MAHARASHTRA STATE ROAD DEVELOPMENT CORPORATION LIMITED
MUMBAI

BID DOCUMENT

FOR

FOUR LANING & IMPROVEMENTS OF MUMBAI-PUNE SECTION OF NH-4 (KM. 131/200 TO KM. 20/400)
ON SELF-FINANCE ALONGWITH TOLL COLLECTION AND OPERATION AND MAINTENANCE ON
MUMBAI-PUNE SECTION OF NH-4 AND EXISTING MUMBAI PUNE EXPRESSWAY

VOLUME - V

PROJECT DRAWINGS

For Ideal Road Builders Pvt. Ltd.
MAHARASHTRA STATE ROAD DEVELOPMENT CORPORATION LIMITED
MUMBAI.

BID DOCUMENT

FOR

FOUR LANING & IMPROVEMENTS OF MUMBAI-PUNE SECTION OF NH-4 (KM. 131/200 TO KM. 20/400)
ON SELF-FINANCE ALONGWITH TOLL COLLECTION AND OPERATION AND MAINTENANCE ON
MUMBAI-PUNE SECTION OF NH-4 AND EXISTING MUMBAI-PUNE EXPRESSWAY

VOLUME - V

PROJECT DRAWINGS

ISSUED TO (NAME OFBidDER)

ON DATE D.D. 01.04

ACCOUNTANT

Signature and Designation of
Issuing Officer

EXECUTIVE ENGINEER

MAHARASHTRA STATE
ROAD DEVELOPMENT
CORPORATION LTD.
MUMBAI-36.

For Ideal Road Builders Pvt. Ltd.
TO MUMBAI

SECTION-13

SECTION-12

MEETING POINT OF EXPRESSWAY AT ADOSHI KM-69/100

RAJMACHI POINT KM-72/600

KUSGAON CONNECTOR KM-60/400

SECTION-11

ROAD IMPROVEMENT

ROAD IMPROVEMENT

ROAD IMPROVEMENT

MEETING POINT OF EXPRESSWAY AT ADOSHI KM-74/200

KHOPOLI KM-79/200

KONCETRING IN FRONT OF LONAVALA ST STAND (KM-84/000 TO KM-93/000)

ROAD IMPROVEMENT

For Ideal Road Builder

CLIENT:
M.S.R.D.C
MAHARASHTRA STATE ROAD DEVELOPMENT CORPORATION LTD.
MUMBAI-400038

NAME OF WORK
FOUR LANE & IMPROVEMENTS OF MUMBAI-PUNE SECTION OF NH-4 (KM-121/200 TO TO KM-20/400 ) ON SELF - FINANCE ALONGWITH TOLL COLLECTION AND OPERATION AND MAINTENANCE ON MUMBAI-PUNE SECTION OF NH-4 AND EXISTING MUMBAI-PUNE EXPRESSWAY.

LEGEND

EXISTING NH-4
MAJOR MINOR BRIDGEROB
PROPOSED WIDENING
CONCRETE
MAJOR RIVER

DESCRIPTION

STRIP PLAN (SECTION- 11, 12 & 13)

DRAWING NO

NH4/STRIP PLAN -03

DATE

DECEMBER 2003

SCALE

N.T.S.
TYPICAL CROSS-SECTION FOR ROAD IMPROVEMENT FOR EXISTING TWO LANE

CLIENT: M.S.R.D.C
maharashtra state road development corporation LTD
shevan sea road

NAME OF WORK: FOUR LANEING & IMPROVEMENTS OF MUMBAI-PUNE SECTION OF NH-4 (KM 131/200 TO 204/40) ON SELF - FINANCE ALONGWITH TOLL COLLECTION AND OPERATION AND MAINTENANCE ON MUMBAI-PUNE SECTION OF NH-4 AND EXISTING MUMBAI-PUNE EXPRESSWAY.

LEGEND
- RC - (70/110)
- OON - (60/110)
- SYG - (20/100)
- SYG/SHE (50/100)
- SHOULDER

DESCRIPTION: CROSS-SECTION OF NH-4 ROAD ROAD IMPROVEMENT

DRAWING NO: NH4/CROSS-SECTION/02

DATE: DECEMBER 2003

SCALE: 1:100

NOTE: ALL DIMENSIONS ARE IN MM.

For Ideal Road Builders Pvt.
TYPICAL CROSS-SECTION FOR ONE SIDE WIDENING IN FILLING
TYPICAL CROSS-SECTION FOR ONE SIDE WIDENING WITH SERVICE ROADS ON BOTH SIDE

DETAILS OF BUILT UP DRAINS WITH COVER

NOTE: ALL DIMENSIONS ARE IN MM.
TYPICAL CROSS-SECTION FOR WIDENING ON ONE SIDE IN ROCK CUTTING - KAMSHET GHAT SECTION

CLIENT: MSRDC
NAME OF WORK: FOUR LANEING & IMPROVEMENTS OF MUMBAI-PUNE SECTION OF NH-4 (KM. 131/200 TO KM.204/60) ON SELF - FINANCE ALONGWITH TOLL COLLECTION AND OPERATION AND MAINTENANCE ON MUMBAI-PUNE SECTION OF NH-4 AND EXISTING MUMBAI-PUNE EXPRESSWAY

NOTE: ALL DIMENSIONS ARE IN MM.

DESCRIPTION: CROSS-SECTION OF NH-4 IN KAMSHET GHAT SECTION
DRAWING NO: NH4/CROSS-SECTION007
DATE: DECEMBER 2003
SCALE: 1:100
TYPICAL CROSS-SECTION WITH BUILT UP DRAINS FOR CONCENTRIC WIDENING

NOTE: ALL DIMENSIONS ARE MM.

CLIENT: MSRDC

NAME OF WORK: FOUR LANEING & IMPROVEMENTS OF MUMBAI-PUNE SECTION OF NH-4 (KM 13/120 TO KM 20/400) ON SELF-FINANCE ALONGWITH TOLL COLLECTION AND OPERATION AND MAINTENANCE ON MUMBAI-PUNE SECTION OF NH-4 AND EXISTING MUMBAI-PUNE EXPRESSWAY.

LEGEND:
- BC (300MM)
- PAVED SHOULDER
- DEM (75MM)
- BM FOR CAMBER CORRECTION
- EXISTING CRUST BT (150MM) AVERAGE
- EXISTING CRUST W&B + GSB (400MM) AVERAGE
- W&B (300MM)
- GSB (300MM)

DESCRIPTION: CROSS-SECTION OF NH-4 WITH BUILTUP DRAINS FOR CONCENTRIC WIDENING

DRAWING NO: NH/CROSS-SECTION09
DATE: DECEMBER 2003
TYPICAL CROSS-SECTION OF MPEW - ON EMBANKMENT

CLIENT: M.S.R.D.C
NAME OF WORK: FOUR LANING & IMPROVEMENTS OF MUMBAI-PUNE SECTION OF NH4 (Km 131.200 TO KM 204.00) ON SELF-FINANCE ALONGSIDE TOLL COLLECTION AND OPERATION AND MAINTENANCE ON MUMBAI-PUNE SECTION OF NH4 AND EXISTING MUMBAI-PUNE EXPRESSWAY

LEGEND
- PAVEMENT CONCRETE
- DRY LEAN CONCRETE SUB-BASE
- WET MIX CONCRETE
- GRANULAR SUB-BASE

DESCRIPTION: CROSS SECTION OF EXISTING MPEW ON EMBANKMENT
DRAWING NO: MPEWCROSS-SECTION02
DATE: DECEMBER 2003
SCALE: N.T.S

For Ideal Road Builders Pvt.
TYPICAL CROSS-SECTION - IN ROCK CUTTING
EXISTING TUNNEL PROFILE FOR SHOTCREATED SECTION OF MPEW

CLIENT: M.S.R.D.C.
MAHARASHTRA STATE ROAD DEVELOPMENT CORPORATION LTD.

NAME OF WORK: FOUR LANNING & IMPROVEMENTS OF MUMBAI-PUNE SECTION OF NH4 (KM 13/000 TO KM 20/400) ON SELF-FINANCE ALONG WITH TOLL COLLECTION AND OPERATION AND MAINTENANCE ON MUMBAI-PUNE SECTION OF NH4 AND EXISTING MUMBAI-PUNE EXPRESSWAY.

DESCRIPTION: EXISTING TUNNEL PROFILE FOR SHOTCREATED SECTION OF MPEW

DRAWING NO: MPEW/CROSS-SECTION/05

DATE: DECEMBER 2003

SCALE: N.T.S

EXCAVATION AREA: 147,667 SQ.M & OUTSIDE PERIMETER: 31,423M.
FINISHED AREA: 130,969 SQ.M

FINISHED ROAD LEVEL: 2.846
FORMATION LEVEL: 2.78
MIN. EXTN LINE: 5.5
POG M40: 2%
DLC SUB BASE: DETAILS OF ROAD
FINISHED ROAD LEVEL: 0.15
FORMATION LEVEL: 0.25
DETAILS OF DRAIN

For Ideal Road Builders Pvt. L
NOTE: THE PROPOSED R.T.L. IS INDICATIVE & MAY VARY AFTER DETAILED DESIGN.

NAME OF WORK
FOUR LAKING & IMPROVEMENTS OF MUMBAI-PUNE SECTION OF NH-4 (KM 132/292 TO KM 204/400) ON SELF - FINANCE ALONG WITH TOLL COLLECTION AND OPERATION AND MAINTENANCE ON MUMBAI-PUNE SECTION OF NH-4 AND EXISTING MUMBAI-PUNE EXPRESSWAY.

LEGEND
- RAILWAY LINE
- COMPOUND WALL
- TELEPHONE LINES
- FENCING
- EXISTING SIGN BOARD
- DIRECTIONAL SIGN
- TRAFFIC ISLAND

DESCRIPTION
WIDENING SCHEME AT KM 27/200 TO 30/180 KM FOR SEPARATE TWO LANE CARRIAGE WAY

DRAWING NO
NH4/PLANL-SECTION001

DATE
DECEMBER 2003

CLIENT
M.S.R.D.C
MADRAS REGIONAL & URBAN DEVELOPMENT CORPORATION LTD.
CLIENT: M.S.R.D.C
MAHARASHTRA STATE ROAD DEVELOPMENT CORPORATION LTD.
NEPEAN SEA ROAD
MUMBAI-400036

NAME OF WORK:
FOUR LANEING & IMPROVEMENTS OF MUMBAI-PUNE SECTION OF NH-4 (KM. 131/200 TO KM 22/400) ON SELF-FINANCE ALONG WITH TOLL COLLECTION AND OPERATION AND MAINTENANCE ON MUMBAI-PUNE SECTION OF NS-4 AND EXISTING MUMBAI-PUNE EXPRESSWAY.

LEGEND

DESCRIPTION:
WIDENING SCHEME FOR KHALAPUR CONNECTOR

DRAWING NO.
NH4/KHALAPUR/CONNECTOR/03

DATE
DECEMBER 2003

SCALE
1:2000

NORTH
### Table: SURVEY LEVEL

<table>
<thead>
<tr>
<th>Component</th>
<th>Datum 174.00</th>
<th>0.00</th>
<th>1.25</th>
<th>2.50</th>
<th>3.75</th>
<th>5.00</th>
<th>6.25</th>
<th>7.50</th>
<th>8.75</th>
<th>10.00</th>
<th>11.25</th>
<th>12.50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Road Level</td>
<td>0.00</td>
<td>1.25</td>
<td>2.50</td>
<td>3.75</td>
<td>5.00</td>
<td>6.25</td>
<td>7.50</td>
<td>8.75</td>
<td>10.00</td>
<td>11.25</td>
<td>12.50</td>
<td></td>
</tr>
<tr>
<td>Ground Level</td>
<td>0.00</td>
<td>1.25</td>
<td>2.50</td>
<td>3.75</td>
<td>5.00</td>
<td>6.25</td>
<td>7.50</td>
<td>8.75</td>
<td>10.00</td>
<td>11.25</td>
<td>12.50</td>
<td></td>
</tr>
<tr>
<td>CHAINAGE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### LEGEND

- **ROAD WIDENING**
- **STRUCTURE**
- **TRAFFIC ISLANDS**
- **FENCING**
- **ELECTRIC FENCE**
- **ROADMARK STONES**
- **FREEWAY**
- **AT LINE**
- **NA STONE**
- **TELEPHONE**
- **WIRE**
- **WIREMOUNT**
- **WIREMOUNT stn**
- **WIREMOUNT**

### NOTE

The proposed R.T.L. is indicative and may vary after detailed design.

**Client:** MSRDC (Maharashtra State Road Development Corporation Ltd.)

**Name of Work:** Four LANING & IMPROVEMENTS OF MUMBAI-PUNE SECTION OF N-4 (KM 131/200 TO KM 204/00) ON SSTF - FINANCE ALONG WITH TOLL COLLECTION AND OPERATION AND MAINTENANCE ON MUMBAI-PUNE SECTION OF N-4 AND EXISTING MUMBAI-PUNE EXPRESSWAY.

**Description:** Widening scheme at KM 32/000 to 32/630 km for separate two lane carriageway.

**Drawing No.:** NH4PLANAL-SECTION008

**Date:** December 2003
### NAME OF WORK
FOUR LANE & IMPROVEMENTS OF MUMBAI-PUNE SECTION OF NH4 (KM. 131/200 TO KM. 204/400) ON SELF-FINANCE ALONG WITH TOLL COLLECTION AND OPERATION AND MAINTENANCE ON MUMBAI-PUNE SECTION OF NH4 AND EXISTING MUMBAI-PUNE EXPRESSWAY.

### LEGEND
- **ROAD WORKING**
- **COMPOUND WALL**
- **ROAD PB**
- **STRUCTURE**
- **ROAD PB**
- **TELEPHONE LINES**
- **EXISTING SRN PB**
- **EXISTING PB**
- **BOUNDARY WALL**
- **ELECTRIC POLE**
- **TELEPHONE POLE**

### TABLE
<table>
<thead>
<tr>
<th>ROAD LEVEL</th>
<th>GROUND LEVEL</th>
<th>CHAINAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Datum: 1493.00</td>
</tr>
</tbody>
</table>

### NOTE
THE PROPOSED R.T.L. IS INDICATIVE & MAY VARY AFTER DETAILED DESIGN.

### DRAWING NO
NH4/PLAN/SECTION/23

### DATE
DECEMBER 2003

### SCALE
1:2000

### WEST
For Ideal Road Builders Pvt.
/client: M.S.R.D.C
maharashtra state road development corporation ltd.
nepean-sea road
mumbai-400036

name of work:
four-laning & improvements of mumbai-pune section of nh4 (km. 131/000 to km. 204/000) on self-finance along with toll collection and operation and maintenance of mumbai-pune section of nh4 and existing mumbai-pune expressway.

legend:
- road widening
- structure
- telephone lines
- traffic island
- drainage:
- v
- tree
- office
- home
- electric pole

description:
widening scheme at km 46/000 to 47/000 to form separate two lane carriage way

drawing no:
nh4/plan/section/23a

date:
december 2003
NOTICE: THE PROPOSED R.T.L. IS INDICATIVE & MAY VARY AFTER DETAILED DESIGN.

CLIENT: M.S.R.D.C
MANIPAL STATE ROAD DEVELOPMENT CORPORATION LTD.
HEADQUARTERS ROAD
MUMBAI-400026

NAME OF WORK: FOUR LANEING & IMPROVEMENTS OF MUMBAI-PUNE SECTION OF NH 4 (KM. 131/000 TO KM. 154/000) ON SELF-FINANCE, ALONG WITH TOLL COLLECTION AND OPERATION AND MAINTENANCE ON MUMBAI-PUNE SECTION OF NH 4 AND EXISTING MUMBAI-PUNE EVADES WAY.

LEGEND: DRAWING NO. NH/PLANNING-SECTION/063
DESCRIPTION: WIDENING SCHEME AT KM 47/000 TO 47/000 TO FOR SEPERATE TWO LANE CARRIAGE WAY
DATE: DECEMBER 2003
PLAN
SCALE: 1:2000

GROUND LEVEL
ROAD LEVEL

NOTE: THE PROPOSED R.T.L. IS INDICATIVE & MAY VARY AFTER DETAILED DESIGN.

CLIENT:
M.S.R.D.C
MAHARASHTRA STATE ROAD DEVELOPMENT CORPORATION LTD.

NAME OF WORK:
FOUR LANE & IMPROVEMENTS OF MUMBAI-PUNE SECTION OF NH-4 (KM. 131/200 TO KM. 204/400) ON SELF-FINANCE ALONG WITH TOLL COLLECTION AND OPERATION AND MAINTENANCE OF MUMBAI-PUNE SECTION OF NH-4 AND EXISTING MUMBAI-PUNE EXPRESSWAY.

LEGEND

DESCRIPTION
WIDENING SCHEME AT KM 64/450 TO 65/440 KM FOR SEPERATE TWO LANE CARRIAGE WAY

DRAWING NO.
NH4:PLAN&-SECTION036

DATE
DECEMBER 2003