00	215.00
1 April, 2022 To 31 March 2025	50.00	75.00	150.00	260.00

Concessionaire



Engineer in Charge

GOVERNMENT OF MAHARASHTRA

Note - (1) Concession are as below :-

- (a) 10 per cent. rebate will be given to the purchaser of a booklet containing 50 coupons in advance.
- (b) 20 per cent. rebate will be given to the purchaser of a booklet containing 100 coupons in advance.
- (c) Passes for frequently traveling vehicles -
 - i) Return and daily pass will be 1.5 times and 2.5 times of one side toll respectively. The pass will be valid upto 12.00 hours midnight of the day on which the pass is drawn.
 - ii) Monthly pass will be 50 times of one side toll.
- (2) Toll shall be levied at the toll stations as prescribed in the tender document.
- (3) The following types of motor vehicles are exempted from payment of toll, namely:-
 - 1. VVIP vehicles carrying President of India, Vice-President of India, Governor of State, Public Representatives entitled for red lamp on vehicle.
 - 2. Central and State Government Vehicles.
 - 3. Police Vehicles.
 - 4. Defence Vehicles.
 - 5. Vehicles of Posts and Telegraphs Department.
 - 6. Ambulances.
 - 7. Hearses.
 - 8. Fire Fighting Vehicles.
 - 9. Vehicles in which sitting members of Parliament, Maharashtra Legislative Assembly and Maharashtra Legislative Council are travelling.

Cont.
Page 12



GOVERNMENT OF MAHARASHTRA

Section - XI

Safety Standards



13

GOVERNMENT OF MAHARASHTRA

SECTION- XI

SAFETY STANDARDS

(Refer Schedule-P of volume-I)



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GOVERNMENT OF MAHARASHTRA

Section - XII

MAINTENANCE STANDARDS



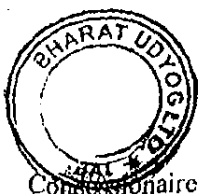
Engineer in Charge

GOVERNMENT OF MAHARASHTRA

SECTION- XII

MAINTENANCE STANDARDS

(Refer Schedule-X of volume-I)



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Engineer in Charge

GOVERNMENT OF MAHARASHTRA

Section – XIII

Memorandum of Understanding

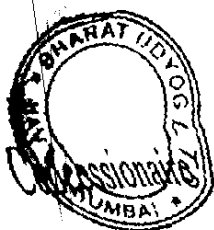


GOVERNMENT OF MAHARASHTRA

SECTION- XIII

MEMORANDUM OF UNDERSTANDING

(Refer Schedule-U of volume-I)



Engineer in Charge

GOVERNMENT OF MAHARASHTRA

Section - XIV

Declaration of Bidder



GOVERNMENT OF MAHARASHTRA

SECTION- XIV

(Refer Schedule-V of volume-I)

DECLARATION OF THE BIDDER

I / We hereby declare that I / We have made myself / ourselves thoroughly conversant with the local conditions regarding all materials and labour of which I / We have based on my / our rates for this bid. The Specification and leads on this work have been carefully studied and understood before submitting this bid. I / We undertake to use only the best materials approved by Engineer or his duly authorized representative during execution of the work and to abide by the decision.

SIGNATURE OF BIDDER



13/2
Engineer in Charge

GOVERNMENT OF MAHARASHTRA

Section – XV

Amendments to Provisions in Volume -I



SECTION- XV

The Amendments to Volume - I

1. Clause 3.2, Clause 3.3 on page no.9 of Section-I of Volume-I. is deleted.
2. Clause 8.1, on page no.10 of Section-I of Volume-I.

A prebid conference open to all prospective bidders will be held at the time and place as per IFB in Volume-II wherein the prospective bidders will have an opportunity to obtain clarifications regarding the bid conditions and the work. The prospective bidders are free to ask any additional information or clarification, either in writing or orally and reply to the same will be given in writing by the Employer. The copies of the question raised and the replies given will be furnished to all those attending the meeting (and subsequently to all purchasers of bid documents). Any modifications of bid documents, which may become necessary as a result of prebid conference shall be through issuance of an addendum pursuant to Clause 9 of ITB of these instructions.

3. Clause 15.2, on page no.12 of Section-I of Volume-I.

Bid security shall be in the form of Demand Draft, Government Treasury/ Sub treasury Chalan or Term Deposit Receipt valid for a period of 12 (twelve) months from the date of submission of tender, and drawn on any branch situated in Maharashtra of any Nationalised or Scheduled bank pledged in favour of the Engineer in Charge. The said amount of bid security shall not carry any interest whatsoever. The bid security in any other form other than described above shall not be accepted. (Amount of Bid Security shall be as per IFB in Volume II)

4. Clause 17.3.1 (d) to 17.3.1 (o) on page no.14 of Section-I of Volume-I is deleted.

5. Clause 21.1 on page no.16 of Section-I of Volume-I. is modified as under.

1. Chief Engineer, Mumbai P.W.Region, : Chairman
Mumbai
2. Superintending Engineer, P.W.Circle, Thane : Member
3. Superintending Engineer, P.W.Circle, Mumbai : Member
4. Superintending Engineer, Vigilance & Quality : Member
Control Circle, Navi Mumbai
5. Executive Engineer, Thane P.W.Division, : Member Secretary
Thane
6. Chartered Accountant : Member



Engineer in Charge



10. Article 6, Supervision Consultant on page no.52 of Section II of Volume I is Deleted. The Supervision will be done by P.W.D. Staff.
11. Clause 10.4 of Article-19 on page no.64, 65 & 66 of Section-II of Volume-I, is deleted.
12. Article-11, Supervision Charges on page no.67 of Section-II of Volume-I, is deleted.
13. Clause 13.2 (b) (ii) of Article 13, Change of Scope on page no.70 of Section II, Volume I is modified as under.

For the changed scope, the Concessionaire shall carryout such items of work at the rate of prevalent DSR. If there are no rates available in the DSR then the concessionaire shall provide the analysis of rates for carrying out the items which are not covered by the D.S.R. The supervising Engineer will scrutinise and approve the rates. The decision of the superintending Engineer shall be final and binding on the concessionaire.
14. Clause 13.2 (c) of Article 13, Change of Scope on page no.70 of Section II, Volume I is modified as under.

The Engineer-in-charge shall review the information provided by the Concessionaire, assess quantities of items of work, verify the analysis of rates if required, determine the additional cost to the Concessionaire as a result of such Change of Scope, add such additional cost to Initial Investment in the Cashflow Projections and determine the extension, if any, to the Concession Period in order to maintain the Internal Rate of Return. Provided, that the projections for years beyond the Concession Period shall be average of three years immediately preceding the last year of the original Cashflow Projections.
15. Forms for "Submission of Bid" of Schedule B on page 105 and 106 of Section-III of Volume-I is modified and attached in Volume-III page-6.
16. Form-I of Schedule-E on page no.107 of Section-III of Volume-I is deleted and Form-2 on page 108 (Details of the Total Project cost) is modified and attached in Volume III
17. The duties of supervision consultant given in Schedule-I of page no.123 of Section-III of Volume-I will be performed by the Engineer-in-charge.

The Concessionaire shall take suitable corrective measures for rectification of road profile, camber and superelevation. The condition of the pavement shall be judged and rated as per the serviceability scale in the AASHO Road Test. The acceptance rating as judged by the Engineer shall not fall below '4'.

If the pavement, wearing surface, any part of structures like bridges, C.D. works, ancillary structures, protective works, embankments, retaining walls, gutters, drainage system, road furniture or appurtenances and fixtures, etc. show deterioration such as to require strengthening or renewal the same shall be done by the Concessionaire at his own cost. At the time of handing over the facility back to the Government at the end of the concession period, the same serviceability criteria shall apply and must renewal/ strengthening shall have to be carried out by the Concessionaire at his own cost, of 40 mm thick Bituminous concrete as given in Volume II in view of roughness index not more than 2000 mm per k.m.

22. Schedule W, Details of experience and performance of joints venture / consortium on page no.233 to 246 of Section-III of Volume-I are Deleted and Averments and Authorisation -Proforma 12 on page no.247 is to be read as Averments and Authorisation -Proforma
23. Additional condition "F" is included in maintenance requirements (Clause 3.0 A) Schedule-X of Section-III of Volume-I on page no.252 is as below :

If the concessionaire fails to maintain the road in traffic worthy condition as per instructions above the repair work will be got done at risk and cost of the concessionaire and the expenditure so incurred will be recovered by encashing the performance security. It will be obligatory on the part of the concessionaire to recupe the amount so adjusted through the performance guarantee within 15 days from the receipt of the notice

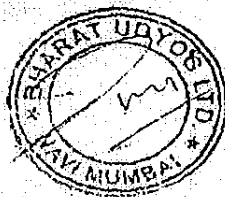


13/12
Engineer in Charge

FORM - 2

Details of The Total Project Cost

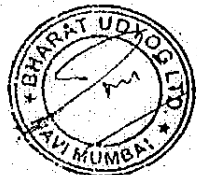
Items	Estimated Cost	
	In Figure	In Word
Bride Details of cost of construction.		
Earth Work:	42831760	Rs. Four crores twenty eight lakhs thirty one thousand seven hundred fifty only
Granular Sub Base - 500 mm thick	99573760	Rs. Six crores ninety five lakhs seventy three thousand seven hundred fifty only
Best Mix Macadam - 150mm thick	42033047	Rs. Four crores twenty lakhs thirty three thousand fourty seven only
Hot Mix Hot Laid Bituminous Macadam - 75 mm thick compacted with 3.3% bitumen content (30 / 70 grade)	205095000	Rs. Twenty crores fifty lakhs ninety five thousand only
Hot Mix Hot Laid Bituminous Macadam - 50 mm thick compacted with 4.5% bitumen content (30 / 70 grade)	101700000	Rs. Ten crores seventeen lakhs only
Bitumen concrete 40mm thick compacted with 5% bitumen content (30 / 40 grade)	101700000	Rs. Ten crores seventeen lakhs only
Construction of C.C. Pavement	174993750	Rs. Seventeen crores forty nine lakhs ninety three thousand seven hundred fifty only
Construction of median verge - 22.630 Km	44310000	Rs. Four crores forty three lakhs ten thousand only
Widening of H. P. Drains - 89 Nos.	20560000	Rs. Two crores five lakhs sixty thousand only
Construction of Slab Drains - 10 Nos.	14130000	Rs. One crore forty one lakhs thirty thousand only
Construction of Minor Bridges - 4 Nos.	11800000	Rs. One crore eighteen lakhs only
Widening of Major Bridges - 2 Nos.	9200000	Rs. Ninety two lakhs only
Construction of New Kharav Creek Bridge	18700000	Rs. One crore eighty seven lakhs only
Road Furnitures		
For All types of Boards	2209500	Rs. Twenty two lakhs nine thousand five hundred only
For Thermoplastic Pavement Marking	5549250	Rs. Fifty five lakhs fourty nine thousand two hundred fifty only
For 200 mt stone, Km Stone, Boundary Stones etc.	1600000	Rs. Fifteen lakhs only
For Erection of Ganties.	2000900	Rs. Twenty lakhs only
For Metal Crash Barriers	2500000	Rs. Twenty five lakhs only
TOTAL	870386047	Rs. Eighty seven crores three lakhs eighty six thousand fourty seven only



FORM - 2

Details of The Total Project Cost

Cost of Ancillary Works:		
Measurement / Line Layout	1500000	Rs. Fifteen lakhs only
Administrative & Supervision Charges	3245000	Rs. Thirty two lakhs forty five thousand only
Preliminary & Pre-operation Expenses	2200000	Rs. Twenty two lakhs only
Cost of construction of Toll Plaza	23816875	Rs. Two crores thirty eight lakhs sixteen thousand eight hundred seventy five only
Project specific preliminary expenses		
a) Land acquisition and Encroachment removal - rehabilitation	60720000	Rs. Five crores seven lakhs twenty thousand only
b) Shifting of Water Supply Pipe Lines	3408000	Rs. Thirty four lakhs six thousand only
Shifting of Electric Poles with service Line	16812000	Rs. One crore sixty six lakhs twelve thousand only
c) Tree transplantation	4550000	Rs. Forty five lakhs fifty thousand only
d) Any other expenses, location improvement	6200000	Rs. Sixty two lakhs only
Cost of paver in M-20	22900000	Rs. Two crores twenty nine lakhs only
Unlocked paver block	14336654	Rs. One crore fourty three lakhs thirty six thousand six hundred fifty four only
Consultant for Supervision	15000000	Rs. One crore forty lakhs only
Salaries	2543500	Rs. Twenty five lakhs fourty three thousand five hundred only
TOTAL	167030029	Rs. Sixteen crores seventy lakhs thirty thousand twenty nine only
Amount to be paid to existing Entrepreneur	117755000	Rupees One Thousand One Hundred Seventy Seven Lakhs & Fifty Five Thousand Only
Cost of any other items if required to complete this work in all respect, concessionaire shall quote the cost.	50000000	Rs. Five Crores Only
Total Project Cost A + B + C + D	1205171078	Rs. One hundred twenty crores fifty one lakhs seventy one thousand seventy six only.



The Project Cost quoted

D B 120.517 cr

H. J. 5012 0112

19.12.07

GMB MW

FORM - 3

Financial Details of the Proposal

Name of Work :- Four Laning of Chinchoti - Kaman Anjurphata to Mankoli
Road M.S.H. No. 4 Km 0/000 - 25/425 Taluka - Bhiwandi
Dist - Thane

1	Total estimated Project cost of Work	Rs.	1205171076
	(in figure and in words) (As per Form 2)		Rs. One hundred twenty crores fifty one lakhs seventy one thousand seventy six only.
2	a) Assumed Rate of Interest on Debt.	13%	✓
	b) Rate of Interest on Equity (If any)	13%	✓
3	Estimated construction Period	30 month	✓
4	Estimated Yearly Maintenance Cost	as per cash flow	
5	Concession period offered by the Concessionaire (in figure and in words)	25 YEAR 8 MONTH	✓
6	Estimated cost of Management and overheads, etc., at specified intervals.	as per cash flow	✓
7	Estimated cost of Renewals and special Repairs, etc., at specified intervals.	as per cash flow	
8	Assumed Debt / Equity Ratio.	75:25	
9	Any other Details.		

Name of Project :- Four Lanning of Chinchoti - Kaman Anjurphata to Mankoli road M.S.H.No.4 Km. 0/00 - 26/425 Taluka Bhiwandi Dist Thane

Statement Showing Estimated Yearly Toll Collection
1.05 For 1st to 5thTRAFFIC GROWTH 5% year
4% 1.04 For 6th to 10th year
3% 1.03 For 11th onwards

No of Year	Years		Toll Rate in Rs.				Traffic Per Day				Toll Income / Day				Total Toll Income / year	Deduction for frequent Travellers etc.	Net Toll income
	From	To	Car	LCV	Truck Bus	Trailer	Car	LCV	Truck Bus	Trailer	Car	LCV	Truck Bus	Trailer			
0	01.04.07	31.03.08	20	30	65	110	1279	2195	1929	832	25530	65850	125385	91520	112542275	18006764	94535511
1	01.04.08	31.03.09	20	30	65	110	1343	2305	2025	874	26859	69143	131654	96096	118169389	12907102	99262287
2	01.04.09	31.03.10	20	30	65	110	1410	2420	2127	917	28202	72600	138237	100501	124077858	19852457	104225401
3	01.04.10	31.03.11	25	40	75	130	1481	2541	2233	963	37015	101639	167479	125209	157440068	25190411	132249657
4	01.04.11	31.03.12	25	40	75	130	1555	2668	2345	1011	38866	106721	175853	131469	165312071	26449931	138862140
5	01.04.12	31.03.13	25	40	75	130	1632	2801	2462	1062	40809	112058	184646	136043	173577675	27724223	145805247
6	01.04.13	31.03.14	30	45	90	155	1698	2913	2560	1104	50930	131107	230438	171173	213931576	34055052	178946524
7	01.04.14	31.03.15	30	45	90	155	1766	3030	2663	1149	52967	136352	239656	178020	221552839	35448454	186104385
8	01.04.15	31.03.16	30	45	90	155	1836	3151	2769	1194	55086	141806	249242	185141	230414952	36863352	193548560
9	01.04.16	31.03.17	35	55	105	180	1910	3277	2880	1242	66837	180251	302414	223002	282182520	45149251	237033569
10	01.04.17	31.03.18	35	55	105	180	1986	3408	2995	1292	69511	187461	314510	232346	293470133	46955221	246514312
11	01.04.18	31.03.19	35	55	105	180	2046	3511	3085	1331	71596	193085	323945	239522	302274237	48363878	253910359
12	01.04.19	31.03.20	45	65	125	215	2107	3616	3178	1371	94814	235037	397219	294679	372938119	59670099	313268020
13	01.04.20	31.03.21	45	65	125	215	2170	3724	3273	1412	97658	242088	409135	303520	384126282	61460202	322666060
14	01.04.21	31.03.22	45	65	125	215	2235	3836	3371	1454	100588	249350	421410	312625	395650050	63504008	332246042
15	01.04.22	31.03.23	50	75	130	260	2302	3951	3472	1498	115117	296343	520862	389400	482428746	77188589	405240147
16	01.04.23	31.03.24	50	75	150	260	2371	4070	3577	1543	118571	305234	536488	401082	496901608	79504257	417397351
17	01.04.24	31.03.25	50	75	150	260	2443	4192	3684	1589	122128	314391	552583	413115	511209556	81889585	429919271
18	01.04.25	31.03.26	60	90	180	310	2516	4318	3794	1637	150950	388587	682992	507336	631400804	101024129	530376675
19	01.04.26	31.03.27	60	90	180	310	2591	4447	3908	1686	155478	400244	703432	522556	650342828	104054852	546287976
20	01.04.27	31.03.28	60	90	180	310	2669	4581	4025	1736	160143	412252	724586	538233	669853113	107176498	562676615
21	01.04.28	31.03.29	70	110	210	370	2749	4718	4146	1788	192438	518979	870711	661380	818989975	131038350	687951579
22	01.04.29	31.03.30	70	110	210	370	2832	4860	4271	1842	198211	534548	896833	681530	843559675	134969546	708590127
23	01.04.30	31.03.31	70	110	210	370	2917	5005	4399	1897	204158	550585	923738	701976	868866465	139018634	729847831
24	01.04.31	31.03.32	90	130	250	440	3004	5155	4531	1954	270363	670212	1132678	859826	1070573309	171291805	899282000
25	01.04.32	31.03.33	90	130	250	440	3094	5310	4667	2013	278474	690318	1166659	885620	1102691024	176430534	926260460
26	01.04.33	31.03.34	90	130	250	440	3187	5469	4807	2073	286828	711028	1201658	912189	1135771754	181723481	954048273
															12823948781		10777156979

Project Cost 1295171076 Rate of Interest 13%
 Cost of Repair & Maintinances 7051373 Inflation Rate 5%

Toll Collection Charges				5139500															
Sr. No.	From	To	Yrs/Month	Project Cost	Maintn. Cost	Inflation Factor	Current Project Cost	Current Maintn. Cost	Other Exp. If any	Toll Collection Charge	Total Current Expenditure	Net Toll Income	QFS Amt.	Total QFS Amount	Interest on Borrowing	Rate of Interest	Net Income	IRR	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	01.04.08	31.03.09	1	565000000	7500000	1.05	593250000	7875000		601125000			601125000	640196137	39073125	13	-601125000	#N/A!	
2	01.04.09	31.03.10	2	590090438	2500000	1.1	617469632.9	2750250		620227663			620227663	136991294	22540243.6	13	-620227662.9	#N/A!	
3	01.04.10	31.03.11	3	65050201	7051373	1.16	98456238.93	8162848	5945562	112564847	132409637	-19785010.1	154291691	118635437	13	19685009.78	#N/A!		
4	01.04.11	31.03.12	4		7051373	1.22		8570968	6242640	14813628	136862140	-124046312	1611378737	92515377.9	13	124046312.1	#N/A!		
5	01.04.12	31.03.13	5		7051373	1.28		8999537	6554982	15554519	145805247	-192250727.2	1682140699	201012939.5	13	130250727.6	#N/A!		
6	01.04.13	31.03.14	6		7051373	1.34		9446514	6862751	16332245	178946524	-162614278	1727835088	208108396.3	13	162614278.3	#N/A!		
7	01.04.14	31.03.15	7		7051373	1.41		9921990	7228668	17149856	186104385	-168655527.2	1772290039	213610453.4	13	168655527.9	#N/A!		
8	01.04.15	31.03.16	8		7051373	1.48		10418089	7588211	18003301	19354590	-175542280	1815735203	218767452.8	13	175542280.5	9.10%		
9	01.04.16	31.03.17	9		88140000	1.55		136734059	7987622	144701601	237033569	-6231878.42	1953441327	230044002.7	13	92331878.1	6.50%		
10	01.04.17	31.03.18	10		7051373	1.63		11485944	8399003	19651946	246514912	-229962968	1965919420	235215058.2	13	229962968.9	-1.82%		
11	01.04.18	31.03.19	11		7051373	1.71		12060241	8784303	20844544	257910359	-233065815.2	1973384250	240420645	13	233065815.2	1.40%		
12	01.04.19	31.03.20	12		7051373	1.8		12663253	9223518	21696771	27326520	-291581248	1919580571	23751598.7	13	291581248.7	2.21%		
13	01.04.20	31.03.21	13		7051373	1.89		13296415	9684684	22961109	322867060	-29984656.6	1849661570	239065950.6	13	299846595.2	6.25%		
14	01.04.21	31.03.22	14		7051373	1.98		13961236	10168929	24150165	332346042	-308215677	1782206664	239430870.5	13	308215871.7	7.81%		
15	01.04.22	31.03.23	15		7051373	2.08		14659296	10677575	25336673	405246147	-379903473.7	1586966329	204380138.9	13	379903473.8	9.21%		
16	01.04.23	31.03.24	16		88140000	2.18		192398580	11211244	203609810	417397351	-213787541	1583583119	19374331	13	213787541.2	9.85%		
17	01.04.24	31.03.25	17		7051373	2.29		16161678	11771806	27933662	419914271	-471985589.3	1340655270	17357740.6	13	471985589.4	10.75%		
18	01.04.25	31.03.26	18		7051373	2.41		16996970	12360396	29330366	5303796.75	-501046309	961329134.3	141717173.5	13	501046309	11.67%		
19	01.04.26	31.03.27	19		7051373	2.53		17818468	12978416	30796865	548267976	-519491197.5	55990516.2	94065475	13	519491092.1	12.37%		
20	01.04.27	31.03.28	20		7051373	2.65		18709392	13627337	32336729	942670615	-530330660	67875605.45	38714673.2	13	530339866	12.94%		
21	01.04.28	31.03.29	21		7051373	2.79		19544661	14306704	33655565	67851579	-653998014	-586122409		13	653998014.4	13.48%		
22	01.04.29	31.03.30	22		7051373	2.93		20627104	15024139	35851244	704590127	-672938683	-1259081262		13	672938683.0	13.92%		
23	01.04.30	31.03.31	23		88140000	3.07		270724104	15775348	286499450	729647831	-443346381	-1702409670		13	443346380.9	14.36%		
24	01.04.31	31.03.32	24		7051373	3.23		22741383	16584113	38305496	896262070	-899776504	-7562383177		13	899776504.3	14.57%		
25	01.04.32	31.03.33	24.3		88140000	3.39		296473324	7248800	305720124	365941858	-80221734	-1101089035		13	80221734.15	14.55%		
				1210110639	496536087		1309172872	1175263720		236181940	2720838351	898478905		201454682155	3570373840				

LETTER OF ACCEPTANCE

BY R.P.A.D./Hand Delivery

No -TD/Tender/ 5220
Office of the Executive Engineer,
Thane (P.W.) Division, Thane.
Date -30.06.2008.

To,

✓ M/s Bharat Udyog Limited, Plot No.69,
2nd floor, Sector-19A Dana Bunder Road,
A.P.M.C. Vashi, Navi Mumbai 400 705.

**Subject - Construction, operation and maintenance and handing over of
Four Lining of Chinchoti-Kuman Anjurghata to Mankoli Road
M.S.H. No. 4 Km. 0/000 - 26/425 Taluka Bhiwandi Dist. Thane**

Reference - Your bid Dated 29.11.2007.

Dear Sir,

This is notify that your bid dated 29.11.2007 for construction and handing over to Government above mentioned subject work in accordance with the instruction to Bidders is hereby accepted

You are hereby requested to furnish performance security, for an amount equivalent to Rs. 190.00 Lakhs (Rupees One Hundred Ninety Lakhs only) within 15 days of the receipt of this letter and valid upto 28 days from the date of expiry of Defect Liability Period i.e. upto 27 years 3 months 28 days and sign the contract, failing which action as stated in Para 30.3 of ITB will be taken.

Yours Faithfully,



**Executive Engineer,
Thane (P.W.) Division, Thane.**

Copy submitted to Chief Engineer, Mumbai (P.W.) Region, Mumbai for favour of information please.

Copy submitted to Superintending Engineer, Thane (P.W.) Circle, Thane for favour of information please.

...2... BQ # 09620021208

WHEREAS:

- A. By the letter of acceptance dated 30/6/2008 entered into between the GOM and M/s Bharat Udyog Limited, a company incorporated under the Companies Act, 1956 having its registered office at "Dhananjay Chambers", Plot No. 69, Sector - 19/A, Dana Bunder Road hereinafter called "the company", ("the construction agreement") the company has been granted the construction to implement the project envisaging construction, operation and maintenance of Four Laning Of Chinchoti-Kaman Anjarphata To Mankoli Road M.S.H. No.4 Km. 0/000 to 26/425 Taluka Bhiwandi Dist Thane. On build, operate and transfer basis.
- B. In terms of Article 3.1(a) of the construction agreement, the Company is required to furnish to the GOM, an unconditional and irrevocable bank guarantee for an amount of Rs. 190 Lacks (Rupees One Hundred Ninety Lacks only) as security for due and punctual performance/discharge by the company of its obligations under the construction agreement during the implementation Period, substantially in the format annexed as Schedule 'Q' to the construction agreement
- C. At the request of the company, the guarantor has agreed to provide guarantee, being these presents guaranteeing the due and punctual performance/discharge by the company of its obligations under the construction agreement during the Implementation Period.

NOW THEREFORE THIS DEED WITNESSETH AS FOLLOWS:

1. Capitalized terms used herein but not defined shall have to meaning assigned to them respectively in the Construction agreement.
2. The Guarantor hereby guarantees the due and punctual performance by the Company of all its obligations under the construction agreement during the Operations Period.
3. The Guarantor shall, without demur, pay to the GOM sums not exceeding in aggregate Rs190 Lacks Rupees One Hundred Ninety Lacks only), within five (5) days of receipt of a written demand therefore from the GOM stating that the Company has failed to meet its performance obligations under the construction agreement during the Operations Period. The Guarantor shall have no obligation to go into the veracity of any demand made by the GOM and shall pay the amounts specified in the demand notwithstanding any direction to the contrary given or any dispute whatsoever raised by the company or any other person.

...3/-



इसे ओरिएण्टल बैंक ऑफ़ कॉमर्स
FOR ORIENTAL BANK OF COMMERCE

इसे ओरिएण्टल बैंक ऑफ़ कॉमर्स
FOR ORIENTAL BANK OF COMMERCE

By # 09680021208

... 3 ...

4. In order to give effect to this Guarantee the GOM shall be entitled to treat the Guarantor as the principal debtor. The obligations of Guarantor shall not be affected by any variations in the terms and conditions of the construction agreement or other documents or by the extension of time for performance granted to the Company or postponement/ non exercise / delayed exercise of any of its rights by the GOM or any indulgence shown by the GOM to the Concessionaire and the Guarantor shall not be relieved from its obligations under this Guarantee on account of any such variation, extension, postponement, non-exercise, delayed exercise of any of its rights by the GOM or any change in the constitution of Guarantor or any indulgence shown by the GOM provided nothing contained herein shall enlarge the Guarantor's obligation hereunder, or any other conditions or circumstances under which in law, a security would be discharged.
5. This Guarantee shall be irrevocable and shall remain in full force and effect until discharged by the Guarantor of all its obligations hereunder.
6. This Guarantee shall not be affected by any change in the constitution or winding up of the company/ the Guarantor or any absorption, merger or amalgamation of the company/the Guarantor with any other person.
7. The Guarantor has power to issue this guarantee and discharge the obligations contemplated herein, and the undersigned is duly authorized to execute this Guarantee pursuant to the power granted under Construction agreement valid for 10 Years i.e. 17/7/2018.

Notwithstanding anything contained herein above.

1. Our liability under the captioned bank guarantee shall not exceed Rs. 1,90,00,000/- (Rupees One Crore Ninety lacs only)
2. This Bank guarantee shall be valid up to 17/7/2018.
3. We are liable to pay the guarantee amount or any part thereof under this bank guarantee only if you serve upon as a written claim on or before 17/7/2018.

IN WITNESS WHEREOF THE GUARANTOR HAS SETS HIS HANDS
HEREUNTO ON THE DAY, MONTH AND YEAR FIRST HEREINABOVE
WRITTEN.

SIGNED AND DELIVERED by Oriental Bank of Commerce Bank by the

Hand of Shri. _____
Its _____ and authorized official.

हस्त मोरियम्टल बैंक ऑफ कॉमर्स
FOR ORIENTAL BANK OF COMMERCE

Bank Manager
वाशी नवी धरें बाबा/Vashi Navi Mumbai Branch

SEEJA S. DANIEL
P. A. No. -S-942

हस्त मोरियम्टल बैंक ऑफ कॉमर्स
FOR ORIENTAL BANK OF COMMERCE

Bank Manager
वाशी नवी धरें बाबा/Vashi Navi Mumbai Branch

Rajul R. Merchant
P.A. # R-561

मुख्य अभियंता यांचे कार्यालया
मुंबई (सा.बां.) प्रादेशिक विभाग,
२५, मर्लबान रोड, फोर्ट,
मुंबई - ४०० ००९

ई-मेल : comsam@mahapwd.com	www.mahapwd.com	फोन : २०७८५११
		फॅक्स : ०२२-२०७४७००
जा.क्र.मुअ(चु)/का.५(१)/	५२७०	दिनांक : १२/११/२००७

प्रति,
अधीक्षक अभियंता,
ठाणे सा.बां.मंडळ,

अधीक्षक अभियंता	ठाणे सा.बां.मंडळ तहणे
आ. व	
स.अ.नं.	१२७१
आवृत्ति	६
प्रमाण	निष्ठा
आवृत्ति क्र.	१२७०२
दिनांक	२३/११/०७

विषय : खाजगीकरणानंतर भिवंडी तालुक्यातील विदर्दी कामण अंजूरकाटा माणकोली प्रामा ५.४ कि.मी.०/००० ते २६/४२५ रस्त्याचे चौपटरीकरण करणे निविदापूर्व बैठक

संदर्भ : १) या कार्यालयाचे पत्र क्र.मुअ(चु)/का-५(१)/५८३८, दि.७.११.२००७.
२) शासन सा.बां.विभागाचे पत्र क्र.खाक्षेस-२००६/प्र.क्र.२०८/रस्ते-९, दि.१२.११.०७.
३) आपले कार्यालयीन पत्र क्र.ताम/जी-४१/निविदा/११७७५, दि.१५.११.२००७.
(या कार्यालयास प्राप्त दि.१७.११.२००७.)

विषयांकित कामाचे पूर्व अर्हता पात्र निविदाकार यांची निविदापूर्व बैठक दि.२६/१०/२००७ रोजी दुपारी ४.०० वाजता प्रादेशिक कार्यालयात आयोजित केली होती. बैठकीकरिता मे.चेतक एंटरप्रायझेस प्रा.लि. मे.के.टी.कन्स्ट्रक्शन (इंडिया) लि. इंदोर, मे.भारत उद्योग लि.उल्हासनगर यांचे प्रतिनिधी उपस्थित होते. बैठकीत त्यांनी त्यांचे पत्र दि. २६.१०.२००७ अन्वये मुद्दे उपस्थित केले

२/- मे.चेतक एंटरप्रायझेस प्रा.लि. यांनी निविदेमधील Financial Closure करिता १८० दिवसांच्या मुदतीची भागणी केली होती. त्या अनुषंगाने शासनास या कार्यालयाचे संदर्भित पत्र क्र. १ अन्वये प्रस्ताव सादर केला होता. त्यास शासनाचे पत्र क्र.खाक्षेस-२००६/प्र.क्र.२०८/रस्ते-९, दि.१२.११.२००७ अन्वये Financial Closure करिता १२० दिवसांच्या मुदतीच्या प्रस्तावास मान्यता दिली आहे, तरी त्या अनुषंगाने निविदा पत्रकात करावयाचा बदल व इतर अनुषंगिक अंतर्भूत करावयाच्या आवश्यक त्या अतिरिक्त अटीबाबतचे Addendum/Common Set of Deviation सोबत जोडले आहे.

३/- निविदा पत्रकामध्ये केलेले बदल (Addendum/Common Set of Deviation) निविदेचा एक भाग म्हणून राहिल व तो पूर्व अर्हता पात्र चारही निविदाकारांना लागू राहिल.

४/- प्रस्तुत Addendum/Common Set of Deviation व्यतिरिक्त निविदा पत्रकामधील सर्व अटी व शर्तीमध्ये कोणताही बदल नाही.

५/- पूर्व अर्हता पात्र चारही निविदाकारांस प्रस्तुत Addendum/Common Set of Deviation पाठवून निविदा सादर करण्याच्या योग्य त्या सुचना देण्यात याव्यात.

६/- पूर्व अर्हता पात्र चारही निविदाकारास स्पष्ट कल्पना द्यावी की, त्यांचा देकार हा Addendum/Common Set of Deviation विचारात घेतून द्यावा व त्यांचा देकार विनाशित राहिल. सशर्त देकार फेटाळण्यात येतील.

७/- पूर्व अर्हता पात्र चार निविदाकारांना Addendum/Common Set of Deviation डाकपोच पावलीने/हस्तबटवडाने विनाविलंब पाठविण्याची व्यवस्था करावी.

स्थळप्रत मु.अ.यांनी मंजूर केली आहे.

सोबत : १. Addendum

२. संदर्भित शारान पत्रांची प्रत

मुख्य अभियंता

मुंबई (सा.चा.) प्रादेशिक विभाग

मुंबई करिता

प्रत : कार्यकारी अभियंता, सा.चा.विभाग, राणे यांना माहिती व कार्यवाहीसाठी रवाना.

Addendum / Common set of Deviation

NAME OF WORK : Four Lining of Chinchoti - Kaman -Anjur Photo to Mankill Road M. S. H. No.4 Km.0/00 to 26/425
Tal. Bhiwandi Dist. Thane..

Sr. No	Reference to N.I.T.			As appeared in N.I.T.	Addendum / Common set of Deviation.
	Volume No	Page No	Item/Clause / Article/ Condition /Line/Serial No.		
1	Volume No.II.	Vol.II Page 64	Volume No.II, Section XV Serial No.24		5
1	Volume No.II.	Vol.II Page 64	Volume No.II, Section XV Serial No.24		Additional clause is inserted at Sr.24 of Section XV in Volume II as below. Financial Closure : The Entrepreneur shall at his cost, expenses and risk make such financial arrangement as would be necessary to finance the project and to meet its obligations under this Arrangement in timely manner. The Entrepreneur Shall submit financial closure document to Employer within 120 days from the date of issue of the letter of acceptance. The Notice to proceed with work / the work order shall be issued after financial closure is achieved by the Entrepreneur and accordingly informed to the Employer . If the financial closure is not achieved by Entrepreneur within 120 days the security deposit shall be forfeited.
2	Volume II	61	Volume II, Section XV, Sr.No.7	Article No.1,Definitions and Interpretation on page No.31 of Section -II of Volume 1. The Definition of "Equity" is Deleted	Article No.1,Definitions and Interpretation on page No.31 of Section -I of Volume 1, The Definition of "Equity" remains same as on page 31 of Vol. I

Sr No	Reference to N.I.T.			As appeared in N.I.T.	Addendum / Common set of Deviation
	Volume No	Page No	Item/Clause / Article/ Condition /Line/Serial No.		
1	2	3	4	5	
3	Vol.III	21	vii) Construction of Toll Plaza of Toll Plaza	vii) Construction of Toll Plaza :- Existing Toll Plaza at Ch.13/600 near Malodi village shall be demolished. The Concessionaire shall construct New Toll Plaza as per model Toll Plaza booklet published by P.W.D. Govt. of Maharashtra. Reference drawings are provided on Page No.37 to 73 of Volume-IV. The concessionaire shall make necessary arrangements for electrification of Toll Plaza, Water supply, Telephone lines and Computerization at his own cost. The boards are to be installed by the Concessionaire at Toll Station in Bold letters at such location visible to all drivers, consisting of following information: 1) Name of Project 2) Original cost of Project. 3) Entrepreneurs name and address. 4) Govt Notification No. 5) Toll Rates 6) Concessions given by Govt. as per Notification in toll rates 7) Name of concerned P.W. Division. 8) Contact person of the department (Name and Telephone No.) 9) Contact person of the Entrepreneur (Name and Telephone No.) 10) Nearest Police station, distance and telephone No. 11) Nearest Govt. Hospital, distance and telephone No. 12) Concession period as per approved tender (from - to)	
4	Annexure -I for Volume. IV	---	Drawing of C.D. Work Fanning	---	Drawing for Fanning of C.D work is attached herewith.

O.C. Approved by C.E.

[Signature]
For Chief Engineer
Mumbai P.W. Region
Mumbai

क्रमांक : खाशेम २००६/प्र.क्र.२०८/१२८-१.

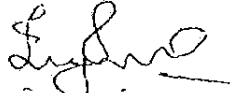
सार्वजनिक बांधकाम विभाग,
मंत्रालय, मुंबई- ४०० ०३२.
दिनांक : १२.११.२००७

प्रति,
मुख्य अभियंता,
सार्वजनिक बांधकाम प्रादेशिक विभाग,
मुंबई.

विषय : खाजगीकरणार्थील भिवंडी तालुक्यातील चिंचोटी-कामण-
अमूरफाटा-मानकाली प्रताप-४, कि.मी.००/०० ते २६/४२५
या रस्त्याचे चौपदरीकरण करणे.

संदर्भ : आपले पत्र क्र.मु.अ(मुं)/का-५(१)/५८३८, दिनांक ०७.११.२००७

उपरोक्त तिष्याबाबत संदर्भित पत्राच्या अनुषंगाने सादर केलेल्या Financial
Closure करिता १२० दिवसांच्या भुदतीच्या प्रस्तावास शासनाची मान्यता आहे असे
आपणांस कळविण्याचे आदेश आहेत.

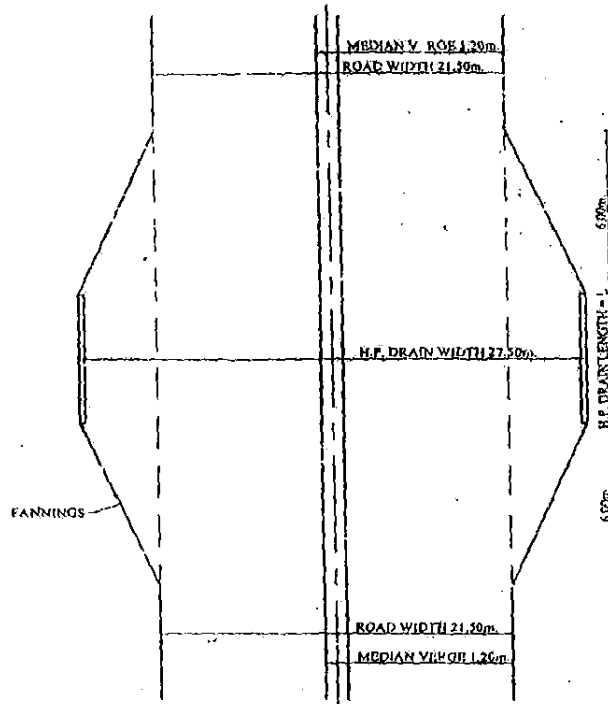

(सतिश सी. पुरी)
कायदास अधिकारी

प्रति,
अधीक्षक अभियंता, सार्वजनिक बांधकाम मंडळ, ठाणे,
कार्यकारी अभियंता, सार्वजनिक बांधकाम विभाग, ठाणे.


P.W.D. THANE

NOTES:

1. ALL DIMENSIONS ARE IN METRES, EXCEPT OTHERWISE SPECIFIED.
2. THIS DIMENSION SHALL NOT BE SCALED FROM THE DRAWING FOLLOW ONLY WRITTEN DIMENSION.
3. THE GIVEN DIMENSIONS ARE FOR INDICATIVE PURPOSE ONLY AND VARIABLE AS PER SITE CONDITIONS.



TYPICAL PLAN FOR H.P. DRAINS (FOR FANNINGS)

NAME OF WORK	FOUR LANE TO CHINCHOLI - KAMAN - ANJURPHATA - MANKOLI ROAD, M.S.H. - 4, K.M. 000/26/425, TAL - BHIWADI, DIST - THANE, (UNDER B.O.T.)	
TITLE	TYPICAL PLAN FOR H.P. DRAINS (FOR FANNINGS)	
SUPERINTENDING ENGINEER Thane (P. W.) Circle Thane.	DEPUTY ENGINEER BHIWADI (P. W.) SUB-DIVISION, BHIWADI.	EXECUTIVE ENGINEER THANE (P. W.) DIVISION, THANE.
	DRG. NO. - 1	
	DATE -	

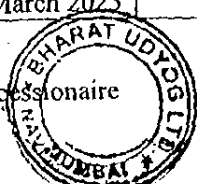
GOVERNMENT OF MAHARASHTRA

SECTION- X

The Toll Rates which will be applicable to this project will be as follows :

YEAR	Six seater Auto Rickshaw (Tum Tum), Motor Car, Jeep (having carriage capacity upto twelve passengers excluding driver) such as Tata Sumo, Trax, Commander, etc.;	Mini Bus (having carriage capacity of more than twelve and upto twenty passengers, excluding driver) and vehicles carrying goods except those mentioned in entries at column No.4 & 5	Trucks, Buses.	Heavy Motor Vehicles as defined in the Motor Vehicles Act, 1988 (59 of 1988) such as Trucks, Multi-Axle vehicles, etc., except vehicles covered by the entries at column number 4.
1	2	3	4	5
	Total Rate	Total Rate	Total Rate	Total Rate
1 July, 1998 To 30 June 2001	12.00	18.00	35.00	60.00
1 July, 2001 To 31 March 2004	15.00	25.00	45.00	75.00
1 April, 2004 To 31 March 2007	20.00	25.00	55.00	90.00
1 April, 2007 To 31 March 2010	20.00	30.00	65.00	110.00
1 April, 2010 To 31 March 2013	25.00	40.00	75.00	130.00
1 April, 2013 To 31 March 2016	30.00	45.00	90.00	155.00
1 April, 2016 To 31 March 2019	35.00	55.00	105.00	180.00
1 April, 2019 To 31 March 2022	45.00	65.00	125.00	215.00
1 April, 2022 To 31 March 2025	50.00	75.00	150.00	260.00

Concessionaire



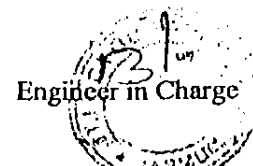
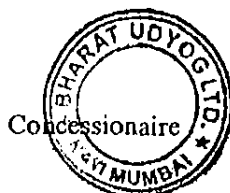
Engineer in Charge

GOVERNMENT OF MAHARASHTRA

1 April, 2025 To 31 March 2028	60.00	90.00	180.00	310.00
1 April, 2028 To 31 March 2031	70.00	110.00	210.00	370.00
1 April, 2031 To 31 March 2034	90.00	130.00	250.00	440.00

The Toll station shall be located in Km.13/600 at Malodi Village.

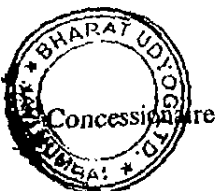
The concessionaire will be permitted to collect the Toll at the approved Toll station only.



GOVERNMENT OF MAHARASHTRA

Section - XV

Amendments to Provisions in Volume -I



SECTION- XV

The Amendments to Volume - I

1. Clause 3.2, Clause 3.3 on page no.9 of Section-I of Volume-I. is deleted.
2. Clause 8.1, on page no.10 of Section-I of Volume-I.

A prebid conference open to all prospective bidders will be held at the time and place as per IFB in Volume-II wherein the prospective bidders will have an opportunity to obtain clarifications regarding the bid conditions and the work. The prospective bidders are free to ask any additional information or clarification, either in writing or orally and reply to the same will be given in writing by the Employer. The copies of the question raised and the replies given will be furnished to all those attending the meeting (and subsequently to all purchasers of bid documents). Any modifications of bid documents, which may become necessary as a result of prebid conference shall be through issuance of an addendum pursuant to Clause 9 of ITB of these instructions.

3. Clause 15.2, on page no.12 of Section-I of Volume-I.

Bid security shall be in the form of Demand Draft; Government Treasury/ Sub treasury Chalan or Term Deposit Receipt valid for a period of 12 (twelve) months from the date of submission of tender, and drawn on any branch situated in Maharashtra of any Nationalised or Scheduled bank pledged in favour of the Engineer in Charge. The said amount of bid security shall not carry any interest whatsoever. The bid security in any other form other than described above shall not be accepted. (Amount of Bid Security shall be as per IFB in Volume II)

4. Clause 17.3.1 (d) to 17.3.1 (o) on page no.14 of Section-I of Volume-I is deleted.
5. Clause 21.1 on page no.16 of Section-I of Volume-I. is modified as under.

1. Chief Engineer, Mumbai P.W.Region, : Chairman
Mumbai
2. Superintending Engineer, P.W.Circle, Thane : Member
3. Superintending Engineer, P.W.Circle, Mumbai : Member
4. Superintending Engineer, Vigilance & Quality : Member
Control Circle, Navi Mumbai
5. Executive Engineer, Thane P.W.Division, : Member Secretary
Thane
6. Chartered Accountant : Member



Engineer in Charge

6. Clause 27.3 (b) on page no.20 of Section-I of Volume-I is modified as under :-

The bidder with the lowest correct concession period, determined as per Clause 25 of ITB will be invited for further negotiations as may be necessary. If the negotiations with the firm are successful, the award will be made to that bidder. If, however, it is seen that a contract with reasonable terms cannot be concluded with the bidder with the lowest corrected concession period, the bidder with the second lowest concession period, will be invited for negotiations. The process will be repeated until an agreed contract is concluded.

6. Clause 27.3 (c) on page no.20 of Section-I of Volume-I is Deleted
7. Article 1, Definitions and Interpretation on page no.31 of Section-I of Volume-I
The Definition of "Equity" is Deleted.

8. Article 3.1 (a) (b) Performance Security on page no.44 of Section-II of Volume-I.
- (a) Before executing this Concessionaire agreement the Concessionaire has already deposited performance security of **Rs. 190.00 Lakhs**, for due and punctual performance of its obligations during the Implementation Period, deliver to the GOM, simultaneously with the execution of this Agreement a bank guarantee from a branch situated in Maharashtra of scheduled/ Nationalised bank acceptable to the GOM, in the form set forth in Schedule 'Q', the "Performance Security for construction" for a sum of **Rs. 190.00 Lakhs**. (as per Contract Data - volume II)
- (b) The Concessionaire shall for due and punctual performance of obligations during the Operations Period deliver to the GOM, on or before the COD, the bank guarantee from a branch situated in Maharashtra of scheduled, Nationalised bank acceptable to the GOM in form set forth in Schedule/ 'R' Performance Security for operation and maintenance. (as per Contract Data - volume II) **Rs. 60.00 Lakhs**.

9. Article 3.3 on page 44 of section-II of Volume-I is modified as under
Article 3.3(a):- The performance security for construction shall be released after one year of handing over of the project to Govt. of Maharashtra on completion of concession period.

Article 3.3 (b):- The performance security for operation and maintainance shall be released after completion of defect liability period (as mentioned on page-38 of Section-VI of Volume-II.).



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Engineer in Charge



10. Article 6, Supervision Consultant on page no.52 of Section II of Volume I is Deleted. The Supervision will be done by P.W.D. Staff.
11. Clause 10.4 of Article-10 on page no.64, 65 & 66 of Section-II of Volume-I, is deleted.
12. Article-11, Supervision Charges on page no.67 of Section-II of Volume-I, is deleted.
13. Clause 13.2 (b) (ii) of Article 13, Change of Scope on page no.70 of Section II, Volume I is modified as under.

For the changed scope, the Concessionaire shall carryout such items of work at the rate of prevalent DSK. If there are no rates available in the DSR then the concessionaire shall provide the analysis of rates for carrying out the items which are not covered by the D.S.R. The Superintending Engineer will scrutinise and approve the rates. The decision of the superintending Engineer shall be final and binding on the concessionaire.
14. Clause 13.2 (c) of Article 13, Change of Scope on page no.70 of Section II, Volume I is modified as under.

The Engineer-in-charge shall review the information provided by the Concessionaire, assess quantities of items of work, verify the analysis of rates if required, determine the additional cost to the Concessionaire as a result of such Change of Scope, add such additional cost to Initial Investment in the Cashflow Projections and determine the extension, if any, to the Concession Period in order to maintain the Internal Rate of Return. Provided, that the projections for years beyond the Concession Period shall be average of three years immediately preceding the last year of the original Cashflow Projections.
15. Forms for "Submission of Bid" of Schedule E on page 105 and 106 of Section-III of Volume-I is modified and attached in Volume-III page-6.
16. Form-I of Schedule-E on page no.107 of Section-III of Volume-I is deleted and Form-2 on page 108 (Details of the Total Project cost) is modified and attached in Volume III
17. The duties of supervision consultant given in Schedule-I of page no.123 of Section-III of Volume-I will be performed by the Engineer-in-charge.

18. Schedule M, Tests on page no.180, of Section-III of Volume-I. The

Note' is to be read as under

Note : Out of total test to be carried out as mentioned above minimum 30% of the test are to be carried out from Regional Laboratory, Q.C. & Vig. Circle, of the Department.

19. Schedule 'O' Minimum Maintenance Requirements, para 1 on page no.183 of section III, of Volume I is to be read as under :

The Concessionaire shall repair and maintain the Project facility roads, Bridges, Bridge approaches, C.D. Works, tunnels, other structures etc. till it is finally handed over to the Government at the end of the concession period. He shall keep it in the same condition and standard as contracted, with necessary repairs and maintenance at his own cost. The Engineer in charge shall be at the liberty to direct Concessionaire to measure the roughness index on any of the day in the presence of representative of the Engineer in charge or he may measure the roughness index departmentally by informing the Concessionaire. In addition to this intermittent checking of roughness index will have to be carried out as per instruction of the Engineer in charge. The roughness index for the road surface shall not be more than 2000 mm and shall not be allowed to deteriorate beyond 2000 mm per km. during the entire concession period. If the roughness index goes beyond 2000 mm per km. renewal coat of minimum 40 mm thick Bituminous concrete or the treatment stipulated in the tender condition as per Bidding Data Volume II (with pothole/ patch repairing work if required), will have to be laid for such stretch along with thermoplastic painting as directed by the Engineer in charge.

20. Schedule 'O' Minimum Maintenance Requirements, para 3 on page no.183 of section III, of Volume I is to be read as under :

The renewal coat of minimum 40 mm Bituminous Concrete in the volume II should be provided for full length of the project once in every 6 years or as stipulated in the volume II throughout the concession period. Apart from this periodical renewal, the stretches in which roughness index goes beyond 2500 mm per kilometer, shall be renewed.

The provision of renewal coat shall be minimum 40 mm Bituminous Concrete or as stipulated in the bid data in volume II. However the Concessionaire may provide higher treatment to keep the roughness index below 2000mm/km without any extra claims with prior approval of the Engineer in charge.

21. Schedule 'O' Minimum Maintenance Requirements, para 5 on page no.185 of section III, of Volume I is to be read as under :



The Concessionaire shall take suitable corrective measures for rectification of road profile, camber and superelevation. The condition of the pavement shall be judged and rated as per the serviceability scale in the AASHO Road Test. The acceptance rating as judged by the Engineer shall not fall below '4'.

If the pavement, wearing surface, any part of structures like bridges, C.D. works, ancillary structures, protective works, embankments, retaining walls, gutters, drainage system, road furniture or appurtenances and fixtures, etc. show deterioration such as to require strengthening or renewal the same shall be done by the Concessionaire at his own cost. At the time of handing over the facility back to the Government at the end of the concession period, the same serviceability criteria shall apply and must renewal/ strengthening shall have to be carried out by the Concessionaire at his own cost, of 40 mm thick Bituminous concrete as given in Volume II in view of roughness index not more than 2000 mm per k.m.

22. Schedule W, Details of experience and performance of joints venture / consortium on page no.233 to 246 of Section-III of Volume-I are Deleted and Averments and Authorisation -Proforma 12 on page no.247 is to be read as Averments and Authorisation -Proforma
23. Additional condition "F" is included in maintenance requirements (Clause 3.0 A) Schedule-X of Section-III of Volume-I on page no.252 is as below :

If the concessionaire fails to maintain the road in traffic worthy condition as per instructions above the repair work will be got done at risk and cost of the concessionaire and the expenditure so incurred will be recovered by encashing the performance security. It will be obligatory on the part of the concessionaire to recupe the amount so adjusted through the performance guarantee within 15 days from the receipt of the notice

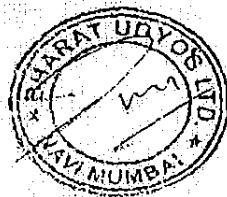


13/2
Engineer in Charge

FORM - 2

Details of The Total Project Cost

Items	Estimated Cost	
	In Figure	In Word
With Details of cost of construction.		
Earth Work	42831750	Rs. Four crores twenty eight lakhs thirty one thousand seven hundred fifty only
Granular Sub Base - 500 mm thick	99573750	Rs. Six crores ninety five lakhs seventy three thousand seven hundred fifty only
Wet Mix Macadam - 150mm thick	42033047	Rs. Four crores twenty lakhs thirty three thousand fourty seven only
Hot Mix Hot Laid Bituminous Macadam - 75 mm thick compacted with 3.3% bitumen content (30 / 70 grade)	205095000	Rs. Twenty crores fifty lakhs ninety five thousand only
Hot Mix Hot Laid Bituminous Macadam - 50 mm thick compacted with 4.5% bitumen content (30 / 70 grade)	101700000	Rs. Ten crores seventeen lakhs only
Bitumen concrete 40mm thick compacted with 5% bitumen content (30 / 40 grade)	101700000	Rs. Ten crores seventeen lakhs only
Construction of C.C. Pavement	174993750	Rs. Seventeen crores forty nine lakhs ninety three thousand seven hundred fifty only
Construction of median verge - 22.630 Km	44310000	Rs. Four crores forty three lakhs ten thousand only
Widening of H. P. Drains - 89 Nos.	20580000	Rs. Two crores five lakhs sixty thousand only
Widening of M.B. Drains - 10 Nos.	14130000	Rs. One crore fourty one lakhs thirty thousand only
Repair of Minor Bridges - 4 Nos.	11800000	Rs. One crore eighteen lakhs only
Repair of Major Bridges - 2 Nos.	9200000	Rs. Ninety two lakhs only
Construction of New Kharbay Creek Bridge	18700000	Rs. One crore eighty seven lakhs only
Road Furnitures:		
(a) All types of Boards	2209500	Rs. Twenty two lakhs nine thousand five hundred only
(b) Thermoplastic Pavement Marking	5549250	Rs. Fifty five lakhs fourty nine thousand two hundred fifty only
(c) 200 mt stone, Km Stone, Boundary Stones etc.	1500000	Rs. Fifteen lakhs only
(d) Erection of Gantries.	2000000	Rs. Twenty lakhs only
(e) Metal Crash Barriers.	2500000	Rs. Twenty five lakhs only
TOTAL	870386047	Rs. Eighty seven crores three lakhs eighty six thousand fourty seven only



FORM - 2

Details of The Total Project Cost

Cost of Auxiliary Works		
Measurement / Line Layout	1600000	Rs. Fifteen lakhs only
Investigative & Supervision Charges	3245000	Rs. Thirty two lakhs fourty five thousand only
Material & Pre-operation Expenses	2200000	Rs. Twenty two lakhs only
Cost of construction of Toll Plaza	23816075	Rs. Two crores thirty eight lakhs sixteen thousand eight hundred seventy five only.
Project specific preliminary expenses		
(a) Land acquisition and Encroachment removal - rehabilitation	50720000	Rs. Five crores seven lakhs twenty thousand only
(b) Shifting of Water Supply Pipe Lines	3408000	Rs. Thirty four lakhs six thousand only
(c) Shifting of Electric Poles with service Line	16612000	Rs. One crore sixty six lakhs twelve thousand only
(d) Tree transplantation	4550000	Rs. Forty five lakhs forty thousand only
(e) Any other expenses		
Drainage Improvement	6200000	Rs. Sixty two lakhs only
Set up Sutter in M-20	22900000	Rs. Two crores twenty nine lakhs only
Interlocked paver block	14336654	Rs. One crore fourty three lakhs thirty six thousand six hundred fifty four only
Consultant for Supervision	15000000	Rs. One crore forty lakhs only
Set axes	2543500	Rs. Twenty five lakhs fourty three thousand five hundred only
TOTAL	167030029	Rs. Sixteen crores seventy lakhs thirty thousand twenty nine only
Amount to be paid to existing Entrepreneur	117755000	Rupees One Thousand One Hundred Seventy Seven Lakhs & Fifty Five Thousand Only
Cost of any other items if required to complete the work in all respect, concessionaire shall quote the cost.	50000000	Rs. Five Crores Only
Total Project Cost A + B + C + D	1205171078	Rs. One hundred twenty crores fifty one lakhs seventy one thousand seventy six only.



The Project Cost quoted

D B 120.51707

A. D. D. S. R. 9/12

19-12-07

G. M. S.

FORM - 3

Financial Details of the Proposal

Name of Work :- Four Lining of Chirichoti - Kaman Anjurphata to Mankoli
Road M.S.H. No. 4 Km 0/000 - 25/425 Taluka - Bhiwandi
Dist - Thane

1	Total estimated Project cost of Work	Rs. 1205171076
	(in figure and in words) (As per Form 2)	Rs. One hundred twenty crores fifty one lakhs seventy one thousand seventy six only.
2	a) Assumed Rate of Interest on Debt.	13% ✓
	b) Rate of Interest on Equity (If any)	13% ✓
3	Estimated construction Period	30 month ✓
4	Estimated Yearly Maintenance Cost	as per cash flow
5	Concession period offered by the Concessionaire (in figure and in words)	25 YEAR 8 MONTH ✓
6	Estimated cost of Management and overheads, etc., at specified intervals.	as per cash flow ✓
7	Estimated cost of Renewals and special Repairs, etc., at specified intervals.	as per cash flow
8	Assumed Debt / Equity Ratio.	75:25
9	Any other Details.	

Name of Project :- Four Lanning of Chinchoti - Kaman Anjurphata to Mankoli road M.S.H.No.4 Km. 0/00 - 26/425 Taluka Bhiwandi Dist Thane

Statement Showing Estimated Yearly Toll Collection

1.05 For 1st to 5th

TRAFFIC GROWTH

5%

year

4% 1.04 For 6th to 10th year

3% 1.03 For 11th onwards

No of Year	Years		Toll Rate in Rs.				Traffic Per Day				Toll Income / Day				Total Toll Income / year	Deduction for frequent Travellers etc.	Net Toll income
	From	To	Car	LCV	Truck Bus	Trailer	Car	LCV	Truck Bus	Trailer	Car	LCV	Truck Bus	Trailer			
0	01.04.07	31.03.08	20	30	65	110	1279	2195	1929	832	25530	65850	125385	91520	112542275	18006764	94535511
1	01.04.08	31.03.09	20	30	65	110	1343	2305	2025	874	26859	69143	131654	96096	118169389	18907102	99262287
2	01.04.09	31.03.10	20	30	65	110	1410	2420	2127	917	28202	72600	138237	100901	124077858	19852457	104225401
3	01.04.10	31.03.11	25	40	75	130	1481	2541	2233	963	37015	101639	167479	125209	157440068	25190411	132249657
4	01.04.11	31.03.12	25	40	75	130	1555	2668	2345	1011	38866	106721	175853	131469	165312071	26449931	138862140
5	01.04.12	31.03.13	25	40	75	130	1632	2801	2462	1062	40809	112058	184646	136043	173577675	27772428	145805247
6	01.04.13	31.03.14	30	45	90	155	1698	2913	2566	1104	50930	131107	230438	171173	213031576	34035052	178946524
7	01.04.14	31.03.15	30	45	90	155	1766	3030	2663	1149	52907	136352	239656	178020	221552639	35448454	186104385
8	01.04.15	31.03.16	30	45	90	155	1836	3151	2769	1194	55086	141606	249242	185141	230414952	36865382	193548560
9	01.04.16	31.03.17	35	55	105	180	1910	3277	2880	1242	66837	180251	302414	223602	282182520	45149251	237033589
10	01.04.17	31.03.18	35	55	105	180	1985	3408	2995	1292	69511	187461	314510	232546	293470133	46955221	246514912
11	01.04.18	31.03.19	35	55	105	180	2046	3511	3085	1331	71596	193085	323945	239522	302274237	48363878	253910359
12	01.04.19	31.03.20	45	65	125	215	2107	3616	3178	1371	94814	235037	397219	294679	372935119	59670099	313268020
13	01.04.20	31.03.21	45	65	125	215	2170	3724	3273	1412	97658	242088	409135	303520	384126262	61460202	322666060
14	01.04.21	31.03.22	45	65	125	215	2235	3836	3371	1454	100588	249350	421410	312625	395650060	63004008	332246042
15	01.04.22	31.03.23	50	75	150	260	2302	3951	3472	1498	115117	296343	520862	389400	482428746	77188599	405240147
16	01.04.23	31.03.24	50	75	150	260	2371	4070	3577	1543	118571	305234	536488	401082	496901608	79504257	417397351
17	01.04.24	31.03.25	50	75	150	260	2443	4192	3684	1589	122128	314391	552583	413115	511809556	81889565	429919271
18	01.04.25	31.03.26	60	90	180	310	2516	4318	3794	1637	150950	386587	682992	507336	631400804	101024129	530376875
19	01.04.26	31.03.27	60	90	180	310	2591	4447	3908	1686	155478	400244	703482	522556	650342828	104054952	546287976
20	01.04.27	31.03.28	60	90	180	310	2669	4581	4025	1738	160143	412252	724586	538233	669853113	107176498	562676615
21	01.04.28	31.03.29	70	110	210	370	2749	4718	4146	1788	192438	518979	870711	66380	818989975	131038390	687951579
22	01.04.29	31.03.30	70	110	210	370	2832	4860	4271	1842	198211	534548	896833	681530	843559675	134959546	708590127
23	01.04.30	31.03.31	70	110	210	370	2917	5005	4399	1897	204158	550585	923738	701976	868866465	139018634	729847831
24	01.04.31	31.03.32	90	130	250	440	3004	5155	4531	1954	270363	670212	1132678	859826	1070573309	171291805	899282000
25	01.04.32	31.03.33	90	130	250	440	3094	5310	4667	2013	278474	690318	1166659	885620	1102691024	176430534	926260460
26	01.04.33	31.03.34	90	130	250	440	3187	5469	4807	2073	286828	711028	1201658	912189	1135771754	181723381	954045273
															12823948781		10777156979

Project Cost 1205171076

Rate of Interest

13%

Cost of Repair & Maintenance

7051373

Inflation Rate

5%

Total Collection Charges 5136000

Sr. No.	From	To	Yrs/Month	Project Cost	Mainmn. Cost	Inflation Factor	Current Project Cost	Current Mainmn. Cost	Other Exp. If any	Total Collection Charges	Total Current Expenditure	Net Total Income	Q/S Amt.	Total Q/S Amount	Interest on Borrowing	Rate of Interest	Net Income	IRR
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1	01.04.08	31.03.08	1	565000000	7500000	1.05	593250000	7875000			601125000		801125000	940198137	39073125	13	-801125000	(NULM)
2	01.04.09	31.03.10	2	560080438	2500000	1.1	617466632.9	2756250			620227843		620227843	1383981294	-23541043.8	13	-620227843.9	(NULM)
3	01.04.10	31.03.11	3	85050201	7051373	1.18	99456238.93	8162840	5945562	11294847	132249857	-19855010.1	1542911891	17835537	1	13	19855008.78	(NULM)
4	01.04.11	31.03.12	4		7051373	1.22		8570988	6242840	14813428	138862140	-124048312	1611378757	92515377.9	12	12	124048312.1	(NULM)
5	01.04.12	31.03.13	5		7051373	1.28		8999537	6554982	15554519	145805247	-130250727.2	1682140799	201012939.5	13	13	130250727.2	(NULM)
6	01.04.13	31.03.14	6		7051373	1.34		9449514	6882731	16332245	178848524	-162814278	1727835086	208108396.3	13	13	162814278.2	(NULM)
7	01.04.14	31.03.15	7		7051373	1.41		9921090	7220868	17148558	186104385	-168955321.2	1772290078	213810453.4	13	13	168955321.2	(NULM)
8	01.04.15	31.03.16	8		7051373	1.48		10418089	7588211	18000301	193548560	-175542280	1815735203	218787452.8	13	13	175542280.5	-9.10%
9	01.04.16	31.03.17	9		88140000	1.55		136734069	7967822	144701891	237033569	-9233787.42	1853447327	230044002.7	13	13	9233787.1	-4.50%
10	01.04.17	31.03.18	10		7051373	1.63		11485944	8366003	19851945	248514912	-229682968	1965919420	234215058.2	13	13	229682968.9	-1.82%
11	01.04.18	31.03.19	11		7051373	1.71		12060241	8784303	20844544	257910359	-233955815.2	1973384250	240430045	13	13	233955815.2	1.40%
12	01.04.19	31.03.20	12		7051373	1.8		12863253	9223518	21868771	313268020	-261381248	1919580571	237517569.7	13	13	261381248.7	4.21%
13	01.04.20	31.03.21	13		7051373	1.89		13298415	9854894	22981109	322907080	-29984950.8	184961570	230055950.8	13	13	29984951.2	0.25%
14	01.04.21	31.03.22	14		7051373	1.98		13961236	10168929	24130185	332348042	-308215877	1782206664	220450970.5	13	13	308215877.1	7.87%
15	01.04.22	31.03.23	15		7051373	2.08		14659298	10677375	25336673	405240147	-379903473.7	1580896329	204383138.9	13	13	379903473.8	9.31%
16	01.04.23	31.03.24	16		88140000	2.18		192398588	11211244	203606810	417347351	-213787541	1585785119	191374331	13	13	213787541.2	9.85%
17	01.04.24	31.03.25	17		7051373	2.29		16191878	11771808	27833682	429916271	-471985589.3	1340855270	77357740.8	13	13	471985589.4	10.79%
18	01.04.25	31.03.26	18		7051373	2.41		19989970	12360396	29330368	530379675	-501046309	941325134.3	141171713.5	13	13	501046309	11.67%
19	01.04.26	31.03.27	19		7051373	2.53		17818468	12978418	30796885	546287978	-515491791.5	559970518.2	94095475	13	13	515491792.1	12.37%
20	01.04.27	31.03.28	20		7051373	2.65		18709392	13627337	32336729	592676615	-530310860	67875805.45	38514973.2	13	13	570339888	12.94%
21	01.04.28	31.03.29	21		7051373	2.79		19844861	14308704	33953565	657851579	-653998014	580122409		13	13	653998014.4	13.48%
22	01.04.29	31.03.30	22		7051373	2.93		20827104	15024139	35851244	704590127	-672938883	1259081262		13	13	672938883.0	13.92%
23	01.04.30	31.03.31	23		88140000	3.07		270724104	15775348	286499450	729841631	-443346381	1702409672		13	13	443346380.9	14.34%
24	01.04.31	31.03.32	24		7051373	3.23		22741383	16564113	39305498	896262030	-859678504	2562385177		13	13	859678504.3	14.52%
25	01.04.32	31.03.33	24.3		88140000	3.39		298473324	7248800	305720124	385941858	-80221734	101098035		13	13	80221734.15	14.58%
				1210110639	498536087		1309172872	1175283720	236181940	2720833531	898478905		20145482155	3570373640				

LETTER OF ACCEPTANCE

BY R.P.A.D./Hand Delivery

No -TD/Tender/ 5220
Office of the Executive Engineer,
Thane (P.W.) Division, Thane.
Date -30.06.2008.

To,

✓ M/s Bharat Udyog Limited, Plot No.69,
2nd floor, Sector-19A Dana Bunder Road,
A.P.M.C. Vashi, Navi Mumbai-400 705.

Subject - Construction, operation and maintenance and handing over of
Four Lining of Chinchoti-Kaman Anjurghata to Mankoli Road
M.S.H. No. 4 Km. 0/000 - 26/425 Taluka Bhiwandi Dist. Thane

Reference - Your bid Dated 29.11.2007.

Dear Sir,

This is notify that your bid dated 29.11.2007 for construction and handing over
to Government above mentioned subject work in accordance with the instruction to
Bidders is hereby accepted.

You are hereby requested to furnish performance security, for an amount
equivalent to Rs. 190.00 Lakhs (Rupees One Hundred Ninety Lakhs only) within 15
days of the receipt of this letter and valid upto 28 days from the date of expiry of Defect
Liability Period i.e. upto 27 years 3 months 28 days and sign the contract, failing which
action as stated in Para 30.3 of ITB will be taken.

Yours Faithfully,


Executive Engineer,
Thane (P.W.) Division, Thane.

Copy submitted to Chief Engineer, Mumbai (P.W.) Region, Mumbai for favour of
information please.

Copy submitted to Superintending Engineer, Thane (P.W.) Circle, Thane for favour of
information please.

प्राप्ति नं. ००१ वाशी/Vashi New Mumbai Branch
J. P. Merchant

WHEREAS:

- A. By the letter of acceptance dated 30/6/2008 entered into between the GOM and M/s Bharat Udyog Limited, a company incorporated under the Companies Act, 1956 having its registered office at "Dhananjay Chambers", Plot No. 69, Sector - 19/A, Duna Bunder Road hereinafter called "the company", ("the construction agreement") the company has been granted the construction to implement the project envisaging construction, operation and maintenance of Four Laning Of Chinchoti-Kaman: Anjurphata To Mankeli Road M.S.H. No.4 Km. 0/000 to 26/425 Taluka Bhiwandi Dist Thane. On build, operate and transfer basis.
- B. In terms of Article 3.1(a) of the construction agreement, the Company is required to furnish to the GOM, an unconditional and irrevocable bank guarantee for an amount of Rs. 190 Lacks (Rupees One Hundred Ninety Lacks only) as security for due and punctual performance/discharge by the company of its obligations under the construction agreement during the implementation Period, substantially in the format annexed as Schedule 'Q' to the construction agreement
- C. At the request of the company, the guarantor has agreed to provide guarantee, being these presents guaranteeing the due and punctual performance/discharge by the company of its obligations under the construction agreement during the Implementation Period.

NOW THEREFORE THIS DEED WITNESSETH AS FOLLOWS:

1. Capitalized terms used herein but not defined shall have to meaning assigned to them respectively in the Construction agreement.
2. The Guarantor hereby guarantees the due and punctual performance by the Company of all its obligations under the construction agreement during the Operations Period.
3. The Guarantor shall, without demur, pay to the GOM sums not exceeding in aggregate Rs190 Lacks Rupees One Hundred Ninety Lacks only), within five (5) days of receipt of a written demand therefore from the GOM stating that the Company has failed to meet its performance obligations under the construction agreement during the Operations Period. The Guarantor shall have no obligation to go into the veracity of any demand made by the GOM and shall pay the amounts specified in the demand notwithstanding any direction to the contrary given or any dispute whatsoever raised by the company or any other person.

...3/-

इसे ओरिएण्टल बैंक ऑफ़ कॉमर्स
FOR ORIENTAL BANK OF COMMERCE

इसे ओरिएण्टल बैंक ऑफ़ कॉमर्स
FOR ORIENTAL BANK OF COMMERCE

By # 09680021208

... 3 ...

4. In order to give effect to this Guarantee the GOM shall be entitled to treat the Guarantor as the principal debtor. The obligations of Guarantor shall not be affected by any variations in the terms and conditions of the construction agreement or other documents or by the extension of time for performance granted to the Company or postponement/ non exercise / delayed exercise of any of its rights by the GOM or any indulgence shown by the GOM to the Concessionaire and the Guarantor shall not be relieved from its obligations under this Guarantee on account of any such variation, extension, postponement, non-exercise, delayed exercise of any of its rights by the GOM or any change in the constitution of Guarantor or any indulgence shown by the GOM provided nothing contained herein shall enlarge the Guarantor's obligation hereunder, or any other conditions or circumstances under which in law, a security would be discharged.
5. This Guarantee shall be irrevocable and shall remain in full force and effect until discharged by the Guarantor of all its obligations hereunder.
6. This Guarantee shall not be affected by any change in the constitution or winding up of the company/ the Guarantor or any absorption, merger or amalgamation of the company/the Guarantor with any other person.
7. The Guarantor has power to issue this guarantee and discharge the obligations contemplated herein, and the undersigned is duly authorized to execute this Guarantee pursuant to the power granted under Construction agreement valid for 10 Years i.e. 17/7/2018.

Notwithstanding anything contained herein above.

1. Our liability under the captioned bank guarantee shall not exceed Rs. 1,90,00,000/- (Rupees One Crore Ninety lacs only)
2. This Bank guarantee shall be valid up to 17/7/2018.
3. We are liable to pay the guarantee amount or any part thereof under this bank guarantee only if you serve upon as a written claim on or before 17/7/2018.

IN WITNESS WHEREOF THE GUARANTOR HAS SETS HIS HANDS
HEREUNTO ON THE DAY, MONTH AND YEAR FIRST HEREINABOVE
WRITTEN.

SIGNED AND DELIVERED by Oriental Bank of Commerce Bank by the

Hand of Shri. _____
Its _____ and authorized official.

हस्त मोरियन्टल बैंक ऑफ कॉमर्स
FOR ORIENTAL BANK OF COMMERCE

महेश्वर/Manager
वाशी नवी मुराई ब्रांच/Vashi New Mumbai Branch

SEEJA S. DANIEL
P. A. No.-S-942

हस्त मोरियन्टल बैंक ऑफ कॉमर्स
FOR ORIENTAL BANK OF COMMERCE

महेश्वर/Manager
वाशी नवी मुराई ब्रांच/Vashi New Mumbai Branch
Rajul R. Merchant
P.A. # R-561

मुख्य अभियंता यांचे कार्यालय
मुंबई (सा.बा.) प्रादेशिक विभाग,
२५, मझबान रोड, फोर्ट,
मुंबई - ४०० ००१

ई-मेल : comms@mahapwd.com	www.mahapwd.com	फोन : २०७८५११
फॅक्स : ०२२-२०७४४७००		
जा.क्र.मुअ(मु)/का.५(१)/ ५२६०		दिनांक : १२/११/२०

प्रति,
अधीक्षक अभियंता,
ठाणे सा.बा.मंडळ,

०. प्रत्येक अभियंता	ठाणे सा.बा.मंडळ, ठाणे
आ. जा	
स.अ.म	१२/११
आधीक्षक	६
मुअ	१२/११
आवक क्र	१२६०१
दिनांक	१२/११/२०

विषय : खाजगीकरणार्थात भिवंडी तालुक्यातील विदर्दी कामण अंजूरफाटा माणकोली प्रामा ङ. ४ कि.मी.०/००० ते १६/४३५ रस्त्याचे चौपटरीकरण करणे निविदापूर्व बैठक

संदर्भ : १) या कार्यालयाचे पत्र क्र.मुअ(मु)/का-५(१)/५८३८, दि.१७.११.२००७.
२) शासन सा.बा.विभागाचे पत्र क्र.खाक्षेस-२००६/प्र.क्र.२०८/रस्ते-९, दि.१२.११.०७.
३) आपले कार्यालयीन पत्र क्र.ताम/जी-४१/निविदा/११७७५, दि.१५.११.२००७.
(या कार्यालयास प्राप्त दि.१७.११.२००७.)

विषयाकित कामाचे पूर्व अर्हता पात्र निविदाकार यांची निविदापूर्व बैठक दि.२६/१०/२००७ रोजी दुपारी ४.०० वाजता प्रादेशिक कार्यालयात आयोजित केली होती. बैठकीकरिता मे.चेतक एंटरप्रायझेस प्रा.लि. मे.के.टी.कन्स्ट्रक्शन (इंडिया) लि. हंदोर, मे.भारत उद्योग लि.उल्हासनगर यांचे प्रतिनिधी उपस्थित होते. बैठकीत त्यांनी त्यांचे पत्र दि. २६.१०.२००७ अन्वये मुद्दे उपस्थित केले

२/- मे.चेतक एंटरप्रायझेस प्रा.लि. यांनी निविदेमधील Financial Closure करिता १८० दिवसांच्या मुदतीची मागणी केली होती. त्या अनुषंगाने शासनास या कार्यालयाचे संदर्भित पत्र क्र. १ अन्वये प्रस्ताव सादर केला होता. त्यास शासनाचे पत्र क्र.खाक्षेस-२००६/प्र.क्र.२०८/रस्ते-९, दि.१२.११.२००७ अन्वये Financial Closure करिता १२० दिवसांच्या मुदतीच्या प्रस्तावास मान्यता दिली आहे. तरी त्या अनुषंगाने निविदा पत्रकात करावयाचा बदल व इतर अनुषंगिक अंतर्भूत करावयाच्या आवश्यक त्या अतिरिक्त अटीबाबतचे Addendum/Common Set of Deviation सोबत जोडले आहे.

३/- निविदा पत्रकामध्ये केलेले बदल (Addendum/Common Set of Deviation) निविदेचा एक भाग म्हणून राहील व तो पूर्व अर्हता पात्र चारही निविदाकारांना लागू राहील.

४/- प्रस्तुत Addendum/Common Set of Deviation व्यतिरिक्त निविदा पत्रकामधील सर्व अटी व शर्तीमध्ये कोणताही बदल नाही.

५/- पूर्व अर्हता पात्र चारही निविदाकारास प्रस्तुत Addendum/Common Set of Deviation पाठवून निविदा सादर करण्याच्या योग्य त्या सुचना देण्यात याव्यात.

६/- पूर्व अर्हता पात्र चारही निविदाकारास स्पष्ट कल्पना द्यावी की, त्यांचा देकार हा Addendum/Common Set of Deviation विचारात घेऊन द्यावा व त्यांचा देकार विनाशर्त राहिल. सशर्त देकार फेटाळण्यात येतील.

७/- पूर्व अर्हता पात्र चार निविदाकारांना Addendum/Common Set of Deviation डाकपोच पावतीने/हस्तबटवडाने विनाविलंब पाठविण्याची व्यवस्था करावी.

स्थळप्रत मु.अ.यांनी मंजूर केली आहे.

सोबत : १. Addendum

२. संदर्भित शासन पत्रांची प्रत

^{२५/६}
मुख्य अभियंता

मुंबई (सा.सां.) प्रादेशिक विभाग

मुंबई कनिष्ठ

प्रत : कार्यकारी अभियंता, सा.सां.विभाग, टाणे यांना माहिती व कार्यवाहीसाठी रवाना.

NAME OF WORK : Four Laning of Chinchoti - Kaman -Anjur Phata to Mankill Road M. S. H No.4 Km.0/00 to 26/425
Tal. Bhiwandi Dist. Thane..

Sr No	Reference to N.I.T.			As appeared in N.I.T.	Addendum / Common set of Deviation.
	Volume No	Page No	Item/Clause / Article/ Condition /Line/Serial No.		
1	2	3	4	5	
1	Volume No.II,	Vol.II Page 64	Volume No.II, Section XV Serial No.24	Additional clause is inserted at Sr.24 of Section XV in Volume II as below. Financial Closure : The Entrepreneur shall at his cost, expenses and risk make such financial arrangement as would be necessary to finance the project and to meet its obligations under this Arrangement in timely manner. The Entrepreneur Shall submit financial closure document to Employer within 120 days from the date of issue of the letter of acceptance. The Notice to proceed with work / the work order shall be issued after financial closure is achieved by the Entrepreneur and accordingly informed to the Employer . If the financial closure is not achieved by Entrepreneur within 120 days the security deposit shall be forfeited.	
2	Volume II	61	Volume II, Section XV, Sr.No.7	Article No.1,Definitions and Interpretation on page No.31 of Volume 1, The Definition of "Equity" remains same as on page 31 of Vol. I Article No.1,Definitions and Interpretation on page No.31 of Section -II of Volume 1, The Definition of "Equity" is Deleted	

Sr No	Reference to N.I.T.			As appeared in N.I.T.	Addendum / Common set of Deviation
	Volume No	Page No	Item/Glause / Article/ Condition /Line/Serial No.		
1		2	3	4	5
3	Vol.II	21	vii) Construction of Toll Plaza	vii) Construction of Toll Plaza :- Existing Toll Plaza at Ch.13/600 near Malodi village shall be demolished. The Concessionaire shall construct New Toll Plaza as per model Toll Plaza booklet published by P.W.D. Govt. of Maharashtra. Reference drawings are provided on Page No.37 to 73 of Volume-IV. The concessionaire shall make necessary arrangements for electrification of Toll Plaza, Water supply, Telephone lines and Computerization at his own cost. The boards are to be installed by the Concessionaire at Toll Station in Bold letters at such location visible to all drivers, consisting of following information: 1) Name of Project 2) Original cost of Project. 3) Entrepreneurs name and address. 4) Govt Notification No. 5) Toll Rates 6) Concessions given by Govt. as per Notification in toll rates 7) Name of concerned P.W. Division. 8) Contact person of the department (Name and Telephone No.) 9) Contact person of the Entrepreneur (Name and Telephone No.) 10) Nearest Police station, distance and telephone No. 11) Nearest Govt. hospital, distance and telephone No. 12) Concession period as per approved tender (from - to)	vii) Construction of Toll Plaza :- Existing Toll Plaza at Ch.13/600 near Malodi village shall be demolished. The Concessionaire shall construct New Toll Plaza as per model Toll Plaza booklet published by P.W.D. Govt. of Maharashtra. Reference drawings are provided on Page No.37 to 73 of Volume-IV. The concessionaire shall make necessary arrangements for electrification of Toll Plaza, Water supply, Telephone lines and Computerization at his own cost. The boards are to be installed by the Concessionaire at Toll Station in Bold letters at such location visible to all drivers, consisting of following information: 1) Name of Project 2) Original cost of Project. 3) Entrepreneurs name and address. 4) Govt Notification No. 5) Toll Rates 6) Concessions given by Govt. as per Notification in toll rates 7) Name of concerned P.W. Division. 8) Contact person of the department (Name and Telephone No.) 9) Contact person of the Entrepreneur (Name and Telephone No.) 10) Nearest Police station, distance and telephone No. 11) Nearest Govt. hospital, distance and telephone No. 12) Concession period as per approved tender (from - to)
4	Annexure -I for Volume. IV	---	Drawing of C.D. Work Fanning	---	Drawing for Fanning of C.D. work is attached herewith.

O.C. Approved by C.E.

[Signature]
For Chief Engineer
Mumbai P.W. Region
Mumbai

सार्वजनिक बांधकाम विभाग,
भंडारालय, मुंबई- ४०० ०३२.
दिनांक : १२.११.२००७

विषय : खाजगीकरणांतर्गत भिखंडी तालुक्यातील चिंचोटी-कामण-
जंभूरफाटा-मानकाली प्रमाण-४, कि.मी.००/०० ते २६/४२५
या रस्त्याचे चौपदरीकरण करणे.

संदर्भ : आपले पत्र क्र.मुअ(मुं)/का-५(१)/५८३८, दिनांक ०७.११.२००७

उपरोक्त निष्पादाबाबत संदर्भित पत्राच्या अनुषंगाने सादर केलेल्या Financial Closure करिता १२० दिवरांच्या मुदतीच्या प्रस्तावास शासनाची मान्यता आहे असे आपणांस कळविण्याचे आदेश आहेत.

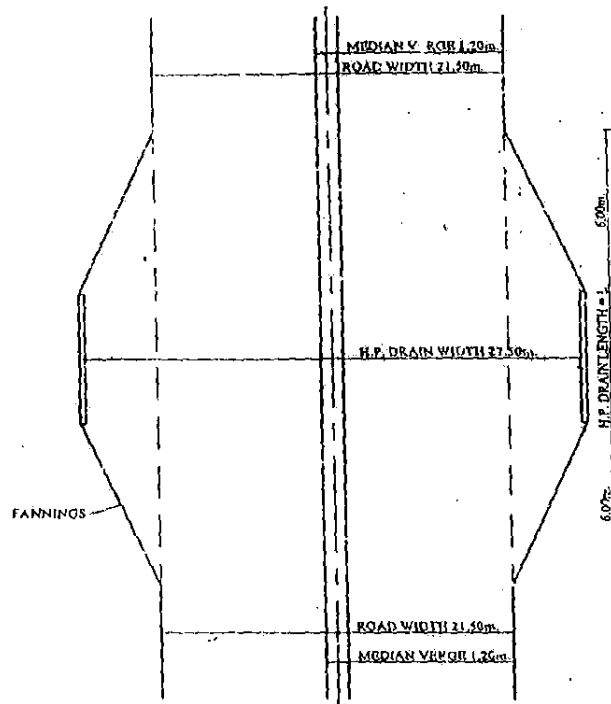
(सतिश त. पुरा)
कायासन अधिकारा

अधौक्षक अभियंता, सार्वजनिक बांधकाम मंडळ, ठाणे.
कार्यकारी अभियंता, सार्वजनिक बांधकाम विभाग, ठाणे.

THAI.
P.W.O. THANG

NOTES:

1. ALL DIMENSIONS ARE IN METRES, EXCEPT OTHERWISE SPECIFIED.
2. THE DIMENSION SHALL NOT BE SCALED FROM THE DRAWING FOLLOW ONLY WRITTEN DIMENSION.
3. THE GIVEN DIMENSIONS ARE FOR INDICATIVE PURPOSE ONLY AND VARIABLE AS PER SITE CONDITIONS.



TYPICAL PLAN FOR H.P. DRAINS (FOR FANNINGS)

NAME OF WORK	FOUR LANE TO CHINCHOTTI - KAMAN - ANJURPHATA - MANKOLI ROAD, M.S.H. - 4, K.M. 000-26/423, TAL. - BHIWANDI, DIST. - THANE (UNDER B.O.T.)	
ITEM	TYPICAL PLAN FOR H.P. DRAINS (FOR FANNINGS)	
Superintending Engineer Thane (P. W.) Circle Thane.	DEPUTY ENGINEER BHIWANDI (P.W.) SUB-DIVISION, BHIWANDI.	EXECUTIVE ENGINEER THANE (P.W.) DIVISION, THANE.
	DESIGNED BY : DATE :	