General:

- 1. The Notes in this drawing shall be read in conjunction with all relevant drawings.
- 2. The Contractor shall verify all Chainages, Reduced Levels, Co-ordinates and Dimensions before work starts. In case of any discrepancy, the matter shall be brought to the notice of the Engineer-in-Charge.
- All the bridges are designed to carry worst effects of the following Road Live Loads as per IRC 6:2000
- Safe bearing capacity considered in designing foundations for pier/abutments resting on rock/soil is to be verified at site by the Contractor before e in consultation with the Engineer—in—Charge. execution
- . П In case any localised soft soil deposit is noted at the founding level for foundations resting on rock, the same shall be excavated and replaced by M15 grade concrete.
- 6 In case of foundations resting on rock, the annular space around the footing shall be filled back with concrete of M15 Grade mix upto the top of rock.
- 7. Wearing coat shall comprise of 50mm BC & 12mm Mastic with water proofing membrane (chemical compound)
- œ Moderate conditions of exposure have been considered in the design of these bridges/flyovers.
- 9. All dimensions are in millimetres and levels are in metres unless otherwise specified. Only written dimensions shall be followed . No drawing shall be scaled.

Concrete

- 1. Concrete grade for varies elements shall be design mix and shall have minimum 28 days characteristics strength on shall have minimum 28 d 150mm cubes as follows:
- 9 <u>a</u> PSC voided slab PSC box type super structure Precast/Cast-in-situ PSC Precast Pretensioned | girders M50 M50
- (e) <u>a</u> \bigcirc Sub structure main flyover Precast parapet/edge/kerb Pedestal of bearings M45 M30
- $\widehat{\mathbb{T}}$ Pile/pile cap Foundation main flyover pier/pier cap M35 M30
- $\overline{\Xi}$ (g) ramp portion Abutments and substrucutre Foundation ramp portion Pile/pile cap M30 M35
- Median M30 M35
- Sub structure ROB portion pier/pier cap
- 3. High Strength Ordinary Portland Cement conforming to IS: 12269 and IS: 8112 or Ordinary Portland Cement conforming to IS:269 capable of achieving the required design concrete strength shall only be used. To improve workability of concrete, admixtures conforming to IS:6925 and IS:9103 may be permitted subject to satisfactory proven use. Admixtures generating hydrogen, nitrogen should not be used.

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- 4. Minimum cement content & maximum water cement ratio in concrete shall be as per Table 4 of IRC:21-2000 (Latest edition) for "Moderate Conditions of Exposure".
- $\dot{\Omega}$ Nominal maximum size of coarse aggregates for all RCC works shall be 20mm. ó be used

R-0 REV

16.08.10

FOR TENDER PURPOSE

DESCRIPTION OF REVISIONS

INTIALS

DATE

PROJECT MANAGEMENT CONSULTANT: C.V.KAND CONSULTANTS PRIVATE LIMITED 201, 202 SAI EMPIRE BANER, PUNE—411045, PHONE 020 66294444

1. All reinforcing steel shall be IS:1786 (except for mesh reinforcement which MS Bars Grade Designation S 240 conforming Grade Designation Fe 500 conforming to Part 1 Mild Steel). shall be :o IS:432

Reinforcement:

- Bending of reinforcement bars shall be as per IS:2502.
- in such cases : possible. reinforcement bars Laps may be provided, if unavoidable. shall be avoided as However, far as
- (a) minimum lap length of clause 304.6.6 of IRC: 21 - 2000.reinforcement shall be as per
- (b) not more than 50% of reinforcement bars laped at any one section. shall be
- (c) for closely spaced bars lapping may be avoided by
- providing suitable type of mechanical splicing.
- Minimum bond length for reinforced bars shall clause 304.6.2 of IRC 21—2000. be as per
- 5 Clear cover to any reinforcing steel closest to concrete face shall be 40mm in case of superstructures and 50mm in case of substructures. Clear cover shall be 75mm in case of foundations. concrete face
- Welding of reinforcement bars shall not be permitted.
- Supporting chairs of 12mm diameter shall be suitable intervals as per IS:2502. provided at
- Full cover shall be maintained at grooves and architectural finishes to the concrete surface. Full cover shall be maintained at otherwise
- 9. Type of reinforcement is denoted by the following symbols in the drawings :
- the drawings :
- Mild Steel Bars Fe 500
- Spacing given for all reinforcement is perpendicular to bars unless otherwise shown on drawings.

Water

Water to be used in concreting and curing shall to clause 302.4 of IRC:21—2000 conform

Material Specifications :

Material specifications and workmanship shall be accordance with MORTH Specifications for Road Works -2001 and Technical Specifications as spelt out in the Tender Documents. ૹ ⊇. Bridge

Workmanship Detailing

- All sharp edges of concrete shall be chamfered (10mmx10mm)
- Form work details shall be submitted by the Contractor for the approval and shall be tested in accordance with the specifications.

3. Construction joint

- (i) The locations and provision of construction joints shall be approved by the Engineer—in—Charge. The concreting operation shall be carried out continuously up to the construction joint.
- \equiv The preparation of construction joint shall conform to Appendix 1700/I of MOST's specifications for Road &Bridge Works Fourth Revision—2001, (Rerint: September2002).

4. Expansion joints

- (i) The strip seal type expansions joints shall be procured only from approved manufacturers as per the stipulations of the tender document.
- (ii) The working drawings for expansions joints shall be submitted by the Contractor / Manufacturer for approval prior to procurement.
- (iii) Manufacturer's representatives shall be available at site at the time of, positioning of the embedded parts and installation of expansion joints. shall be available at site

Abbreviations:

	HFL	-	籽	SE	유	RC	P
1	I	1		1		1	
LBL — Lowest Bed Level	 High Flood Level 	Тор	Bearing Pad	Super Elevation	Chainage	Reinforced Concrete	Reduced Level
LWL -	₩.	_	FRL -	EGL -	ZF I	BF -	뛰 ·
LWL — Low Water Level	- Bottom	- Length Varies	_ — Finished Road Level	 Existing Ground Level 	- Near Face	- Both Faces	- Earth Face



CLIENT:

PIMP RI CHINCHWAD MUNICIPAL CORPORATION

PROJECT: Design and Construction of Bridge on Pawana River, Flyover/Viaduct and ROB with Approaches & Ramps on Kalewadi Phata to Dehu Alandi Road TITLE: CHNER AI NOTES DRG.NO. PCMC/KALEWADI/GN/0: REVISION NO: RO DATE:16-08-1 PRAWN BY(A) DESIGN(B) CHECKED (C) APPROVI
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PURPOSE

TENDER FQR