Draft Environmental Impact Assessment

Project Number: 43253-026 June 2018

India: Karnataka Integrated and Sustainable Water Resources Management Investment Program – Project 2

Vijayanagara Channels

Annex 3 (Part 3)

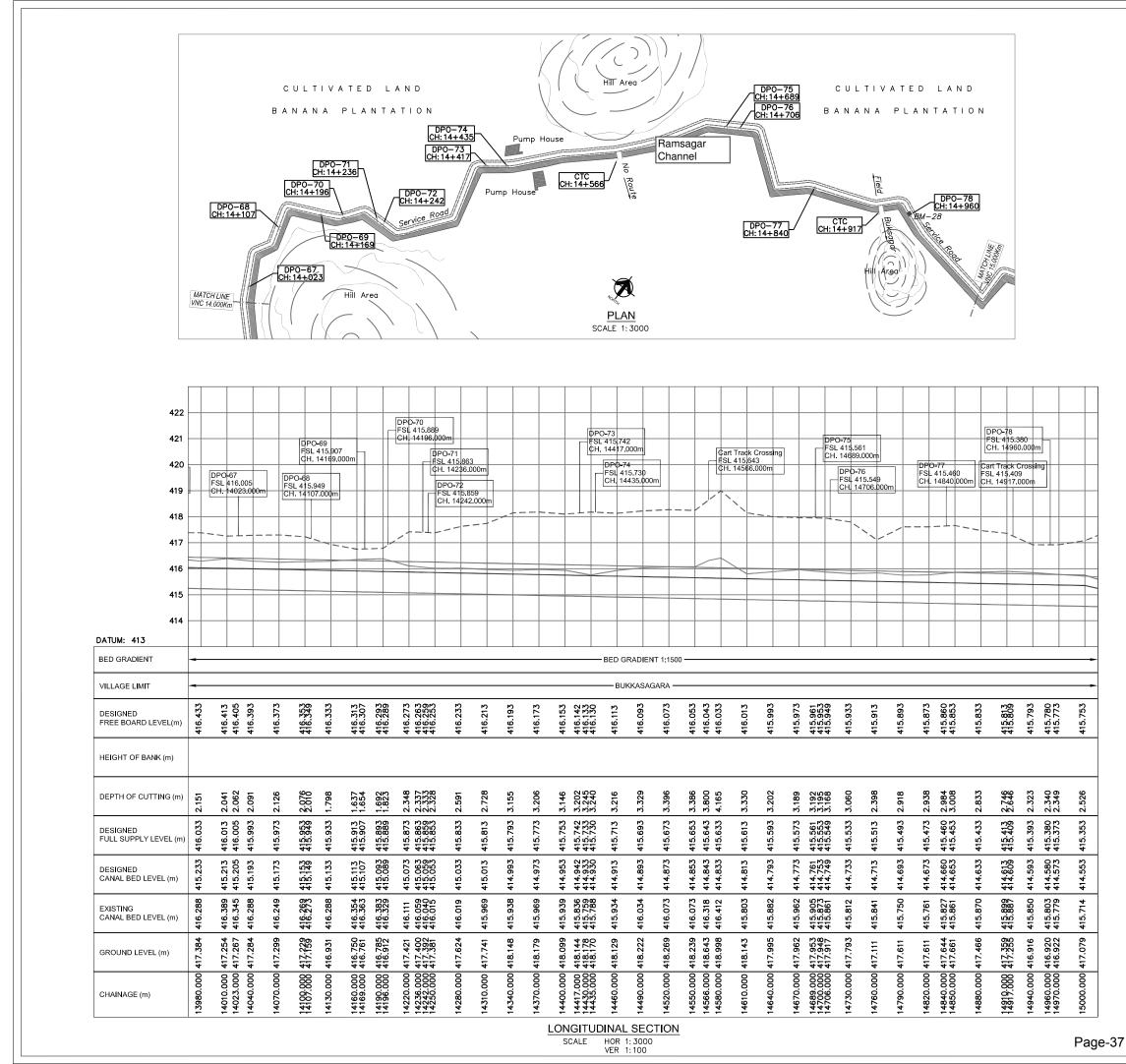
Prepared by the Karnataka Neeravari Nigam Limited for the State Government of Karnataka and the Asian Development Bank.

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Annexure 3

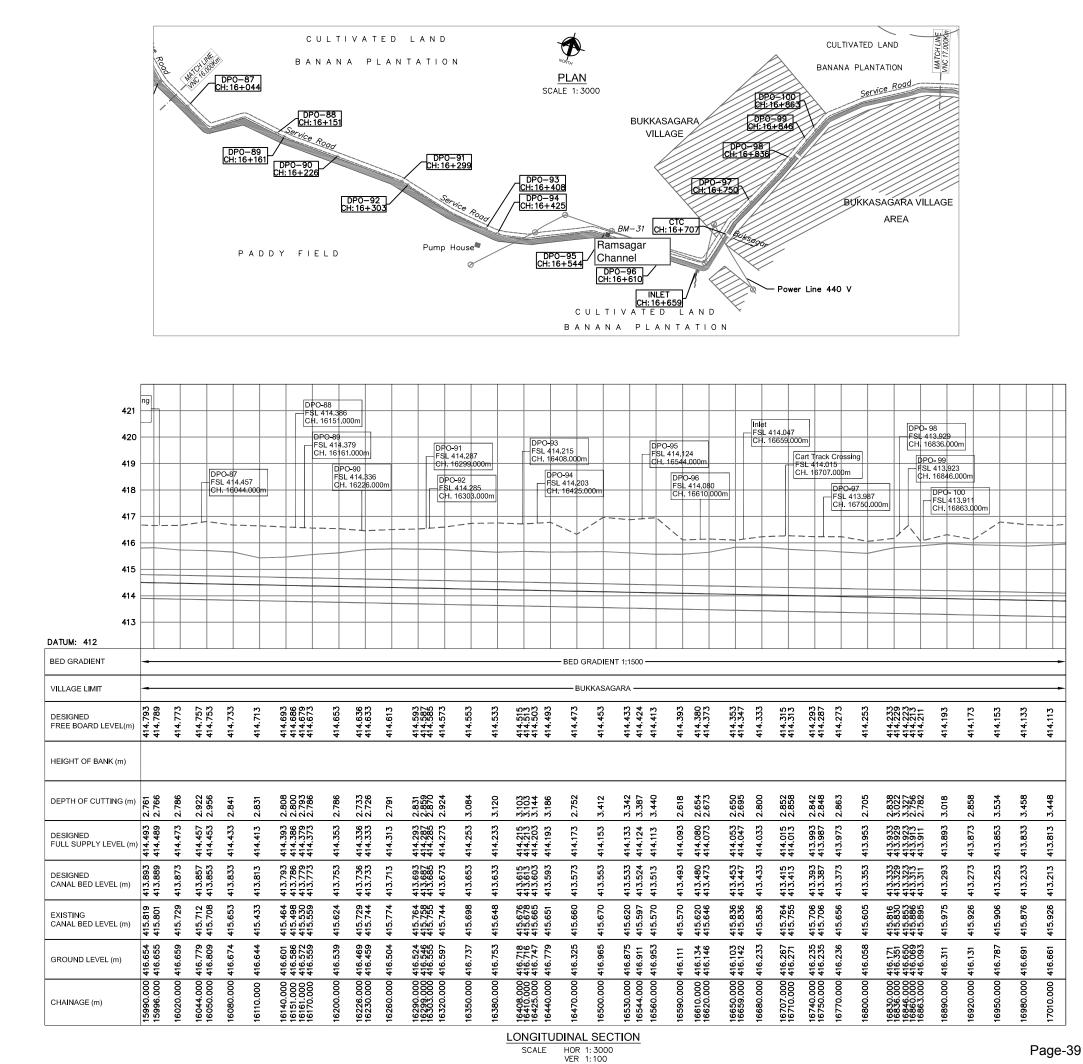
STRUCTURES UNDERGOING REHABILITATION AND TYPICAL DRAWINGS



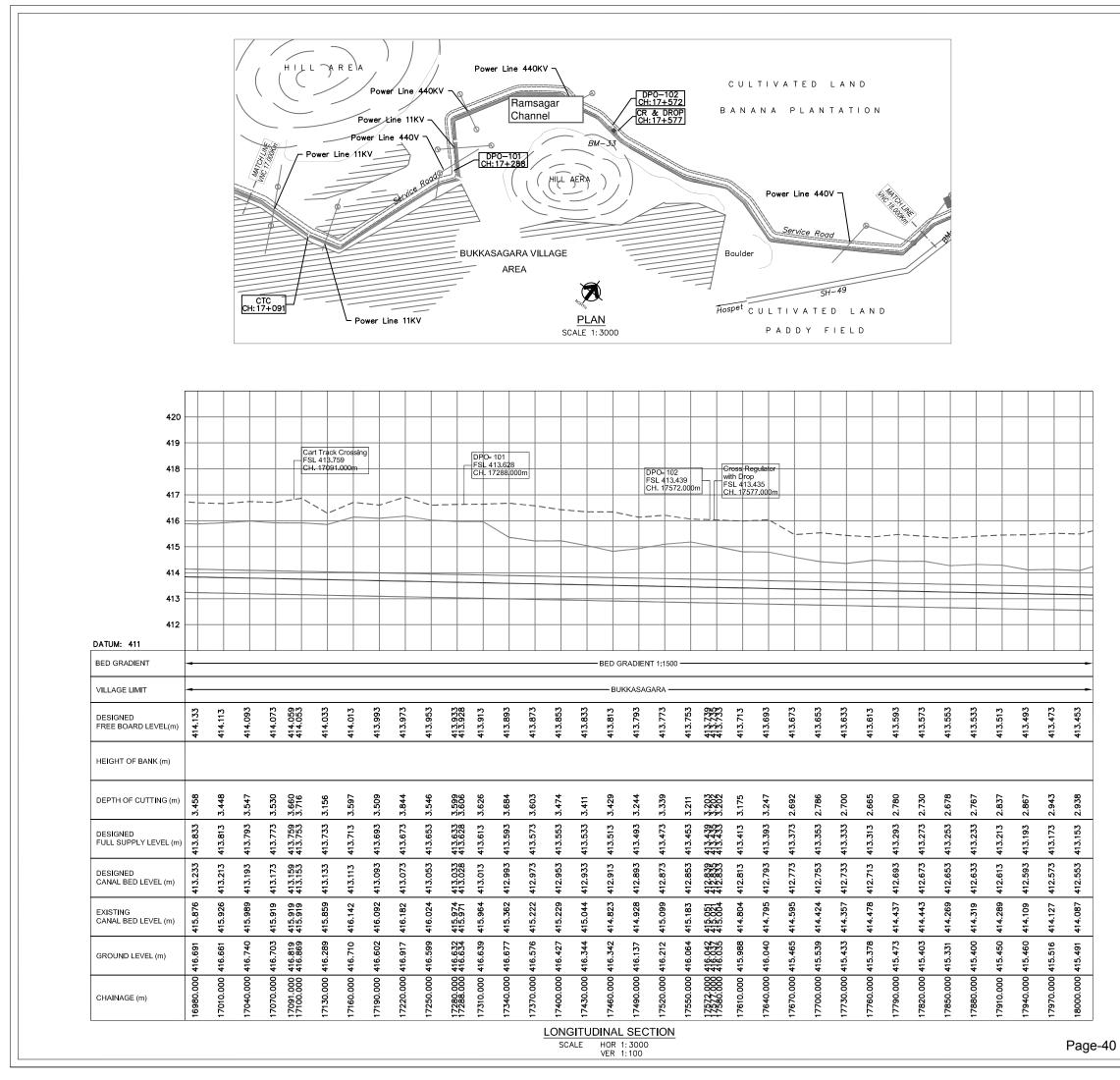
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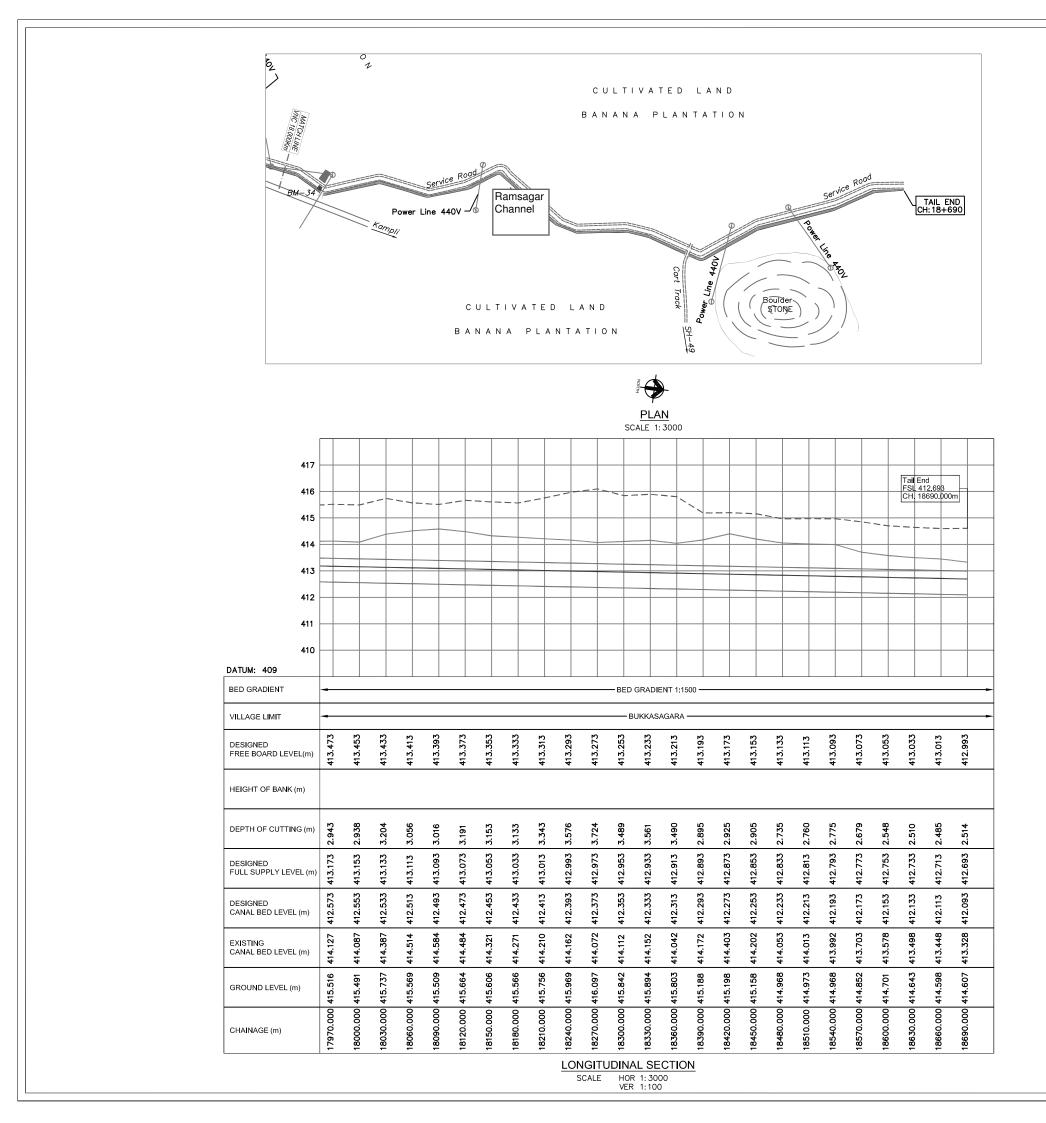
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9 VELOCITY(m/s) 0.652 10 RUGOSITY COEFFICIENT (n) 0.018 LIST OF STRUCTURES No. Type of Structure Chalmage U/S 'm' U/S 'm' <td <="" colspan="2" t<="" td=""><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td></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>			_									-	
Image: Display Coefficient (n) 0.018 LIST OF STRUCTURES No. Type of Structure Chalmage US "m" US "MUS TILE 0 For Approval 0 For Approval 10 For Approval 110 Cent Track Crossing 15996 413.889 413.889 414.489 414.489 1111 Consultant KARNATAKA NEERAVARI NIGAM LIMITI (A GOVT. OF KARNATAKA UNDERTAKING) BANGALORE - 560 001 Consultant E I Technologies Pvt. Ltd., (S0 9001 : 2008 Certified) # 1149, 26th Main,		_									-			
No. Type of Structure Chalmage C.B.L F.S.L 117 Direct Pipe Outlet-79 15145 414.457 144.457 414.50 DiS 'm' U/S 'm' D/S 'm'														
Rev. Description. Date. Drw. Pre. Chk. CLIENT KARNATAKA NEERAVARI NIGAM LIMITI (A GOVT. OF KARNATAKA UNDERTAKING) BANGALORE - 560 001 CONSULTANT E I Technologies Pvt. Ltd., (ISO 9001 : 2008 Certified) # 1149, 26th Main, Jayanagar 4th 'T' Block, Bengaluru-560 041, India. Ph.+91.80.40914714, Fax: +91.80.26650912 info@eitech.in.www.eitech.in PROJECT TITLE MODERNISATION OF VIJAYANAGARA CHANNE IN TUNGABHADRA PROJECT DRAWING TITLE PLAN AND LONGITUDINAL SECTION OF TURTHA CHANNEL (15+000 Km to 16+000 Km)	7 0. 3 0. 2 0. 7 0. 3 0. 3 0. 3 0. 3 0. 3 0. 7 0.	D/S "m" 415.057 414.926 414.872 414.807 414.715 414.643 414.559	U/S "m" 415.057 4 414.926 4 414.872 4 414.807 4 414.807 4 414.507 4 414.507 4 414.507 4	457 4 326 4 272 4 207 4 115 4 043 4 959 4 907 4	D/S 414.4 414.2 414.2 414.2 414.1 414.1 414.1 413.9 413.9	U/S "m" 414.457 414.326 414.272 414.207 414.115 414.043 413.959 413.907	145 341 422 520 658 766 892 970	9 0 1 2 3 4 5 6	let-79 let-80 let-81 let-82 let-83 let-84 let-85 let-85		Pipe Pipe Pipe Pipe Pipe Pipe Pipe	Direct Direct Direct Direct Direct Direct Direct		
CONSULTANT E I Technologies Pvt. Ltd., (ISO 9001 : 2008 Certified) # 1149, 26th Main, Jayanagar 4th 'T' Block, Bengaluru–560 041, India. Ph.+91.80.40914714, Fax:+91.80.26650912 info@eitech.in•www.eitech.in PROJECT TITLE MODERNISATION OF VIJAYANAGARA CHANNE IN TUNGABHADRA PROJECT DRAWING TITLE PLAN AND LONGITUDINAL SECTION OF TURTHA CHANNEL (15+000 Km to 16+000 Km)	ED	MITE	GAM LII DERTAK		ARI \KA	RNATA	n. NEI KAI	K/	Descr ATA OVT					
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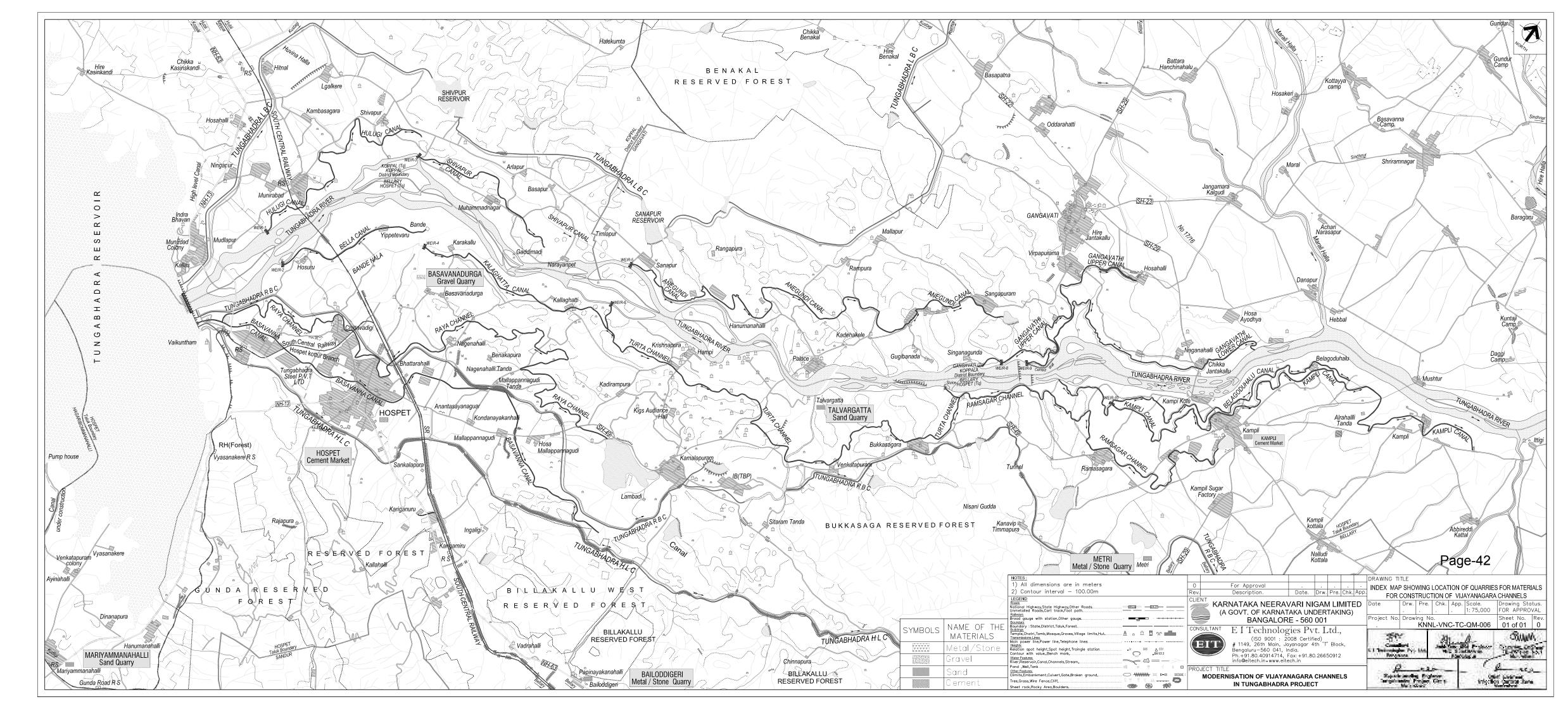
NOTES:									
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Railway wi	ith KM	Stone: Broad	gauge; Ot	her gauges	6.			70	Ļ
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							REACH in 'm'		
	No.				[6000-1700	0m	
	1			GE(CUMECS) GE(CUMECS)			0.739		
	3	BE	D WIDTH(m	ı)			0.7		
	4		SUPPLY DI E SLOPE(H				0.6	-	
	6	TOTAL	FREE BO	ARD(m)			0.3		
	7		FREE BO				0.3	-	
	9	VE	LOCITY(m/	s)			0.692		
	10	KUGOSI	TY COEFFI	ulini (n)			0.018		
			LIST OF	STRUCTU					_
No.	Type of	Structure	Chainage	C U/S "m"	.B.L D/S	"m"	F. U/S "m"	S.L D/S "m"	ľ
		Outlet-87	16044	413.857	413.	857	414.457	414.457	ľ
		Outlet-88 Outlet-89	16151 16161	413.786 413.779	413. 413.	_	414.386 414.379	414.386 414.379	
		Outlet-90	16226	413.736			414.336	414.336	
		Outlet-91	16299	413.687			414.287	414.287 414.285	
		Outlet-92 Outlet-93	16303 16408	413.685 413.615	413. 413.		414.285	414.285	1
133 Direc	t Pipe	Outlet-94	16425	413.603	413.	603	414.203	414.203	ŀ
		Outlet-95 Outlet-96	16544 16610	413.524 413.480			414.124 414.080	414.124 414.080	-
136 Inlet	T	0	16659	413.447	413.			414.047	ľ
137 Cart 138 Direc		Crossing Outlet-97	16707 16750	413.415 413.387	413. 413.		414.015 413.987	414.015 413.987	ļ
139 Direc	t Pipe	Outlet-98	16836	413.329	413.	329	413.929	413.929	1
140 Direc	t Pipe	Outlet-99 Outlet-100	16846 16863	413.323 413.311	413. 413.		413.923 413.911	413.923 413.911	+
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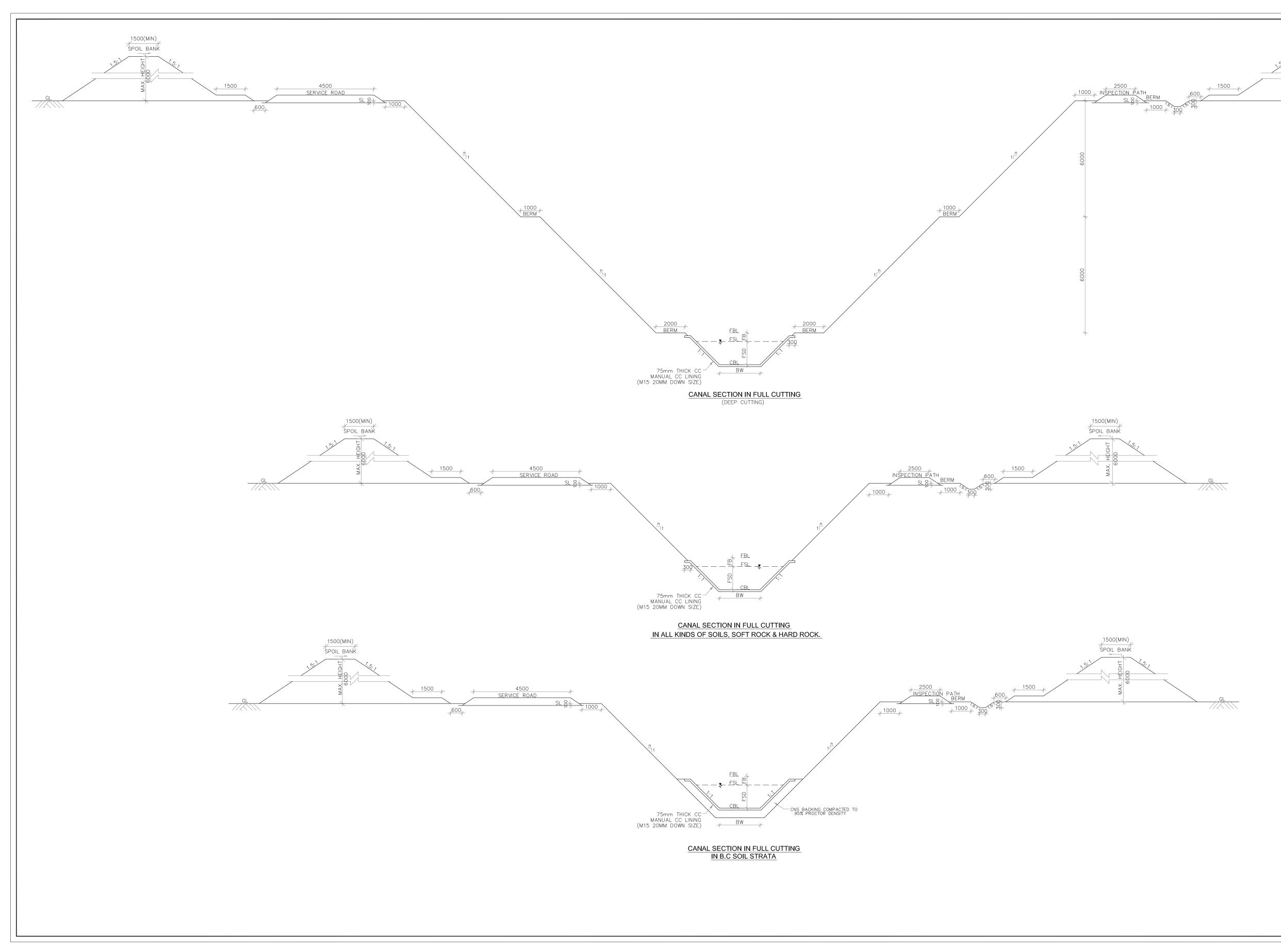


NOTES: 01. ALL LEVELS AND CHAINA				
01. ALL LEVELS AND CHAINA				
UNLESS OTHERWISE SPEC	GES ARE IN METER	S		
02. DO NOT SCALE THE DRA	WING			
LEGENDS			SYM	BOL
Compound wall. Wire fence. Cu	ultivation limit.		—— —×	*
Pylon.Electric Pole.Transformer Power Line	r.Telegraph/Telephor	ne line.	🖾 🖉 🤇	00 • • • • • • •
Roads, Road centreline, Canal	, Streams			
Railway with KM Stone: Broad	l gauge;Other gauge	es.	75	70
Building: Permanent; Temporar	y;Under constructio	n.Village		
Bridges with piers.Culvert.KM p	pillar.Sub—KM pillar.		السلا	 I ⊳¢u
Lamp post. Well: Lined; Unlined; Tube; Bore.Pu	ump House.Temple.			
Mosque.ldgah.	· ·			
Embankment.Cutting.Quarry.He	dge.		A	C B nunl'l
Field bundGrass.Bamboo.			—— Y M	<u>%</u>]][
Kilometer Stone.Graveyard.Sign	n Boara. Gate			
Ground Level Existing Canal bed level				
Proposed Canal bed level				
Proposed Full supply level				
Proposed Free board level				
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	id centreline, Ca h KM Stone: Bri	oad gauge;Other gauges.	75 70
-		orary;Under construction.Villa	
Lamp post.		M pillar.Sub-KM pillar.	
Mosque.ldg	ah.	e.Pump House.Temple.	
	nt.Cutting.Quarry .Grass.Bamboo.	.Hedge.	
Kilometer S	Stone.Graveyard.S	Sign Board. Gate	
Ground Lev Existing Ca	rel Inal bed level		
	Canal bed level		
	full supply level free board level		
	2 DESI 3 4 F	HYDRAULIC PARTICU CANAL DETAILS JIRED DISCHARGE(CUMECS) ORED DISCHARGE(CUMECS) BED WIDTH(m) ULL SUPPLY DEPTH(m)	REACH in 'm' CH: 18000-18692m 0.739 0.776 0.7 0.6
	5 6 T	SIDE SLOPE(H: V) TOTAL FREE BOARD(m)	1.5:1 0.3
	7 L 8	INED FREE BOARD(m) BED GRADIENT	0.3 1:1500
	9 10 RU	VELOCITY(m/s) IGOSITY COEFFICIENT (n)	0.692
	ÿpe of Structure	LIST OF STRUCTURES Chainage U/S "m" D// 18690 412.093 412	F.S.L
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1500(MIN) SPOIL BANK

NOTES: –

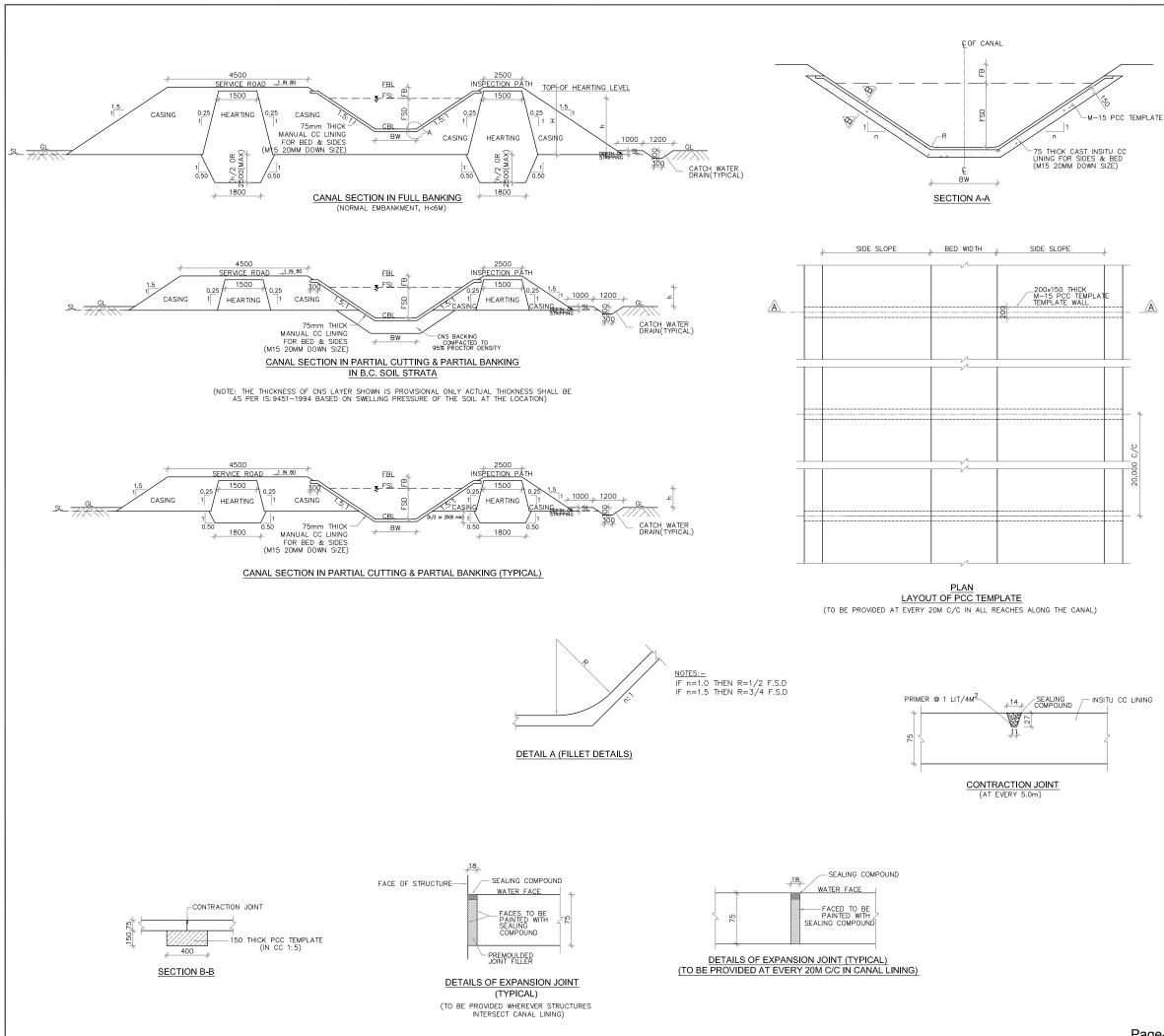
- 1) ALL DIMENSIONS ARE IN MILLIMETRE
- DO NOT SCALE THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
- 3) FOR HYDRAULIC PARAMETERS REFER APPROVED REACHWISE STATEMENT.
- 4) FOR SERVICE ROAD AND INSPECION PATH EXCAVATED EARTH MAY BE USED IF IT IS APPROVED BY THE ENGINEER INCHARGE AND SHALL BE AS PER SPECIFICATIONS.
- 5) THE CNS LAYER BACKING SHALL BE PROVIDED FOR B.C SOIL STRATA AFTER ASSESSING THE SWELL PRESSURE OF THE STRATA MET WITH.
- THE STORM WATER SHALL BE SUITABLY DRAINED TO THE NEAREST VALLEY.
- THE EXPANSION JOINT SHALL BE PROVIDED WHEREVER STRUCTURE INTERSECT THE CANAL LINING.
- 8) THE SPACING OF CONTRACTION JOINTS SHALL BE 5m C/C AND PROVIDED WHEREVER LINING IS CONTINUOUS.
- WHERE GROUND WATER TABLE IS ABOVE C.B.L UNDER DRAINAGE ARRANGEMENT WITH NRV. SHALL BE PROVIDED AS SHOWN IN SEPARATE DRAWING.
- 10) CATCH WATER DRAINS ESPECIALLY ON U/S SIDE SHALL BE PROPERLY DESIGNED FOR INDIVIDUAL CATCHMENTS.
- 11) A GAP OF 5m WIDTH SHALL BE LEFT IN SPOIL BANKS AT 150m INTERVAL FOR DRAINAGE.
- 12) WHEREVER STRATA CHANGES BETWEEN BERMS, SIDE SLOPES IN THAT HEIGHT SHALL BE JUDICIOUSLY PROVIDED.
- SIDE SLOPES:
- a. IN CUTTING
- i. IN NORMAL CUTTING a. WATER PRISM = 1:1
- b.ABOVE WATER PRISM NORMAL CUT
- c. IN HR/SR = 1:1
- d. IN BC SOIL = 1.5:1
- ii. IN DEEP CUT REACHES
- a. HR = 0.5:1 (WITH 2M BERM AT FREE BOARD LEVEL)
- b. SR / AKS = 1:1
- c. BC SOIL = 1.5:1 b. IN PARTIAL BANKING/BANKING
- i. INNER n=1.5
- ii. OUTER n=1.5

LEGEND: –

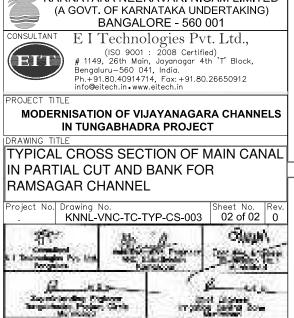
- 1) CC CEMENT CONCRETE.
- 2) FB FREE BOARD
- 3) BW BED WIDTH
- 4) GL GROUND LEVEL
- 5) M15 GRADE OF CONCRETE AS PER IS456
- 6) FSD FULL SUPPLY DEPTH

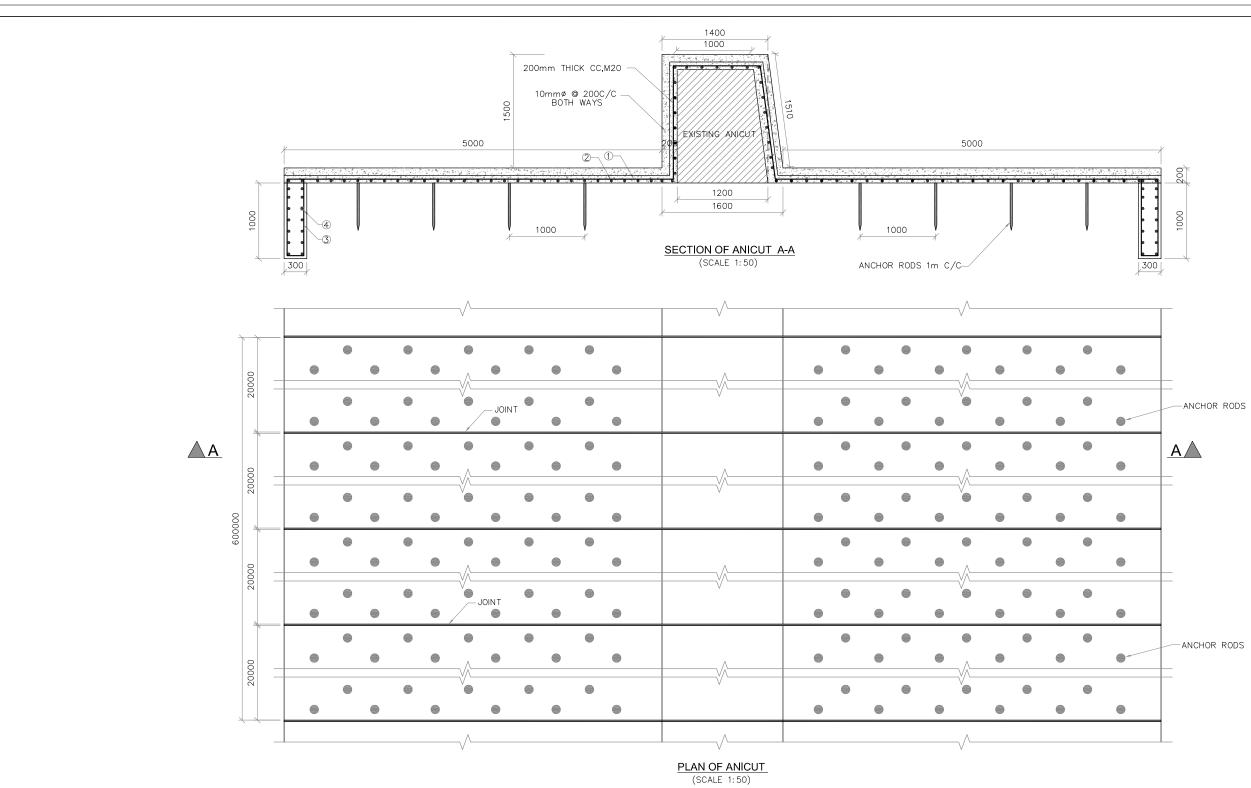
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NOTES: -
   1) ALL DIMENSIONS ARE IN MILLIMETRE AND REDUCED LEVELS
     ARE IN METRES.
   2) DO NOT SCALE THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE
     FOLLOWED.
   3) FOR OTHER NOTES AND DETAILS REFER DWG.
   4) CATCH WATER DRAINS ESPECIALLY ON LP SIDE, SHALL BE PROPERLY
     DESIGNED FOR INDIVIDUAL CATCHMENTS.
   5) GENERALLY, IN FULL EMBANKMENT REACHES, IF THE PERMEABILITY OF
     SOIL IS HIGH, HORIZONTAL HEARTING BLANKET BELOW CANAL BED WIDTH
     SHALL BE PROVIDED WITH THE APPROVAL OF THE COMPETENT AUTHORITY
   6) BORROW PITS, ADJACENT TO CANAL. IF REQUIRED, SHALL BE
     DESIGNED ON THE BASIS OF SOIL PROPERTIES AND STABILITY ANALYSIS
   7) STRIPPING DEPTH SHALL BE ADOPTED AS 22.50Cms.(AS PER IS4701-1982,
     STRIPPING DEPTH ADOPTED FOR CULTIVATED LAND SHALL BE 15.00 TO 22.50Cms
   8) MATERIALS:
     CONCRETE: GRADE AS SPECIFIED CONFIRMING TO IS: 456
      REINFORCEMENT: Fe 415 CONFIRMING TO IS 1786.
   9) CLEAR COVER TO ANY REINFORCEMENT : 25mm.
   10) LAP LENGTH OF THE BARS SHALL BE 50xBAR DIA. NOT MORE THAN
     50% OF BARS SHALL BE LAPPED AT ONE LOCATION.
   11) WHEREVER TOTAL NO. OF BARS ARE SPECIFIED, THEY ARE TO BE
     SPACED UNIFORMLY UNLESS MENTIONED OTHERWISE.
   12) EXPANSION JOINT TO BE PROVIDED WHERE EVER LINING INTERSECTS
     STRUCTURES.
   13) ALL CONCRETE LINING WORKS SHALL BE CARRIED OUT IN ACCORDANCE
      WITH IS: 3873 AND RELEVANT CODES.
   14) TOP OF HEARTING LEVEL = TOP OF LINING.
      TOP OF LINING = FSL+0.30 IF FB = 0.45m
      TOP OF LINING = FSL+0.15 IF FB = 0.30m
    SIDE SLOPES:
   a. IN CUTTING
     i. IN NORMAL CUTTING
     a. WATER PRISM = 1:1
     b.ABOVE WATER PRISM NORMAL CUT
     c. IN HR/SR = 1:1
     d. IN BC SOIL = 1.5:1
     II IN DEEP OUT REACHES
     a. HR = 0.5:1 (WITH 2M BERM AT FREE BOARD LEVEL)
     b. SR / AKS = 1:1
    c. BC SOIL = 1.5:1
   b. IN PARTIAL BANKING/BANKING
     i. INNER n=1.5
     ii. OUTER n=1.5
     LEGEND: -
     1) CC - CEMENT CONCRETE.
     2) FB - FREE BOARD
     3) BW - BED WIDTH
      4) GL - GROUND LEVEL
      5) M15 - GRADE OF CONCRETE AS PER IS456
      6) FSD - FULL SUPPLY DEPTH
                For Approval
Rev.
                 Description.
                                          Date. Drw. Pre. Chk. App
CLIEN
         KARNATAKA NEERAVARI NIGAM LIMITED
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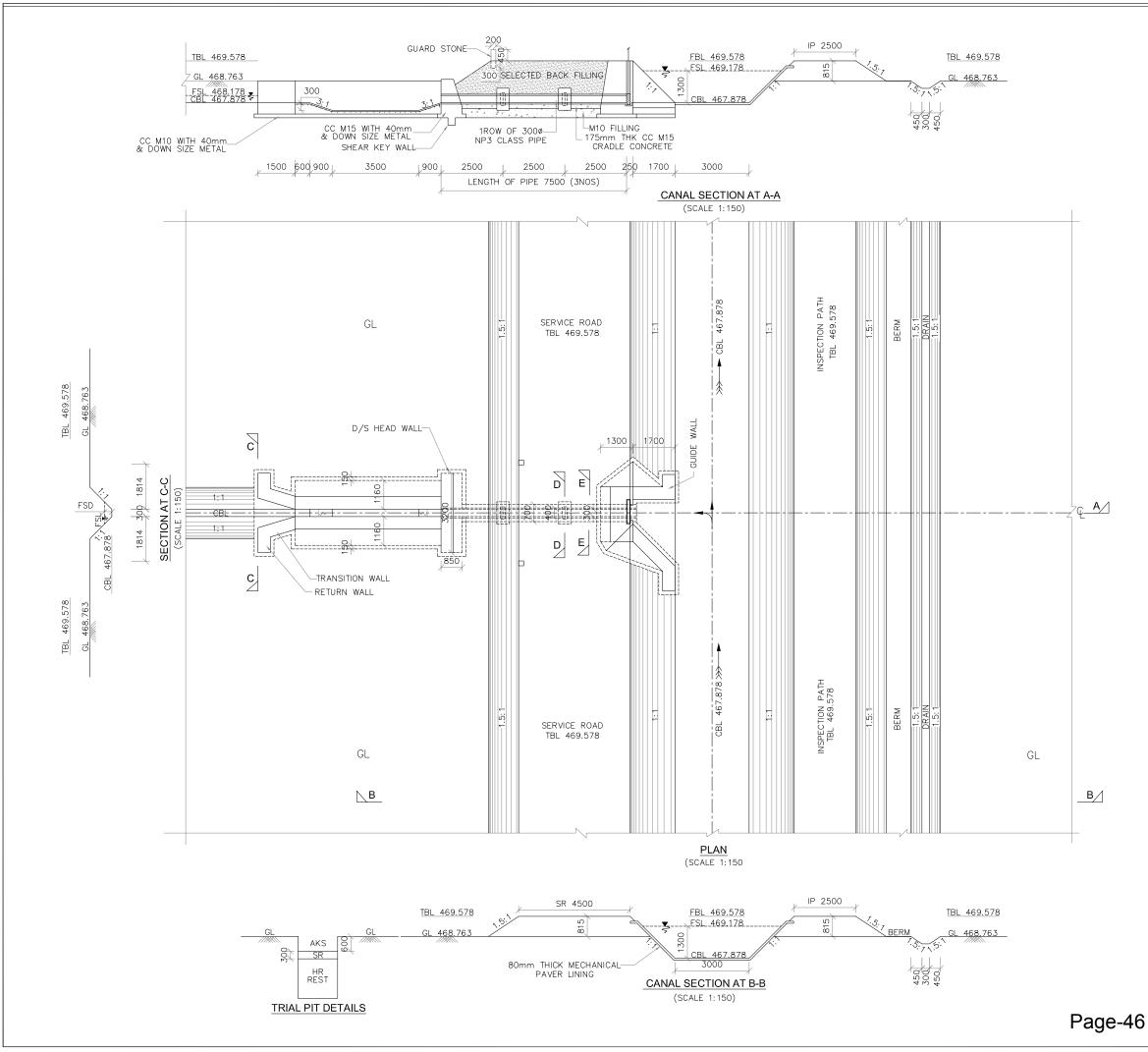


IEMBER		BAR	SPACING OF BAR (mm)	NO.OF BAR	SHAPE OF BARS (DIMENSION ARE IN MM) (NOT TO SCALE)		LENGTH OF EACH BAR (mm)	TOTAL LENGTH IN METRES	UNIT WEIGHT IN Kg/m	TOTAL WEIGHT IN Kg
CUT	1	10	200	3001	1000 1500 1510 4900 4900	1	13810	41444	0.62	25695
ANECUT	2	10	200	71	599950	2	599950	42596	0.62	26410
. WALL	3	10	200	3001×2	200 6 200	3	2200	13204	0.62	8187
CUT OFF	4	10	200	2x12	599950	4	599950	14399	0.62	8927
								+5% WAS	DTAL = 69 TAGE = 34 DTAL = 72 SAY = 72 TAL = 72	461 2680 kg

NOTES							DRAWING TITLE
 ALL DIMENSIONS ARE IN MILLIMETRES AND REDUCED LEVELS ARE IN METRES. DO NOT SCALE THE DRAWING.WRITTEN DIMENSIONS ONLY SHALL BE FOLLOWED. 	0 Rev. CLIEN	For Approval Description. KARNATAKA NEERA (A GOVT. OF KARNAT		IGAM		ED	Date Drw. Pre. Chk. App. Scale. Drawing Status. 1:50,000 FOR APPROVAL
 GRADE OF CONCRETE : CONFORMING TO IS 456-2000 (I) LEVELLING COURSE IN FOUNDATION - CC M10 WITH 40mm AND DOWN SIZE COARSE AGGREGATE. 		BANGALOF ULTANT E I Technolog (ISO 9001 : 2 # 1149, 26th Main, J Bengaluru-560 041, I Ph.+91.80.40914714,	gies Pv 008 Certif oyanagar ndia. Fax: +91.8	/ t. L1 fied) 4th 'T'	Block,		Project No. Drawing No. KNNL-VNC-TC-STR-AC-005 Of OF 01 0 Characteristics of the second secon
 ALL REINFORCEMENT SHALL BE OF HIGH YIELD STRENGTH DE FORMED BARS (GRADE DESIGNATION Fe415). SHARP EDGES OF CONCRETE SHALL BE CHAMFERED. 		info@eitech.in+www.eit ECT TITLE MODERNISATION OF VIJAYA IN TUNGABHADRA	NAGARA		INELS		A and

SCHEDULE OF REINFORCEMENT

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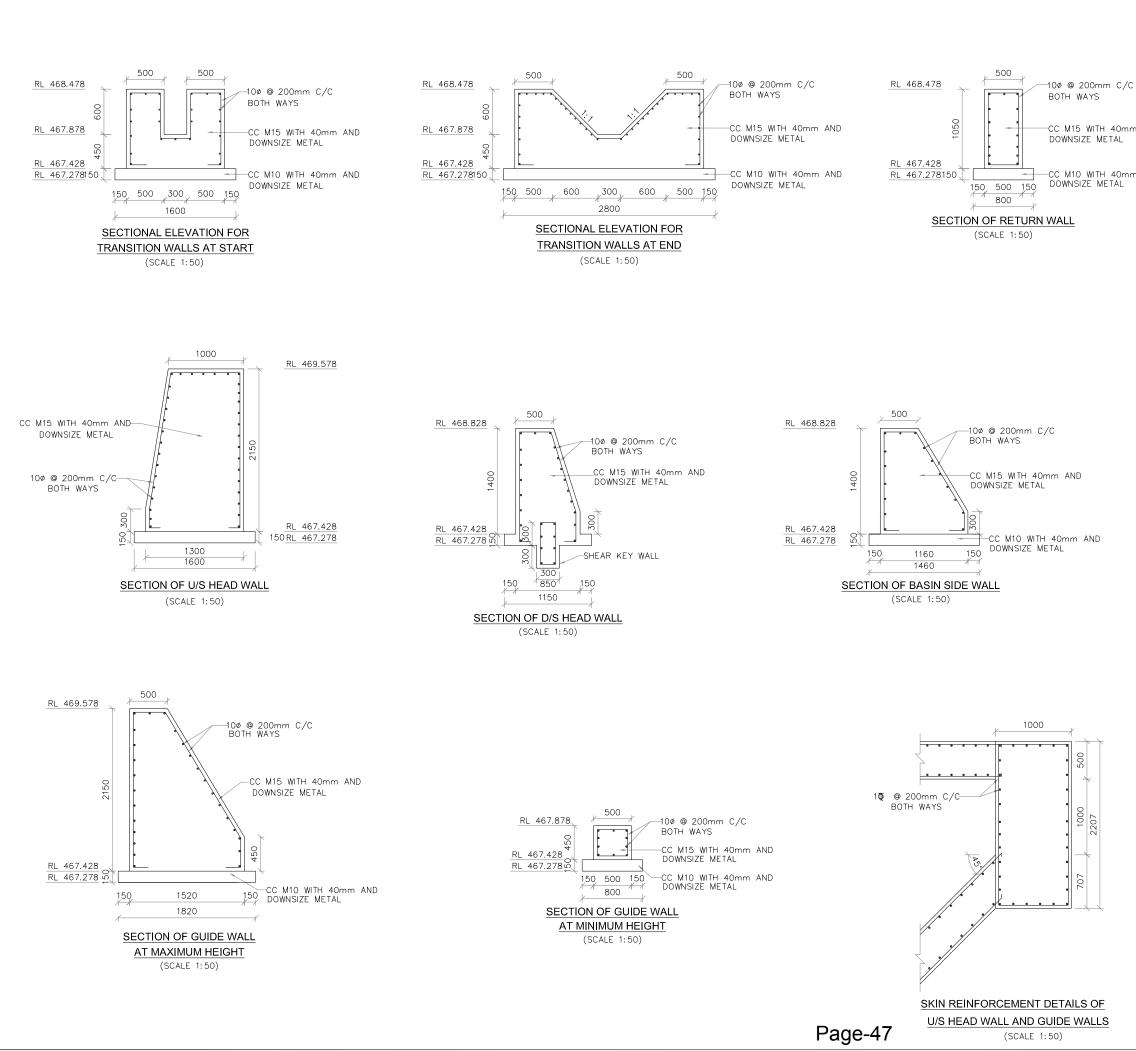


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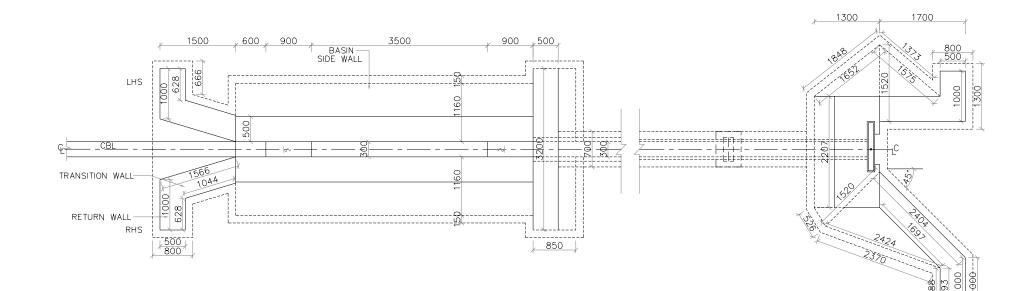
- 1) ALL DIMENSIONS ARE IN MILLIMETRES AND REDUCED LEVELS ARE IN METRES.
- 2) DO NOT SCALE THE DRAWING.WRITTEN DIMENSIONS ONLY SHALL BE FOLLOWED.
- SHALL BE FOLLOWED.
 3) GRADE OF CONCRETE :

 (I). CC M10 WITH 40mm DOWNSIZE METAL FOUNDATION BED CONCRETE.
 (II). CC M15 WITH 40mm DOWN SIZE METAL GUIDE WALLS, U/S & D/S HEAD WALLS,SHEAR KEY WALL, BASIN SIDE WALLS, TRANSITION WALLS, RETURN WALLS & CRADLE.
 CONSECTE DELOW DIDE
- (III). CC M15 WITH 20mm DOWN SIZE METAL U/S BASIN, STILLING BASIN, SLAB, STEPS, AND CANAL LINING.
- 4) 100mm THICK CC LINING IS PROVIDED FOR MAIN CANAL, 75mm THICK CC LINING IS PROVIDED FOR DISTRIBUTARY CANAL
- 5) SKIN REINFORCEMENT OF 10% AT 200mm C/C BOTH WAYS IS PROVIDED.
- 6) MINIMUM CLEAR COVER TO THE REINFORCEMENT SHALL BE 50mm UNLESS OTHER WISE MENTIONED.
- 7) NP3 CLASS HUME PIPES ARE PROPOSED.
- 8) CATCH WATER DRAIN SHOULD BE SUITABLY DIVERTED TO NATURAL STREAM OR NALAS.
- 9) DRY STONE PITCHING IS PROVIDED WHEREVER NECESSARY.

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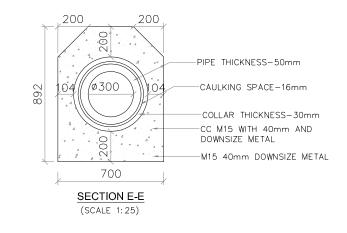
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	Rev. Description. Date. Drw. Pre. Chk. App. CLIENT
	🛛 📨 KARNATAKA NEERAVARI NIGAM LIMITED 📋
	(A GOVT. OF KARNATAKA UNDERTAKING) BANGALORE - 560 001
	CONSULTANT E I Technologies Pvt. Ltd.,
	(ISO 9001 : 2008 Certified) # 1149, 26th Main, Jayanagar 4th 'T' Block, Bengaluru-560 041, India.
	Ph.+91.80.40914714, Fax:+91.80.26650912 info@eitech.in.www.eitech.in
	PROJECT TITLE
	MODERNISATION OF VIJAYANAGARA CHANNELS
	IN TUNGABHADRA PROJECT
	CONSTRUCTION OF DIRECT PIPE OUTLET
	CONSTRUCTION OF DIRECT PIPE OUTLET AT CH: 6+385 KM FOR RAYA CHANNEL
	CONSTRUCTION OF DIRECT PIPE OUTLET AT CH: 6+385 KM FOR RAYA CHANNEL Date Drw. Pre. Chk. App. Scale. Drawing Status.
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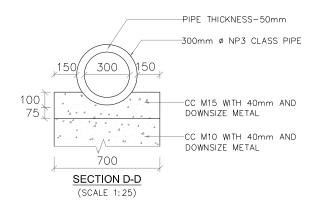


PLAN OF U/S HEAD WALL, GUIDE WALL, RETURN WALL AND U/S BASIN (SCALE 1:75)

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PLAN OF D/S HEAD WALL, STILLING BASIN, SIDE WALLS AND TRANSITION WALLS (SCALE 1:75)





NOTES 1) ALL DIMENSIONS ARE IN MILLI ARE IN METRES. 2) DO NOT SCALE THE DRAWING. SHALL BE FOLLOWED.		
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CONSULTANT E I Technolo	0 <mark>RE - 560 (</mark> ogies Pvt	001 . Ltd.,
(ISO 9001 : # 1149, 26th Main, Bengaluru-560 041 Ph.+91.80.40914714 info@eitech.in•www.e	India.	
PROJECT TITLE MODERNISATION OF VIJA IN TUNGABHADR		
DRAWING TITLE CONSTRUCTION OF DI AT CH: 6+385 KM FOI	R RAYA CH	HANNEL
Date Drw. Pre. Chk. App Project No. Drawing No. KNNL-VNC-RC-STF		Drawing Status. FOR APPROVAL Sheet No. Rev. 03 of 04 0
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Ę Check Nut— \mathbf{F} ISA-65x65 6mm Thick Hold Fast \leq ISMC-125x65_ FRAME 1770 SHAFT ____ 65mm DIA ب 150 بر \square \leq ISMC-100×50-FRAME ISA-50×50 6MM THICK-BRACINGS 500 M.S. PLATE_ 8MM THICK \square \subset 400 25-450 ELEVATION (SCALE 1:20) \bigcirc PLAN (SCALE 1:20) DOUBLE LOCKING SYSTEM GATE

SL. NO.	ITEMS	UNIT	DIMENSION		TOTAL WT. (kg)
1	ISMC-125 X 65 FRAME	RMT	4.45	12.70	56.51
2	ISMC-100 X 50 FRAME	RMT	1.80	9.20	16.56
3	ISA-5050; 6MM THICK. FOR BRACINGS.	RMT	1.69	4.50	7.605
4	ISA-6565; 6MM THICK. FOR HOLD-FASTS	RMT	0.90	5.80	5.22
5	M.S. PLATE 8MM THICK	SQM	0.20	62.80	12.56
6	SHAFT 65MM Ø M.S.	RMT	1.75	26.05	45.59
7	CHECK NUT M.S.	NO.	1.00	4.00	4.00
8	WHEEL M.S.	NO.	1.00	30.00	30.00
	•				,

TOTAL Wt. = 178.047 Kgs SAY = 179.000 Kgs = 0.179 MT

NOTES			
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(EIT)	# 1149, 26th Mai	: 2008 Certified) in, Jayanagar 4th 'T' Block, 41, India.	
	Ph.+91.80.409147 info@eitech.in•ww	714, Fax:+91.80.26650912	
PROJECT TITL			
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		DIRECT PIPE OUTLET	
		OR RAYA CHANNEL	
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