### 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 4)

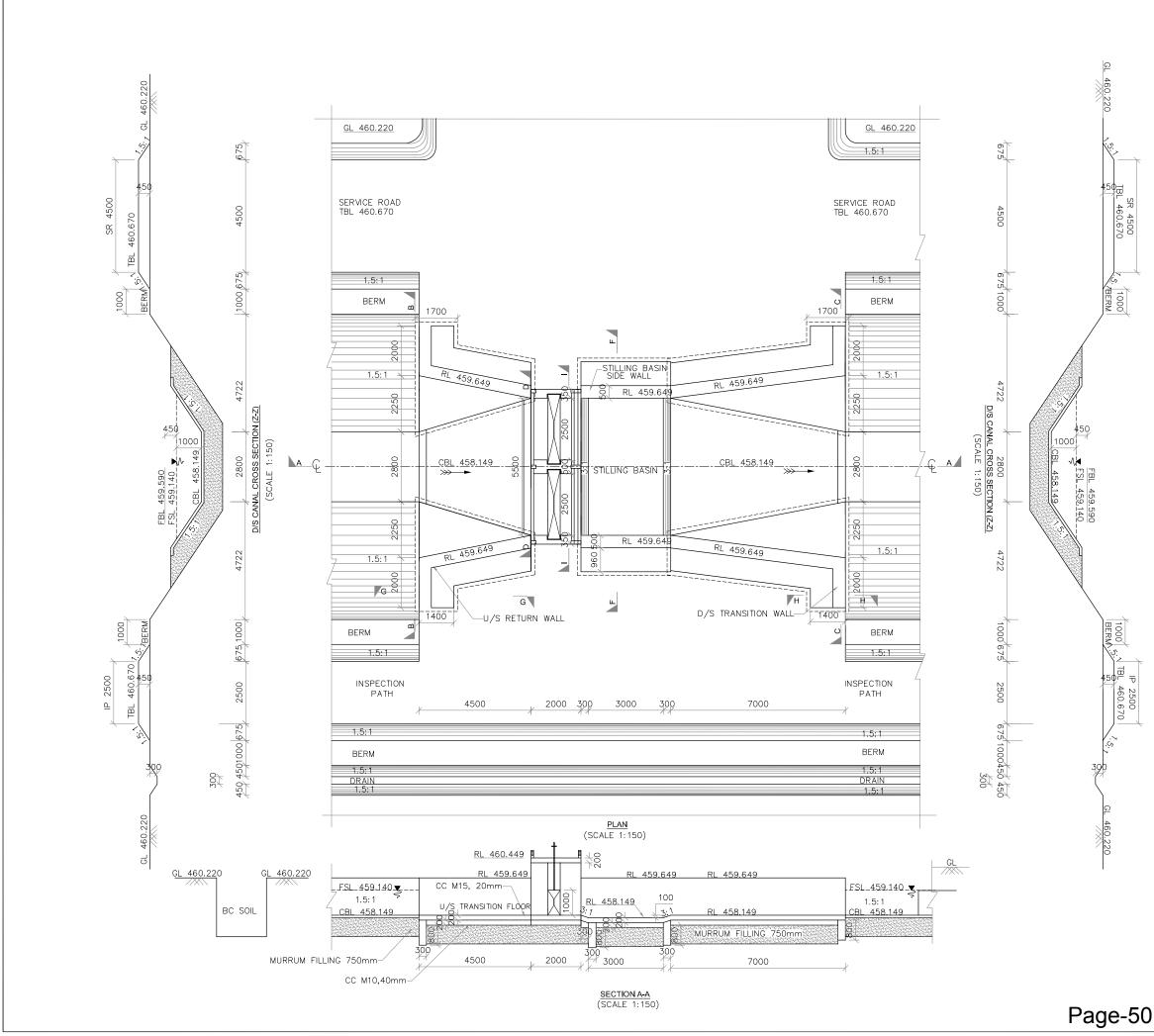
Prepared by the Karnataka Neeravari Nigam Limited for the State Government of Karnataka and the Asian Development Bank.

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Annexure 3

# STRUCTURES UNDERGOING REHABILITATION AND TYPICAL DRAWINGS



- ) ALL DIMENSIONS ARE IN MILLIMETRES AND REDUCED LEVELS ARE IN METRES.
- 2) DO NOT SCALE THE DRAWING.WRITTEN DIMENSIONS ONLY SHALL BE FOLLOWED. 3) THE BRIDGE IS DESIGNED ADOPTING THE FOLLOWING IRC
- AND IS CODES. IRC-5-1998. IRC-6-2000. IRC-21-2000. IRC-78-2000 IRC-83-2000.
- IS 456-2000.

SL NO.	ELEMENTS	CONCRETE GRADE
1	BOX, CANTLEVEL WALL, HAND RAILS, AND STILLING BASIN.	M20 WITH 20MM AND D/S METAL
2	CUTOFF WALLS AND FLOOR.	M15 WITH 20MM AND D/S METAL
3	BASIN SIDE WALLS, RETURN WALLS, ABUTMENTS, TRANSITION WALLS.	M15 WITH 40MM AND D/S METAL
4	FOUNDATION BED CONCRETE	M10 WITH 40MM AND D/S METAL

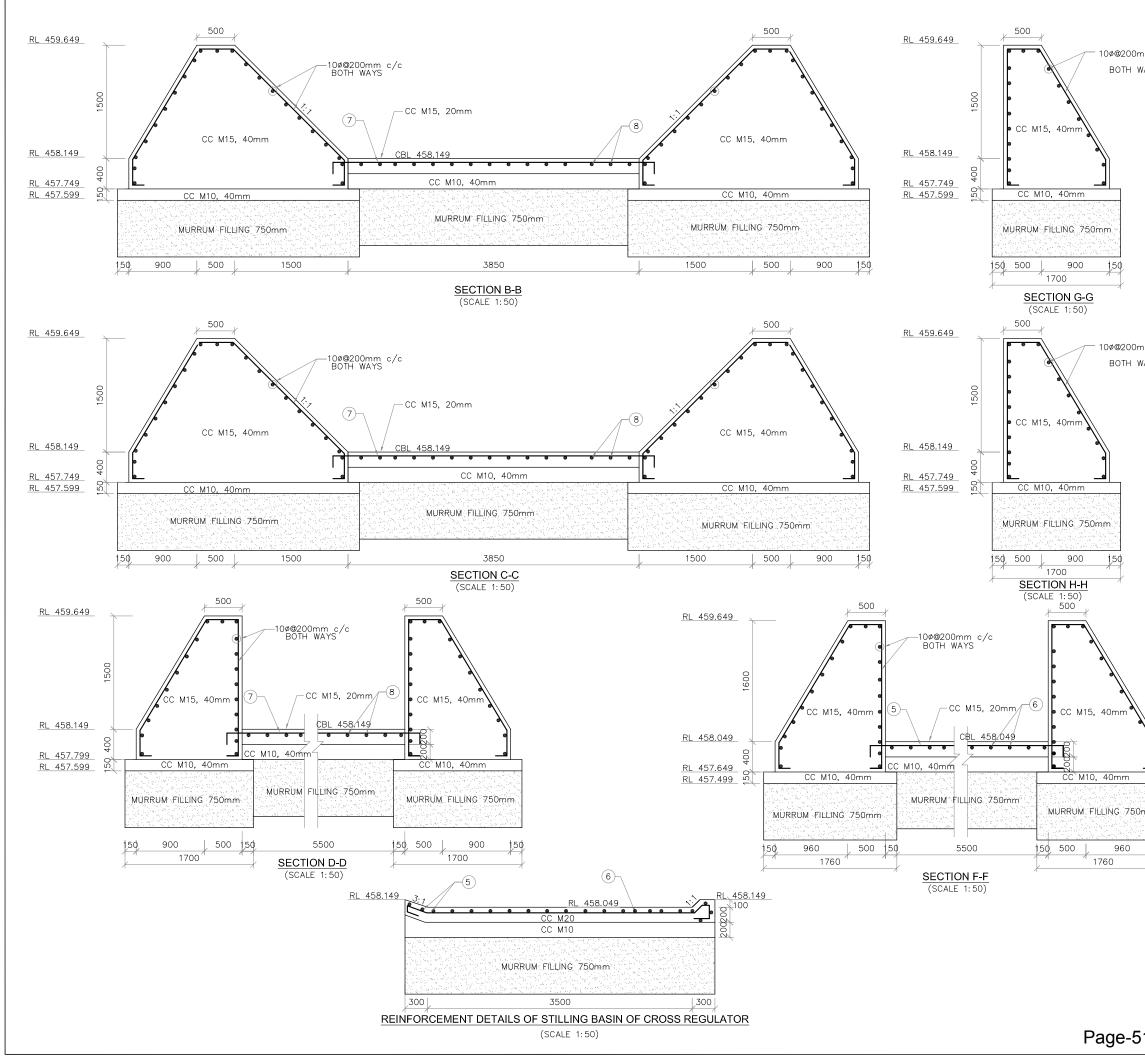
4) ALL REINFORCEMENT SHALL BE OF HIGH YIELD STRENGTH DE FORMED BARS (GRADE DESIGNATION Fe415).

5) SHARP EDGES OF CONCRETE SHALL BE CHAMFERED.

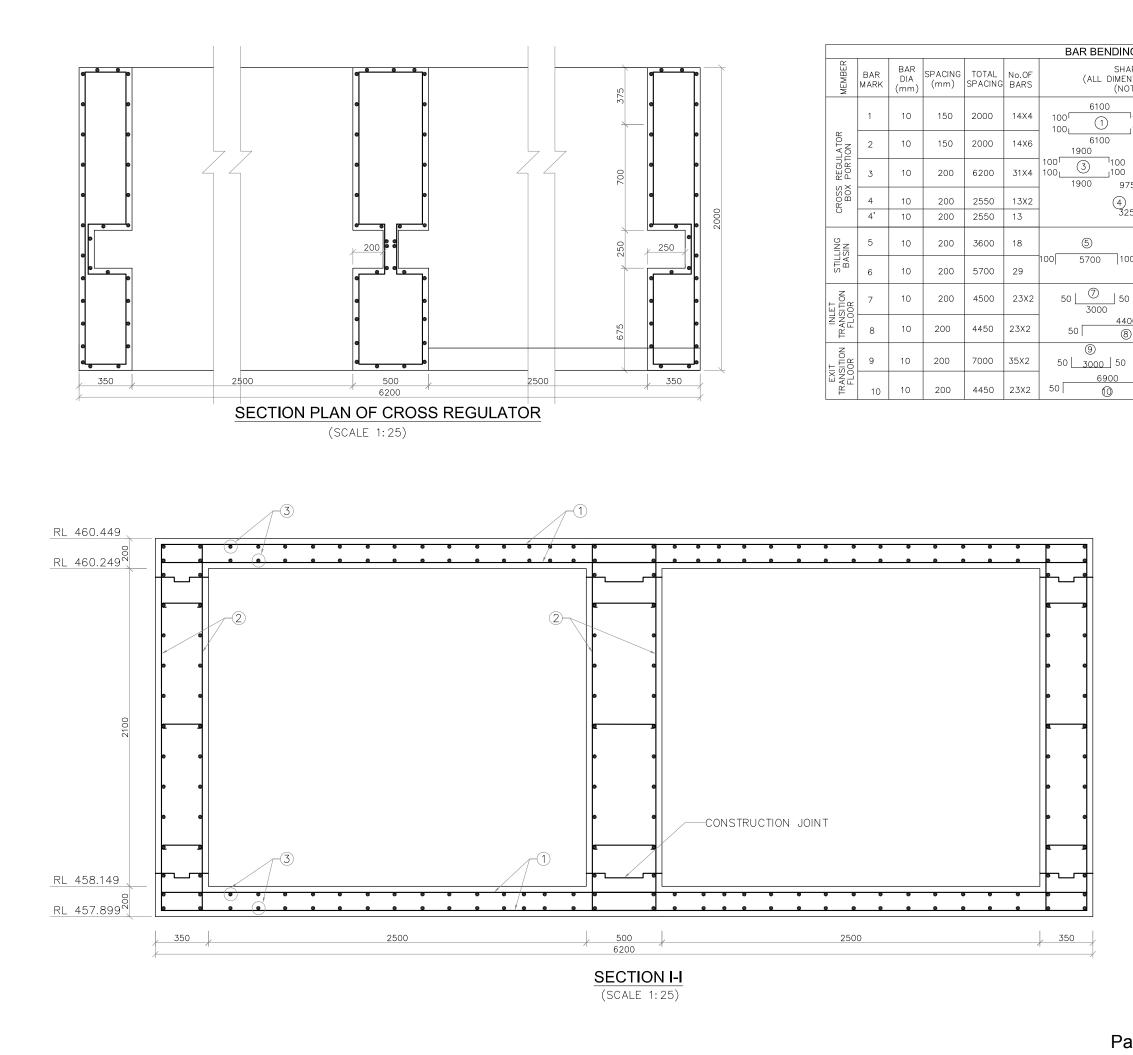
6) FILLING BEHIND TRANSITIONS AND RETURNS SHALL BE AS PER REVELENT IRC SPECIFICATIONS.

- 7) REINFORCEMENT SHALL BE HIGH YIELD STRENGTH DEFORMED BARS OF GRADE Fe 415 CONFORMING TO IS 1786 - 1985.
- 8) MINIMUM COVER TO ANY REINFORCEMENT SHALL BE 50mm UNLESS OTHERWISE MENTIONED.
- 9) SKIN REINFORCEMENT OF 100 @200MM C/C BOTH WAYS IS PROVIDED 10) SUITABLE RAMP SHOULD BE PROVIDED TO MEET THE
- REQUIRED LEVELS. 1) HAND RAIL: AS PER MOST.
- 12) STEEL LADDER IS PROVIDED FOR THE PURPOSE OF GATE
- STEEL LADDER IS PROVIDED FOR THE FOUNDED FOR THE FOUNDED FOR THE CONTROL OF THE STIMATES FOR THE GATES, EMBEDDED PARTS AND SCREW TYPE HOIST ARE BASED ON THE SCHEDULE OF RATES FOR THE YEAR 2007 2008.
   DRY STONE PITCHING IS PROVIDED WHEREVER NECESSARY.
   TABLE WATES DRAM SHOULD BE SUITABLY DIVERTED TO THE SCHEDULE OF RESERVENCESSARY.
- 15) CATCH WATER DRAIN SHOULD BE SUITABLY DIVERTED TO
- NATURAL STREAMS OR NALAS. 16) ALL BANK WORKS SHALL BE COMPACTED THOROUGHLY AS PER STANDARDS.

For Approval Rev. Description. Date. Drw. Pre. Chk. App CLIENT KARNATAKA NEERAVARI NIGAM LIMITED 7 (A GOVT. OF KARNATAKA UNDERTAKING) 1 BANGALORE - 560 001 CONSULTANT E I Technologies Pvt. Ltd., (ISO 9001 : 2008 Certified) # 1149, 26th Main, Jayanagar 4th 'T' Block, Bengaluru-560 041, India. EI Ph.+91.80.40914714, Fax:+91.80.26650912 info@eitech.in•www.eitech.in ROJECT TITLE **MODERNISATION OF VIJAYANAGARA CHANNELS** IN TUNGABHADRA PROJECT RAWING TITLE CONSTRUCTION OF CROSS REGULATOR AT CH: 0+184 Km FOR BELLA CANAL Scale. Drawing Status. AS SHOWN FOR APPROVAL Date Drw. Pre. Chk. App. Scale. Project No Drawin Sheet No. KNNL-VNC-BLC-STR-CR-007 01 of 05 0 将 SWW VNC Sub-OMston Executive Enginee TE Envision No.1 Munirabod Condi ogies Fvt. Ltd Bong e D 000 ela Superintending Engineer Tungabhadra Project Circle Munirabad Chief Engineer Irrigation Central Zone Munimobad



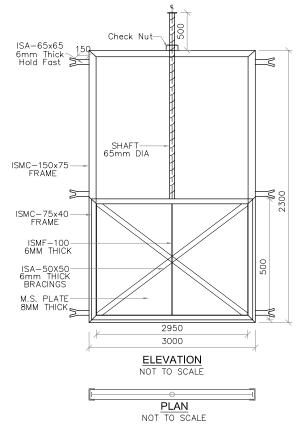
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	BANGAL	_ORE - 560 001
	CONSULTANT E I Techno	ologies Pvt. Ltd.,
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	100 <u>00</u>	2100	260.40	0.617	160.66			
	4') 975	4700	122.2	0.617	75.39	-		
5 200 275 50 250	275	4600	59.8	0.617	36.89	1		
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0 100 2900	100	3932	114.03	0.617	70.35			
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SL. NO.	ITEMS	UNIT	DIMENSION	WT/.M (kg/sqm)	TOTAL WT. (kg)
1	ISMC-125 X 65 FRAME	RMT	10.60	13.10	138.86
2	ISMC-100 X 50 FRAME	RMT	6.90	9.56	65.96
3	ISA-50x50; 6mm THICK. FOR BRACINGS	RMT	8.94	4.90	43.81
4	ISA-65x65; 6mm THICK. FOR HOLD FASTS	RMT	1.50x2	5.80	17.40
5	M.S. PLATE 8mm THICK	SQM	1.48	62.80	92.63
6	SHAFT 65mm f M.S.	RMT	2.28	26.05	59.26
7	CHECK NUT M.S.	NO.	1.00	4.00	4.00
8	WHEEL M.S.	NO.	1.00	30.00	30.00

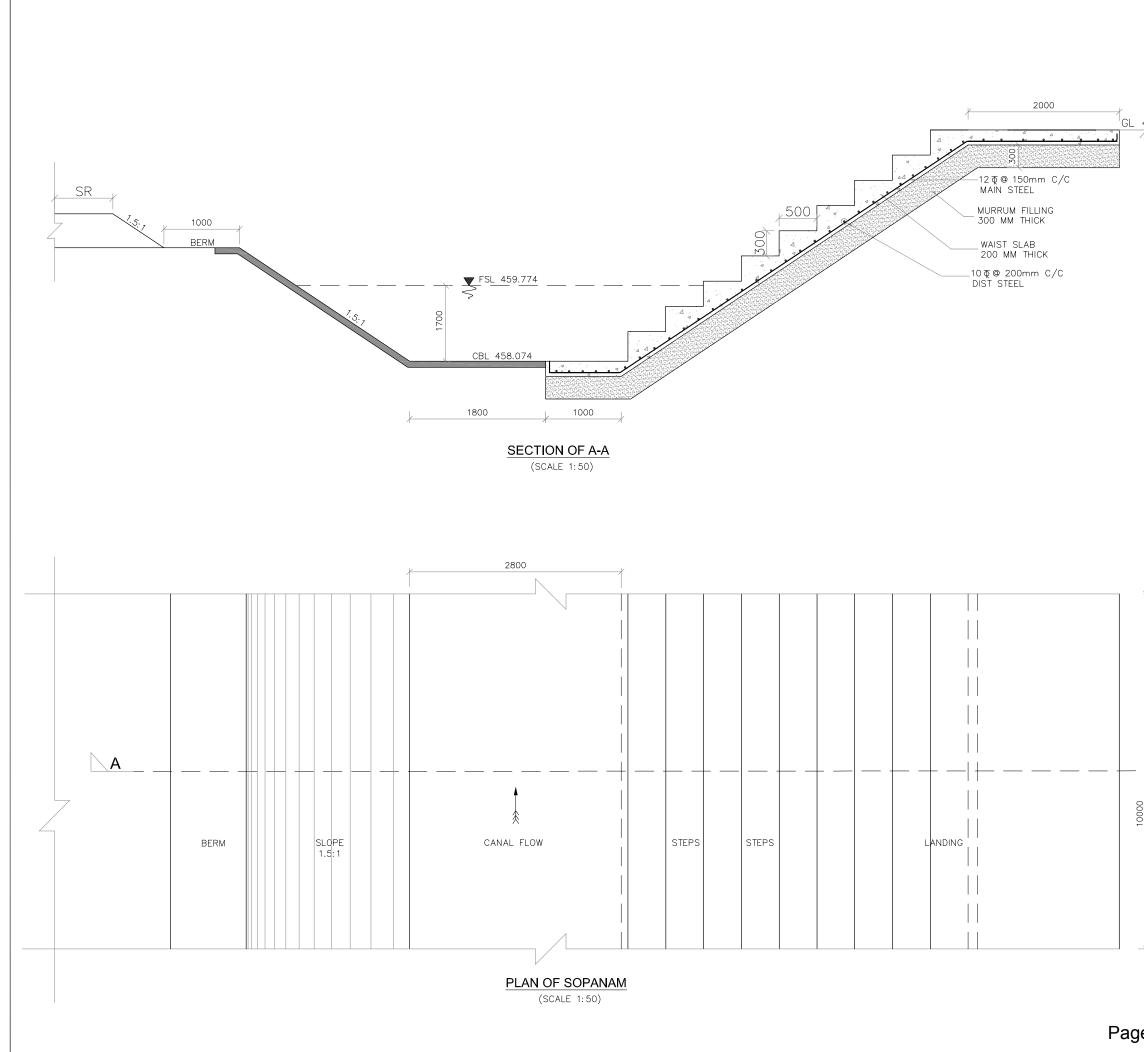
TOTAL Wt. = 451.924 Kgs SAY = 452 Kgs FOR 1 GATE = 0.452 MT FOR 2 GATES = 0.904 MT



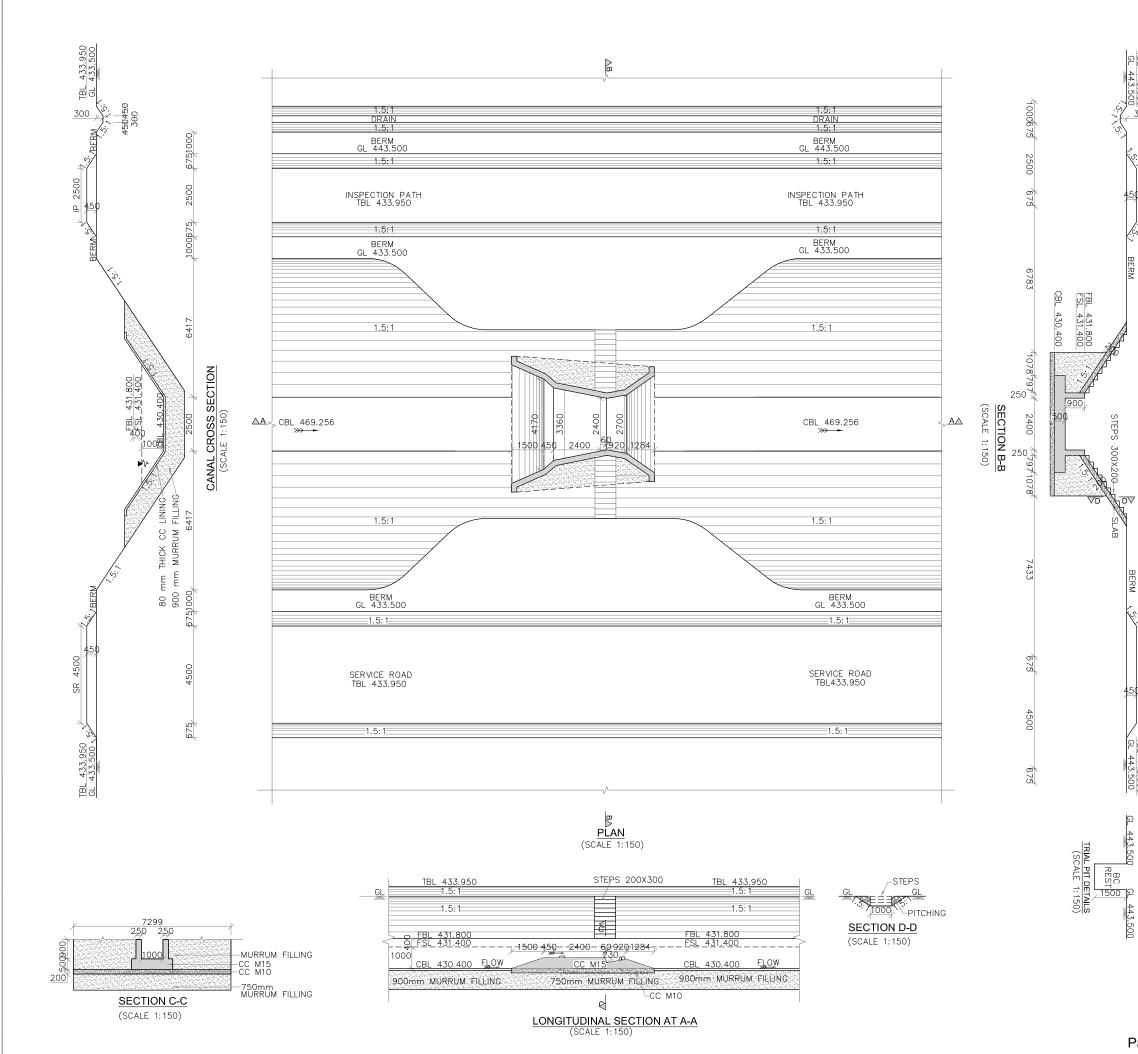
DOUBLE LOCKING SYSTEM GATE

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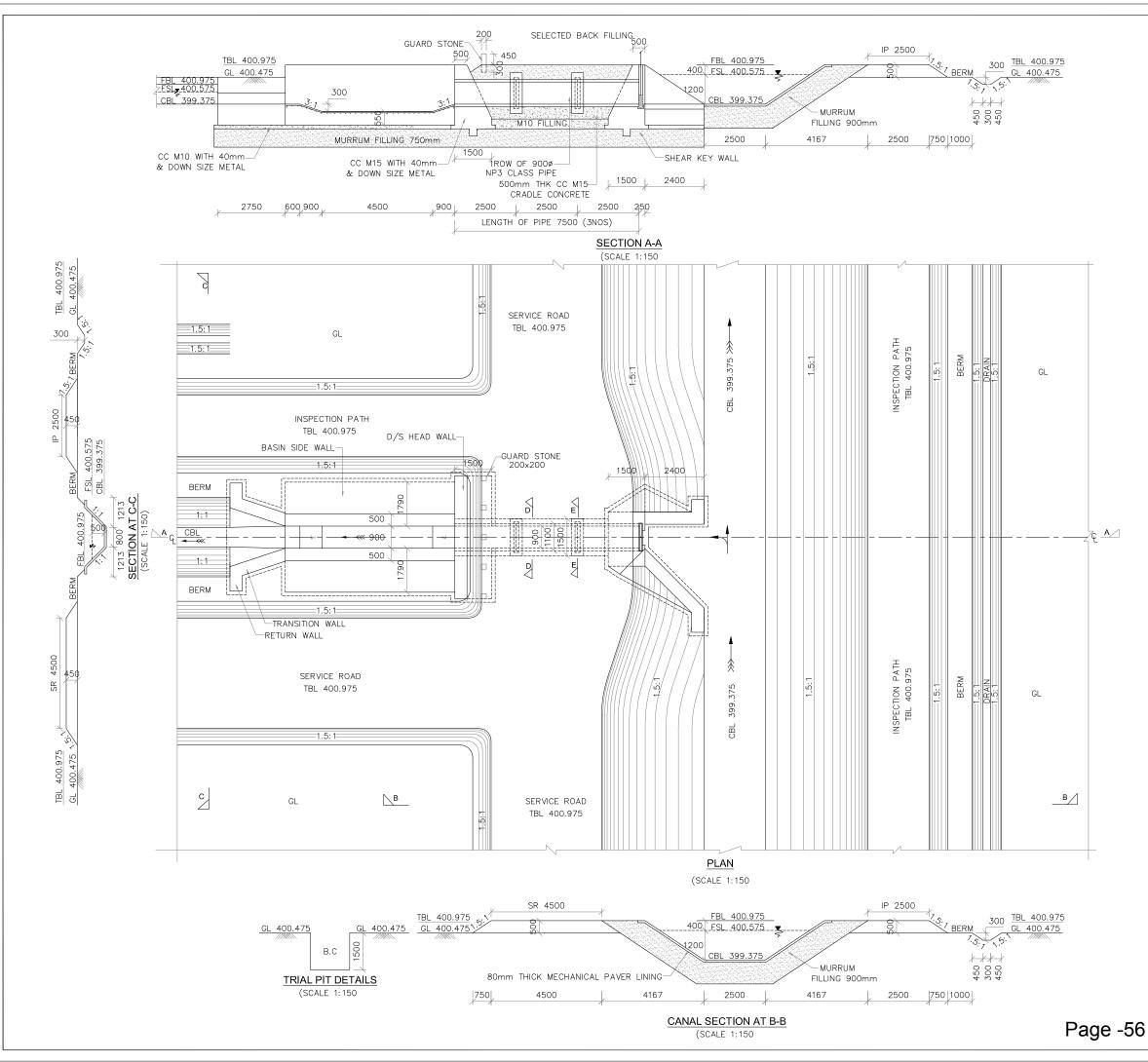
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2	# 1149, 26th Ma Bengaluru-560	01 : 2008 Certified) ain, Jayanagar 4th 'T' Block,	
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	DRAWING TITLE		
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	CH: 0+184 Km	FOR BELLA CANAL	
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	PROJECT TITLE		
	MODERNISATION IN TUNGA	OF VIJAYANAGA	
	DRAWING TITLE		
	Construction of Measu	iring Device at CH:	0+50 km of
	Ramsagar Channel	Children Ser-i-	Drawing Status
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Page -55	Superintending Engine Tungabhadra Project C Munirabad	er q	hief Engineer on Central Zone Munirabad



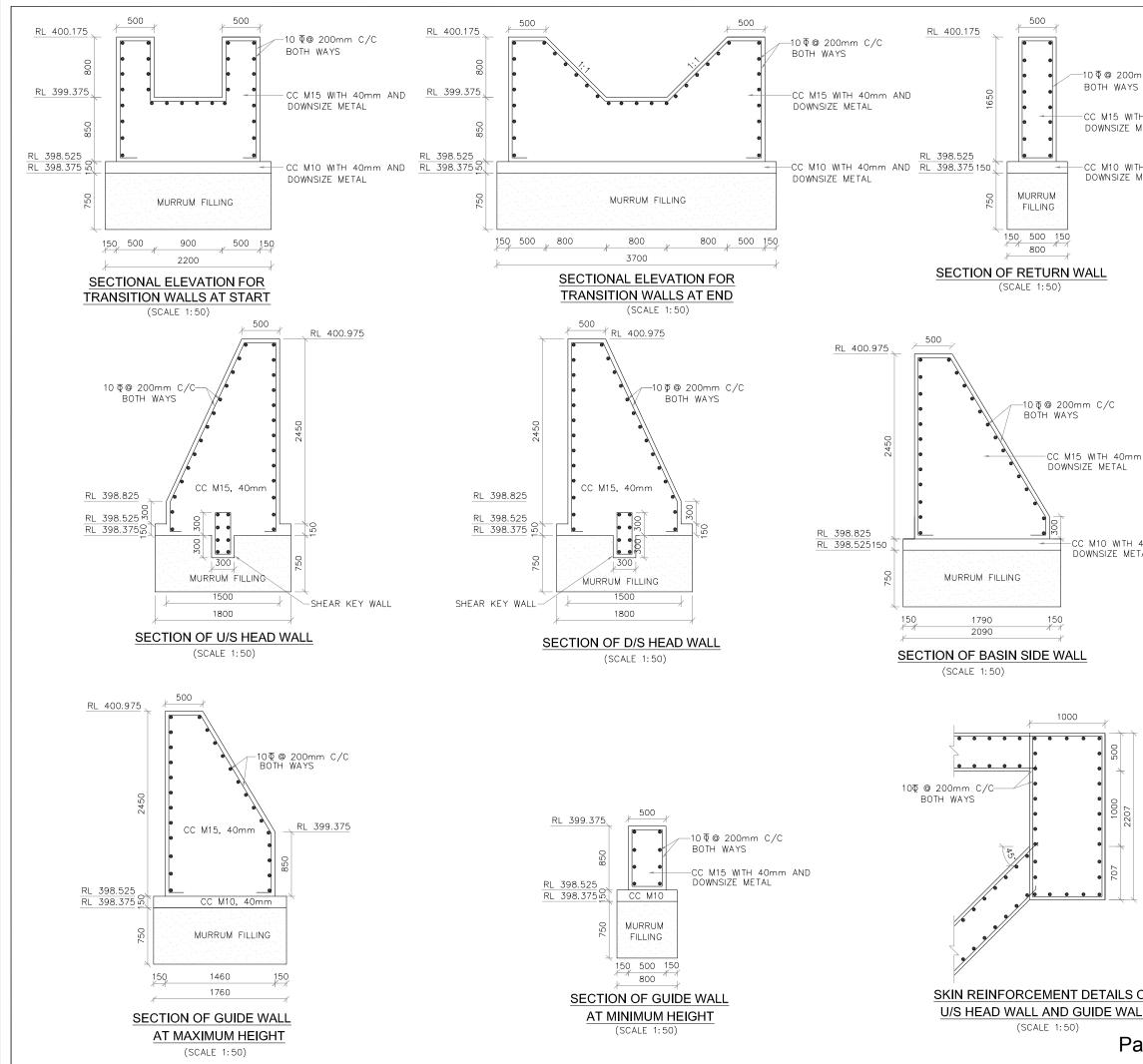
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1) ALL DIMENSIONS ARE IN MILLIMETRES AND REDUCED LEVELS
ARE IN METRES. 2) DO NOT SCALE THE DRAWING.WRITTEN DIMENSIONS ONLY
SHALL BE FOLLOWED.
<ul> <li>GRADE OF CONCRETE : (I). CC M10 WITH 40mm DOWNSIZE METAL - FOUNDATION</li> </ul>
BED CONCRETE. (II). 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.
CONCRETE BELOW PIPE. (III). CC M15 WITH 20mm DOWN SIZE METAL – U/S BASIN,
STILLING BASIN, SLAB, STEPS,AND CANAL LINING. 4) 80mm THICK CC LINING IS PROVIDED FOR MAIN 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.
<ol> <li>CATCH WATER DRAIN SHOULD BE SUITABLY DIVERTED TO NATURAL STREAM OR NALA.</li> </ol>
9) DRY STONE PITCHING IS PROVIDED WHEREVER NECESSARY.
O         For Approval         . <t< td=""></t<>
KARNATAKA NEERAVARI NIGAM LIMITED
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
MODERNISATION OF VIJAYANAGARA CHANNELS IN TUNGABHADRA PROJECT
DRAWING TITLE
CONSTRUCTION OF HEAD REGULATOR FOR DIST-1 AT CH : 6+738 Km OF RAMSAGARA CHANNEL
Date Drw. Pre. Chk. App. Scale. Drawing Status.
AS SHOWN FOR APPROVAL
Project No.         Drawing No.         Sheet No.         Rev.           KNNL-VNC-RSC-STR-HR-007         01 of 04         0
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E I Technologies PvL. Ltd. VNC Sub-Dheldon TB-Envision No.1 Bangatore Kamalapur Munirabod

Chief Engineer Irrigation Central Zone

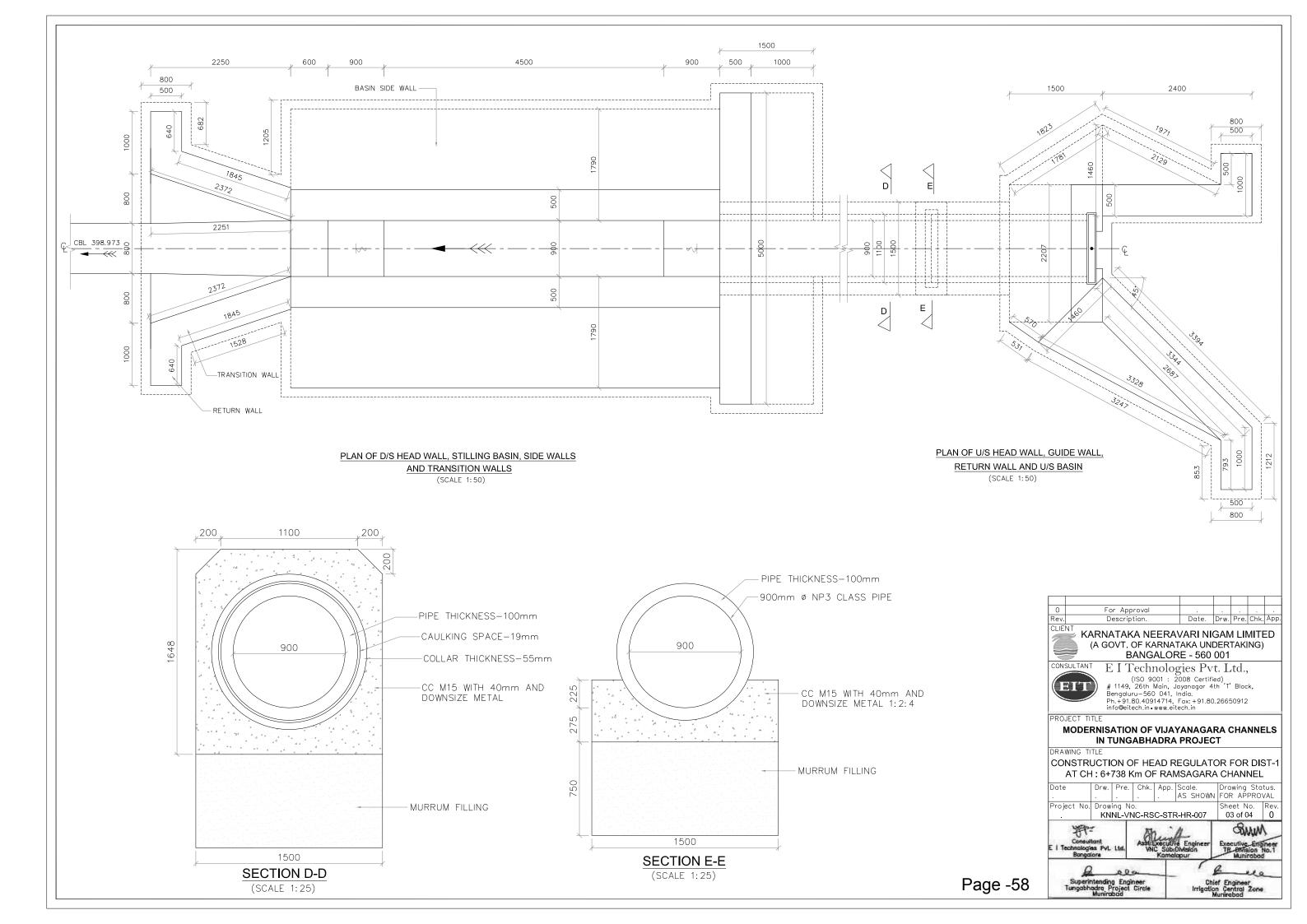
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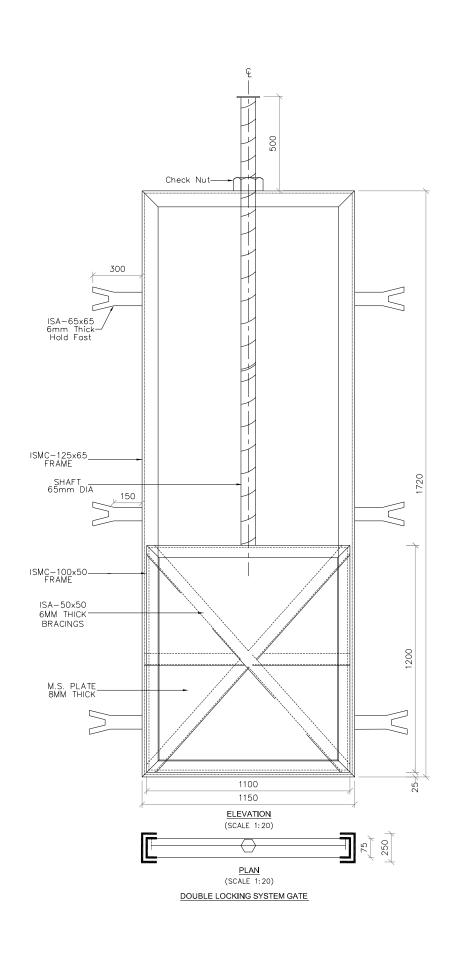
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	NOTES 1) ALL DIMENSIONS ARE IN MILL	LIMETRES AND	REDUCED LEVELS
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	Bengaluru-560 0- Ph.+91.80.409147 info@eitech.in•www PROJECT TITLE	41, India. 14, Fax:+91.80. w.eitech.in	26650912
	MODERNISATION OF VI IN TUNGABHAD DRAWING TITLE CONSTRUCTION OF HEAD	RA PROJEC	T
	AT CH : 6+738 Km OF R Date Drw. Pre. Chk. Ap		CHANNEL Drawing Status. FOR APPROVAL
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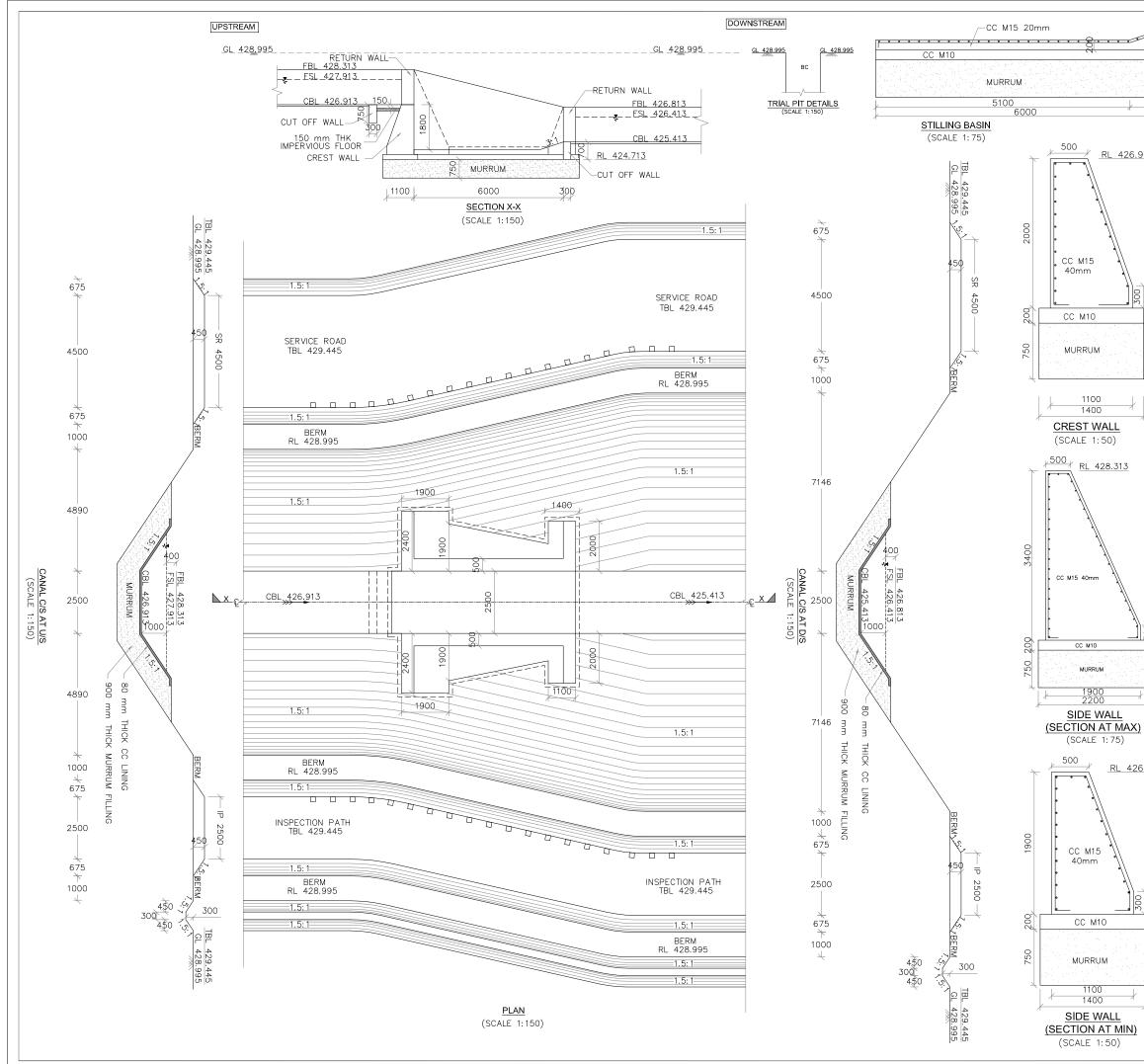


SL. NO.	ITEMS	UNIT	DIMENSION		TOTAL WT. (kg)
1	ISMC-125 X 65 FRAME	RMT	5.84	12.70	73.02
2	ISMC-100 X 50 FRAME	RMT	4.20	9.20	42.32
3	ISA-5050; 6MM THICK. FOR BRACINGS.	RMT	4.36	4.50	19.62
4	ISA-6565; 6MM THICK. FOR HOLD-FASTS	RMT	1.80	5.80	10.44
5	M.S. PLATE 8MM THICK	SQM	1.32	62.80	82.90
6	SHAFT 65MM Ø M.S.	RMT	1.00	26.05	26.05
7	CHECK NUT M.S.	NO.	1.00	4.00	4.00
8	WHEEL M.S.	NO.	1.00	30.00	30.00

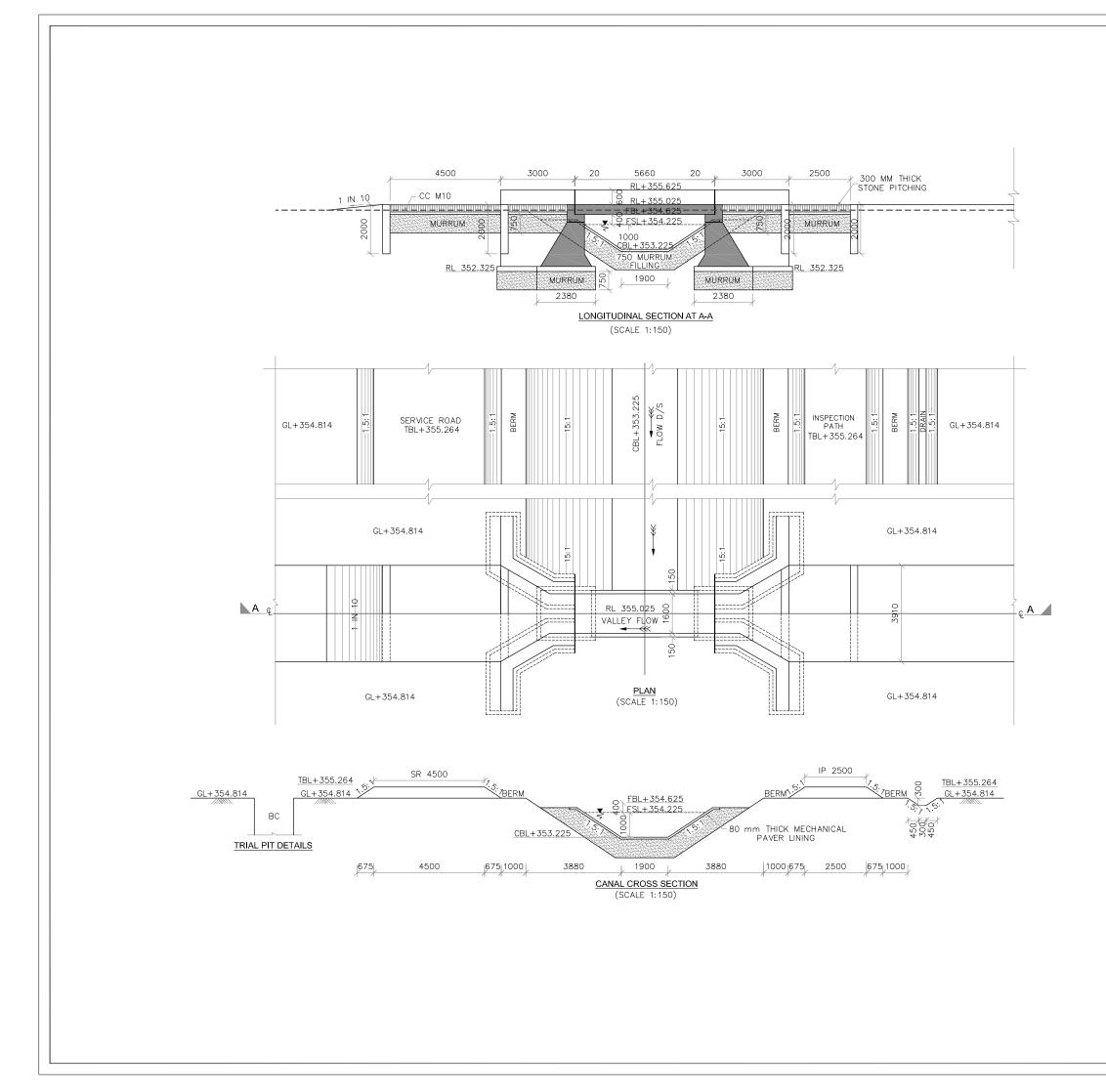
TOTAL Wt. = 288.350 Kgs SAY = 299.000 Kgs = 0.299 MT

NOTES						
1) ALL DIMENSIONS ARE						
2) DRAWING SHALL NOT	BE SCALED	OR MEASURED				
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Rev. Descri			Drw. Pre. Chk. App.			
(A GOVT.	OF KARI		GAM LIMITED DERTAKING)			
<u> </u>		ORE - 560				
	L ecnno (ISO 9001	logies Pv : 2008 Certifie	t. L≀ta., ∍d)			
# 1149 Bengali Bb ( 21	, 26th Mair uru−560 04 80 400147	: 2008 Certifie n, Jayanagar 4 H, India.	th T Block,			
in fo@ei	tech.in•www	14, Fax:+91.80 v.eitech.in	.26630912			
PROJECT TITLE MODERNISATION OF VIJAYANAGARA CHANNELS						
IN TUNGABHADRA PROJECT						
CONSTRUCTION	OF HEAD	REGULAT	OR FOR DIST-1			
AT CH : 6+738			-			
Date Drw. Pre.	. Chk. Ap 	pp. Scale. AS SHOWN				
Project No. Drawing N KNNL-V		STR-HR-007	Sheet No.         Rev.           04 of 04         0			
797=	, Kin	1	Smith			
Consultant E i Technologies Pvt. Ltd.	Assilexed	uuve Engineer ub:DMalon	Executive Engineer TE Envision No.1 Munirabod			
Bangatore	Ka	melopur	Munirabad			
Superintending Eng		Chi	ef Engineer			
Superintending Eng Tungabhadra Project Munirabod	Circle	Irrigatio	of Engineer n Central Zone Aunirabad			

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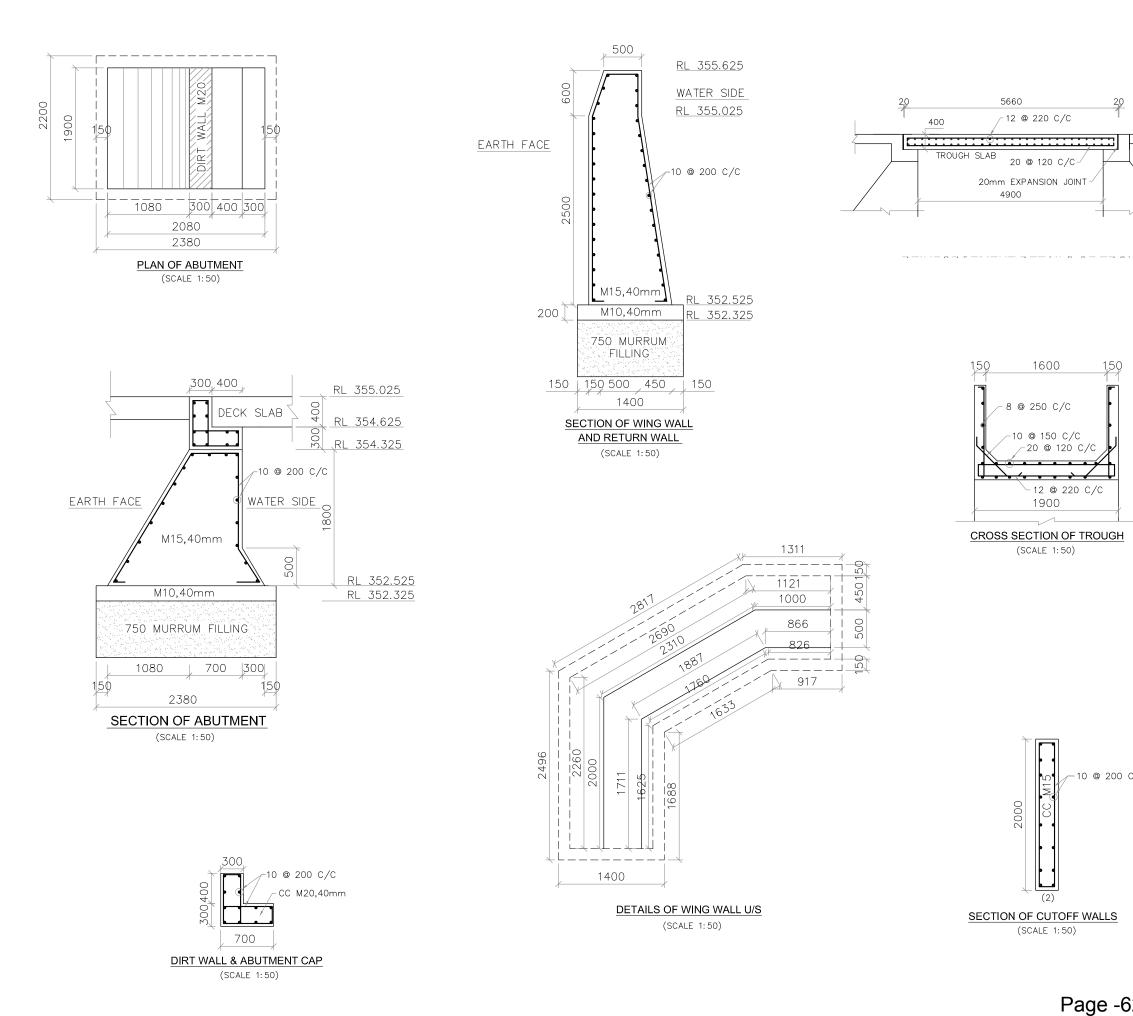


	NOTES
3.1	1) ALL DIMENSIONS ARE IN mm AND LEVELS ARE IN M UNLESS OTHERWISE SPECIFIED
	2) DRAWING SHALL NOT BE SCALED OR MEASURED.
220	3) GRADE OF CONCRETE : (1). CC M10 WITH 40mm DOWNSIZE METAL - FOUNDATION
900	BED CONCRETE. (II). CC M15 WITH 40mm DOWN SIZE METAL - SIDE WALLS.
	CREST WALL, & RETURN WALLS.
.913	<ul> <li>(III). CC M15 WITH 20mm DOWN SIZE METAL – STILLING BASIN,CUTOFF WALLS &amp; CANAL LINING.</li> <li>4) ALL REINFORCEMENT STEEL SHALL BE OF HIGH YIELD</li> </ul>
	STRENGTH DEFORMED BARS GRADE DESIGNATION Fe 415
	CONFORMING TO IS: 1786 5) SKIN REINFORCEMENT OF 10Ø AT 200mm IS PROVIDED
	FOR CREST WALL, SIDE WALLS, RETURN WALLS AND CUT OFF WALLS
	6) MINIMUM CLEAR COVER TO THE REINFORCEMENT SHALL BE 50mm UNLESS OTHER WISE MENTIONED.
	7) DRY STONE PITCHING IS PROVIDED WHEREVER NECESSARY.
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RL 424.913	
RL 424.713	
— X	
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RL 424.913	
RL 424.713	
al an Al Ala Al Ala	
	Page-60
X	0 For Approval Rev. Description. Date. Drw. Pre. Chk. App.
<u>()</u>	Rev. Description. Date. Drw. Pre. Chk. App. CLIENT KARNATAKA NEERAVARI NIGAM LIMITED
0.017	(A GOVT. OF KARNATAKA UNDERTAKING)
26.813	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
<u> </u>	DRAWING TITLE
<u>RL 424.913</u>	Construction of canal drop 1.5M at CH:3+960 km of Ramsagar channel
RL_424.713	Date Drw. Pre. Chk. App. Scale. Drawing Status.
8.]	Project No. Drawing No. Sheet No. Rev.
	KNNL-VNC-TC-STR-CD-008 01 of 01 0
<u> </u>	Consultant E I Technologies PvL Ltd. Assultation Vice SubDivision Technologies PvL Ltd. Vice SubDivision Technologies No.1 Bangators
$\rightarrow$	Bangatore Kamalapur Munirabad
)	Superintending Engineer Chief Engineer
	Superintending Engineer Tungabhadra Project Circle Nunirabad Munirabad

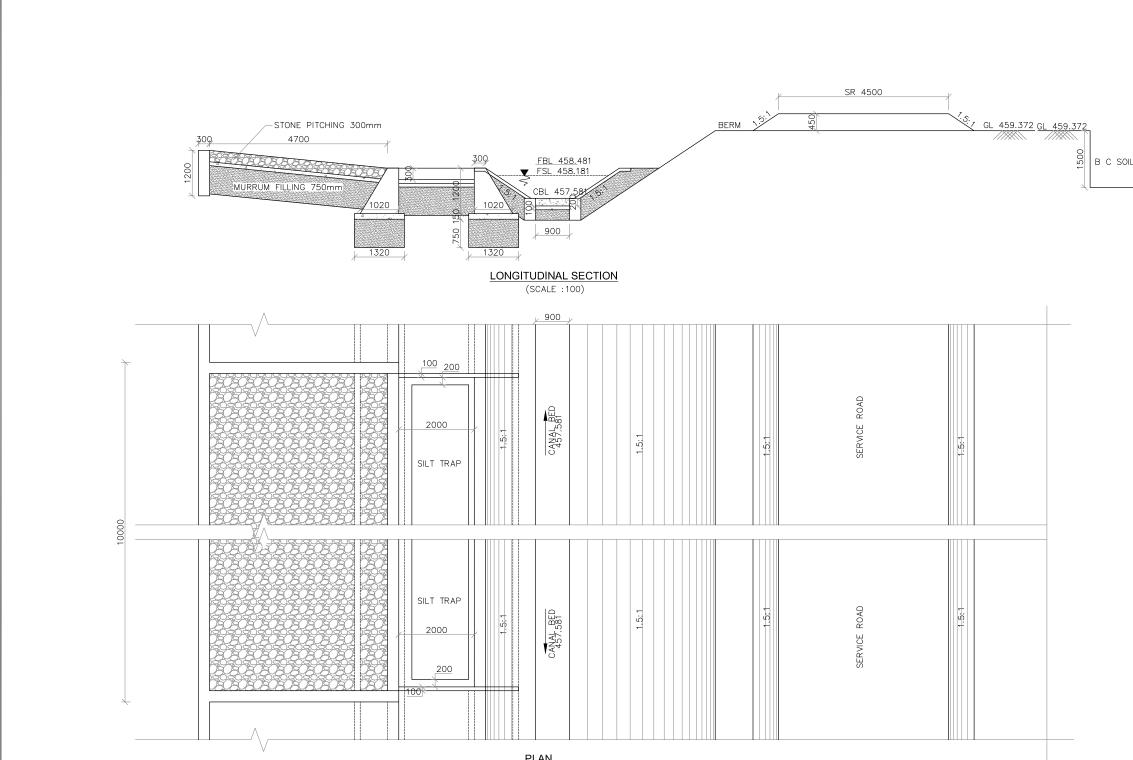


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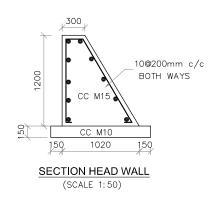
NOTES 1) ALL DIMENSIONS ARE IN MIL ARE IN METRES.					
<ol> <li>DO NOT SCALE THE DRAWING.WRITTEN DIMENSIONS ONLY SHALL BE FOLLOWED.</li> <li>GRADE OF CONCRETE : CONFORMING TO IS 456-2000 (I) LEVELLING COURSE IN FOUNDATION - CC M10 WITH</li> </ol>					
<ul> <li>40mm AND DOWN SIZE COARSE AGGREGATE.</li> <li>(ii) WING WALLS, ABUTMENT AND RETURN WALL – CC M15 WITH 40mm.AND DOWN SIZE COARSE AGGREGATE.</li> <li>(iii) ABUTMENT CAP, DIRTWALL, PIER, PIER RAFT, DECK SLAB AND</li> </ul>					
SIDE WALL – CC M20 WI COARSE AGGREGATE. (IV) CUT OF WALLS,CANAL LII M15 WITH 20mm AND DO	NING AND HEA	D WALLS - CC			
<ul> <li>4) BACK FILLING SHALL BE DO RAISING OF THE STRUCTURE LESS THAN 28'.</li> </ul>	NE SIMULTANE	OUSLY WITH THE			
<ul> <li>5) ALL REINFORCEMENT SHALL DE FORMED BARS (GRADE I</li> <li>6) SHARP EDGES OF CONCRETI</li> <li>7) FILLING BEHIND ABUTMENTS</li> </ul>	DESIGNATION F E SHALL BE CI	e415 ). HAMFERED.			
PER RELEVANT IRC SPECIFIC 8) ADEQUATE WEEPHOLES SHA RETURNS AND OUTER WALL	CATIONS. LL BE PROVIDE S OF BOX AT Y AND 1000m	ED IN ABUTMENTS, NOT MORE THAN m C/C VERTICALLY			
UP TO THE BED LEVEL.	WEEFHOLES SI	ALL DE PROVIDED			
0 For Approval Rev. Description.	Date.				
CLIENT (A GOVT. OF KAR		GAM LIMITED DERTAKING)			
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					
DRAWING TITLE CONSTRUCTION OF SUPER PASSAGE AT					
CH: 2+950 Km OF SI           Date         Drw.         Pre.         Chk.         A	pp. Scale.	Drawing Status.			
Project No. Drawing No. KNNL-VNC-SGC-	AS SHOWN	FOR APPROVAL           Sheet No.         Rev.           01 of 02         0			
the an	ill	SMM			
E i Technologies Pvt. Ltd. VNC Bangatore Ka	culivé Engineer SúbiDMision amelopur	Executive Engineer TR Envision No.1 Munirabod			
	Recon Rule				
Tungabhadra Project Circle Munirabad	Irrigatio	of Engineer n Central Zone Aurirabad			



	NOTES			
	1) ALL DIMENSIONS	ARE IN MILLIME	TRES AND	REDUCED LEVELS
	ARE IN METRES			
	2) DO NOT SCALE T	HE DRAWING.WF	RITTEN DIME	INSIONS ONLY
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		Approval		
		ription.	Date. I	Drw. Pre. Chk. App.
	CLIENT KARNAT	AKA NEERA		
		L OF KARNAT		
		BANGALOF		
	CONSULTANT F			
		Technolog	gies Pvt	Ltd.,
c/c		(ISO 9001 : 2 19, 26th Main, J	008 Certifie	d)
	# 112 Beng	49, 26th Main, Ji aluru—560 041, I	ayanagar 4t ndia.	п і віоск,
	Ph.+	91.80.40914714,	Fax: +91.80.	26650912
	info@	eitech.in•www.eit	ech.in	
	PROJECT TITLE			
	MODERNISAT	ION OF VIJA	(ANAGAF	A CHANNELS
	IN TUN	IGABHADRA	PROJEC	г
	DRAWING TITLE			
	CH: 2+950	Km OF SIRU		
	Date Drw. Pr			Drawing Status.
	· · ·		AS SHOWN	FOR APPROVAL
	Project No. Drawing		_	Sheet No. Rev.
	KNNL	VNC-SGC-STR	-SP-005	02 of 02 0
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	-01-	Blend	-	-www.
	Consultant E I Technologies Pvt. Ltd	Asht Executive	é Engineer Malon	Executive Engineer TE Emision No.1
	Bangalore	Komele	pur	Munirabod
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	Superintending E Tungabhadra Proje Munirabad	ngineer	Chie	f Engineer
	Tungabhadra Proje Munirabad	ici Girčie	Irrigation	f Engineer o Central Zone unirabad

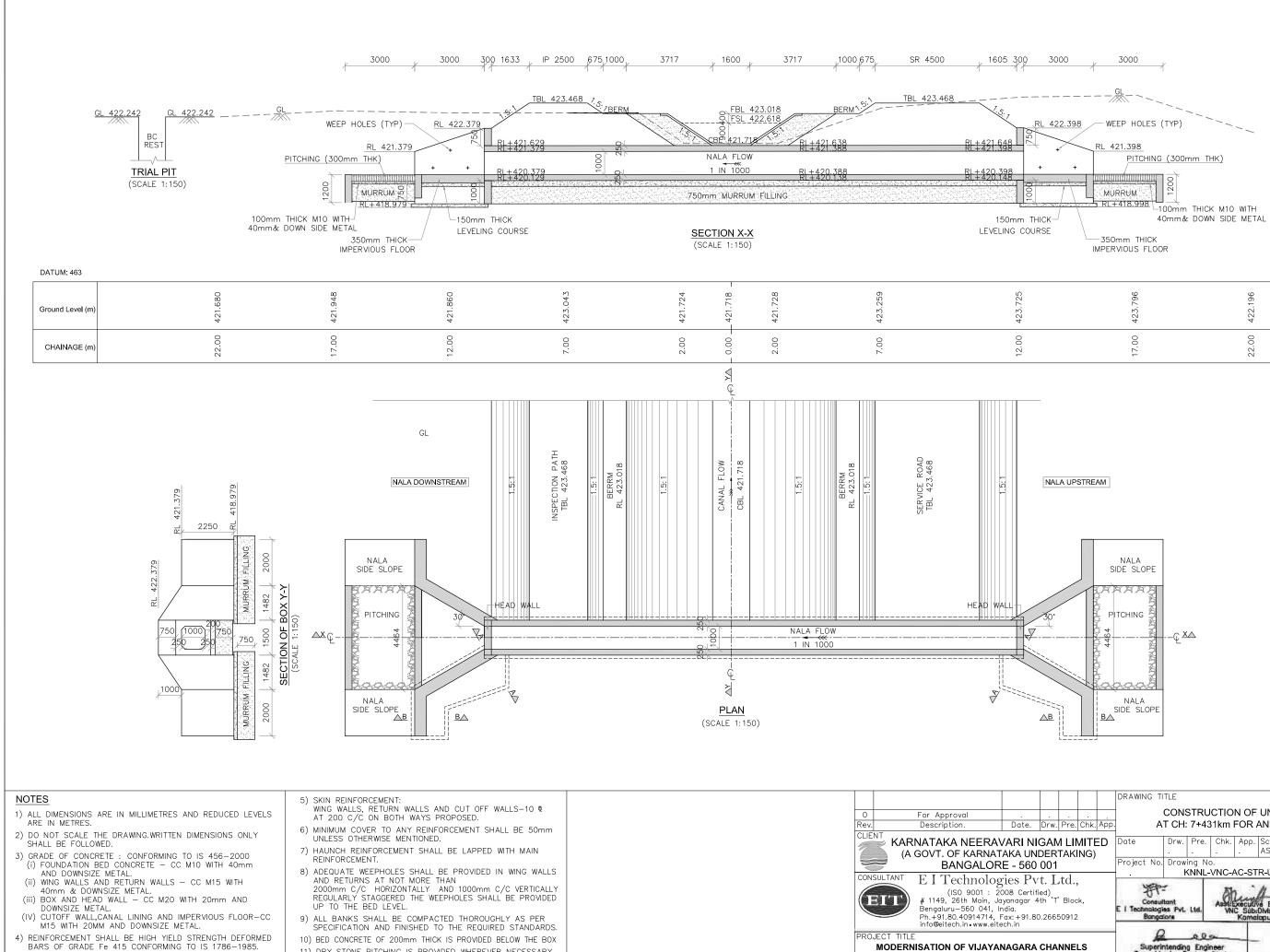


PLAN (SCALE :100)



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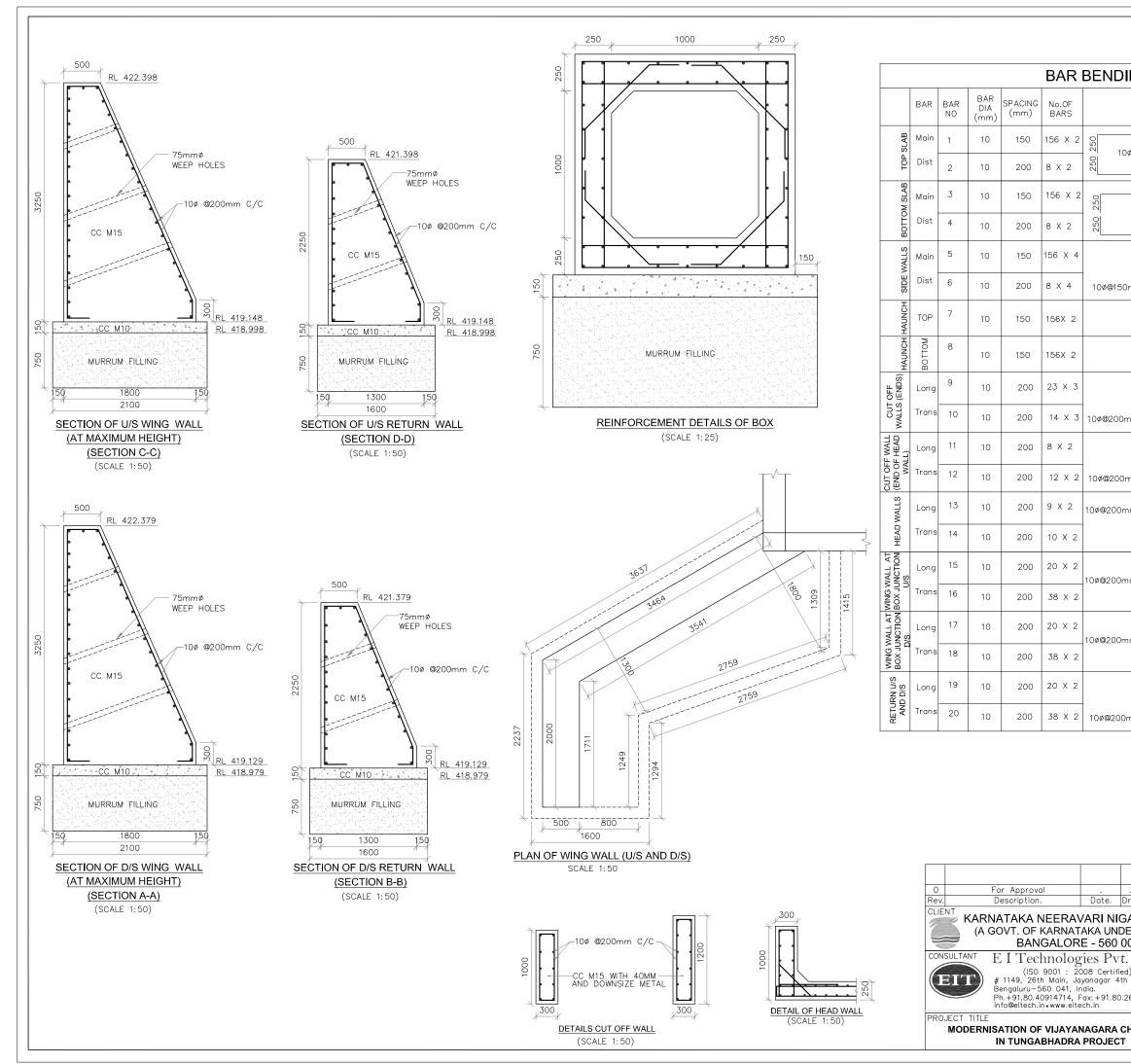
GL 459.372	ARE IN METRES. 2) DO NOT SCALE THE DRAWING SHALL BE FOLLOWED. 3) GRADE OF CONCRETE : (I). CC M10 WITH 40mm DOW BED CONCRETE. (II). CC M15 WITH 40mm DOW SILT TRAP (III). CC M15 WITH 20mm DOW TRAP, CUT OFF WALLS, O	WNSIZE METAL – FOUNDATION WN SIZE METAL – HEAD WALLS WN SIZE METAL – BELOW SILT CANAL PORTION. WN SIZE METAL FOR DECK SLAB & AT 200mm C/C BOTH WAYS THE REINFORCEMENT SHALL BE MENTIONED. DVIDED WHEREVER NECESSARY.
	(A GOVT. OF KARI BANGAL CONSULTANT E I Techno (ISO 9001 # 1149, 26th Mai Bengaluru-560 04 Ph.+91.80.409147 info@eitech.in.www PROJECT TITLE MODERNISATION OF VI. IN TUNGABHADD DRAWING TITLE CONSTRUCTIO CH : 2+385km OF H Date Project No. Drawing No. KNNL-VNC-HC-ST	14, Fax: +91.80.26650912 v.eitech.in JAYANAGARA CHANNELS RA PROJECT N OF INLET AT HULUGI CHANNEL Drawing Status. AS SHOWN FOR APPROVAL Sheet No. Rev.
63	Superintending Engineer Tungabhadra Project Circle Munirabad	Chief Engineer Irrigation Central Zone Munimutad



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17.00	22.00

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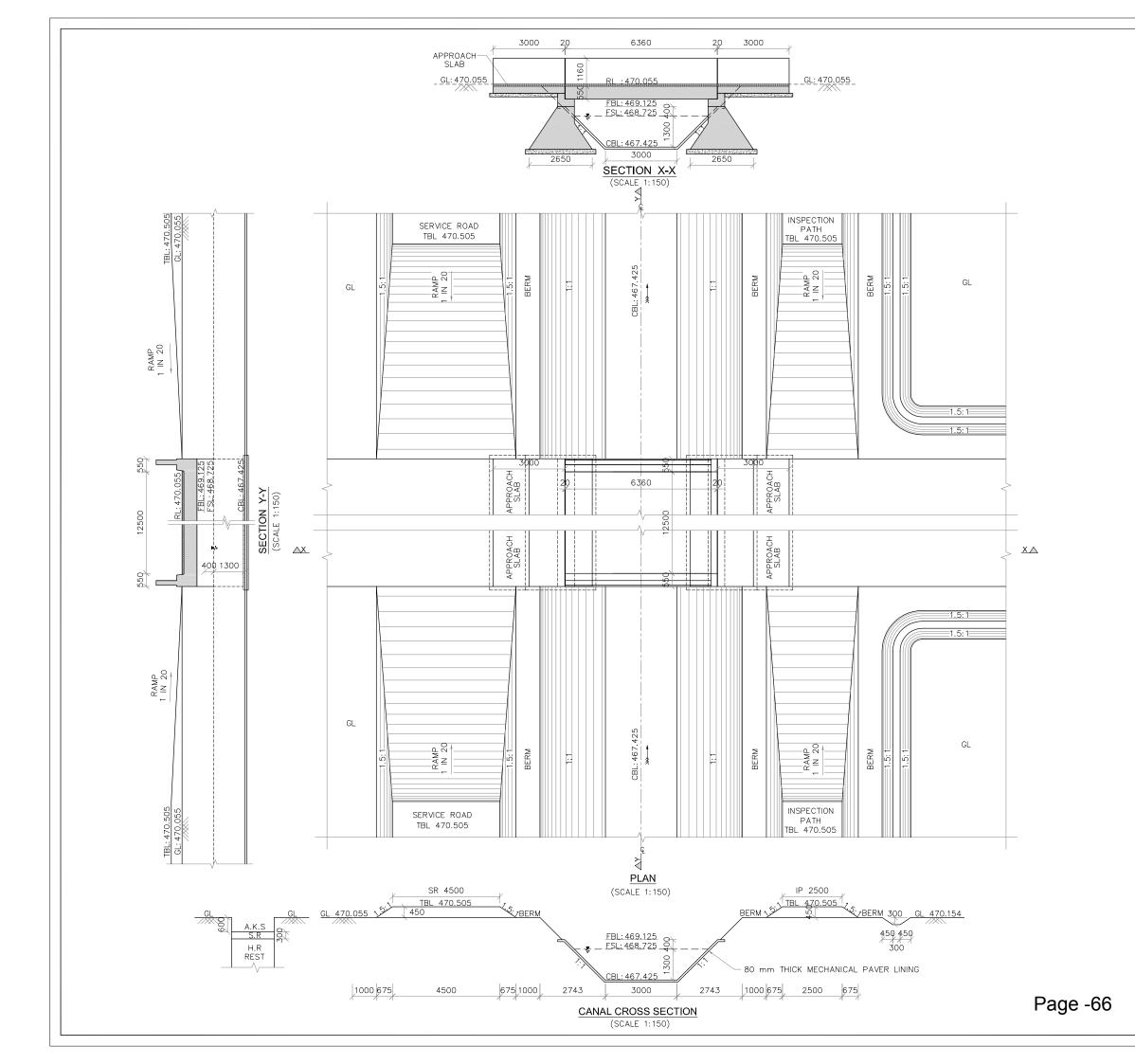
	DRAWING TITLE					
· · · · · ·	CONSTRUCTION OF UNDER TUNNEL					
Drw. Pre. Chk. App.	AT CH: 7+431km FOR ANEGONDI CANAL					
AM LIMITED	Date Drw. Pre. Chk. App. Scale. Drawing Status. AS SHOWN FOR APPROVAL					
)01	Project No. Drawing No. Sheet No. Rev. KNNL-VNC-AC-STR-UT-007 01 of 02 0					
. Ltd., d) 'T' Block, 26650912	Consultant E I Technologies PVL Ltd. Bangaiore					
HANNELS	Superintending Engineer Tungabhadra Project Circle Munirabad					



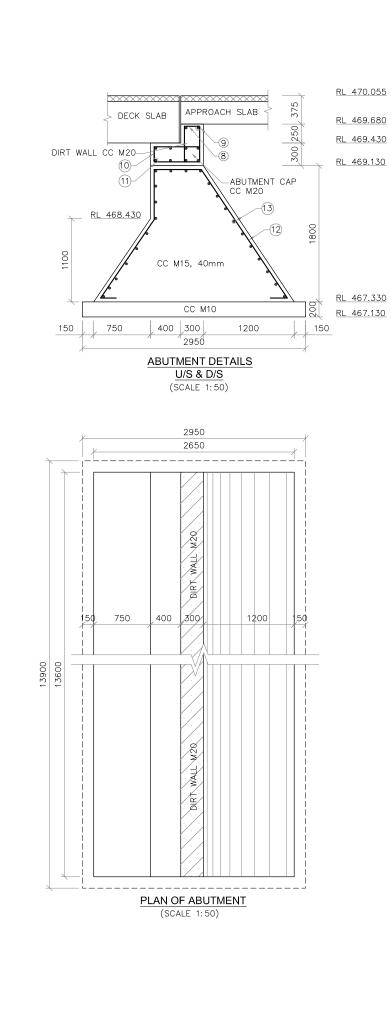
ING SCHEDULE OF BOX CULVERT							
SHAPE OF BARS (ALL DIMENSIONS ARE IN mm) (NOT TO SCALE)	LENGTH OF EACH BAR(mm)	TOTAL LENGTH (m)	UNIT WT (kg/m)	TOTAL WT (kg)			
1380 00 100@200mm(2)	1880	586.56	0.617	363.67			
1380	23122	369.95	0.617	229.37			
1380 0 12¢@150mm(4)	1880	586.56	0.617	363.67			
1380 N	23122	369.95	0.617	229.37			
250 00 10¢@200mm(6)	1880	1173.12	0.617	727.33			
Dmm(5)	23122	739.90	0.617	458.74			
150 150 10¢@150mm(7)	1078	336.33	0.617	208.52			
150 778 <u>150</u> 10ø@150mm(8)	1078	236.33	0.617	208.52			
200 10¢@200mm(10)	2800	193.20	0.617	119.12			
mm(9)	4564	191.69	0.617	118.18			
200 10Ø@200mm(12)	2400	38.40	0.617	23.68			
mm(11)	1600	38.40	0.617	23.68			
220 nm(13) 0 100@200mm(14)	3080	55.44	0.617	34.18			
200 600	1620	32.40	0.617	19.98			
nm(15)	7600	304.00	0.617	187.43			
nm(15)	200	15.20	0.617	9.37			
nm(17)	7600	304.00	0.617	187.43			
nm(17)	200	15.20	0.617	9.37			
400 0 0 0 0 0 0 0 0 0 0 0 0	5480	219.20	0.617	135.15			
0mm(19)	1702	129.35	0.617	79.75			
		TOTAL	= 3736	6.51Kg			
	ADD 5% \	WASTAGE	= 186.	82			
		TOTAL	= 392	3.33Kg			
		SAY	= 392	4Kg			

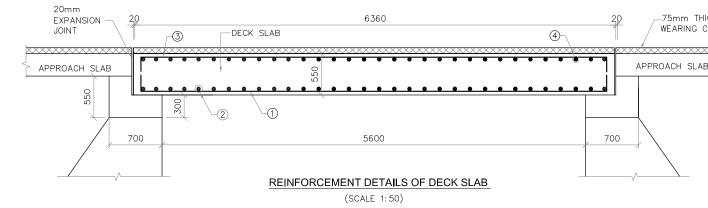


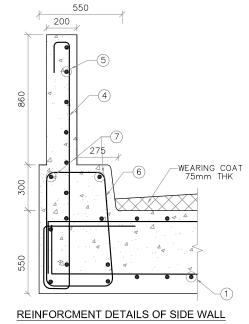
CHANNELS	Superintending Engineer Tungabhadra Project Circle Munirabad			+	Chik Irrigation	2 of Engineer n Central Zon Junirabad		
с. Ltd., <sup>rd)</sup> 'T' Block, 26650912	E I Technologi Bangal	as Pyl.	L1d.	ASSIL	xecula C Sube Kamal	e Engineer DMsion opur	Executive En TR envision Muniraba	No.1
)01 <sup>´</sup>	Project No.		5		AC-ST	R-UT-007	Sheet No. <b>02 of 02</b>	Rev. 0
GAM LIMITED DERTAKING)	Date	Drw.	Pre.	Chk.	App.	Scale. AS SHOWN	Drawing St FOR APPRO	
 Drw. Pre. Chk. App.	CONSTRUCTION OF UNDER TUNNEL AT CH: 7+431km FOR ANEGONDI CANAL							
	DRAWING TI	TLE						



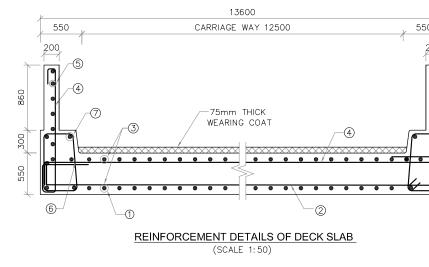
Superit Tungabh	ntending Eng adra Projec Munirabad	pineer 1 Circle	Ch Irrigati	lief Engineer on Central Zone Munirabad
G	2.00	- N		Munirabad
Consul E i Technologi Bonga	tant es Pvt. Ltd. iore	Asst	subvolute Engineer SubvOluteion amelopur	Executive Engine TE emision No.
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Project No.			TR-MRB-000	Sheet No. Re 01 of 03 (
Date	Drw. Pre	. Chk. A	AS SHOW	Drawing Status
			TRUCTION OF	F MAJOR ROAD CHANNEL
DRAWING TI	TLE			
	RNISATIO		IJAYANAGA DRA PROJEC	RA CHANNEL
PROJECT TI	in fo@ei	itech.in•wv	714, Fax:+91.80 ww.eitech.in	J.2000U912
EIT	🖊 Bengal	),`26th Mc uru-560 (	iin, Jayanagar 4 )41, India.	lth´'T'Block,
CONSULTAN		Гесhno	ologies Pv 1 : 2008 Certif	rt. Ltd.,
	(A GOVT.	OF KAF		DERTAKING)
Rev. CLIENT			Date. RAVARI NI	Drw. Pre. Chk. A GAM LIMITEE
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PER REV	ELENT IRC	SPECIFIC	A HUNS.	
7) FILLING I	BEHIND AB	UTMENTS		HAMFERED. S SHALL BE AS
5) ALL REIN	FORCEMEN		BE OF HIGH " DESIGNATION F	YIELD STRENGTH e415 ).
	OF THE S			OUSLY WITH THE JE OF SOIL NOT
SIDE	WALL, HAND	RAILS,KE	ERBS AND WEA	AFT,DECK SLAB RING COAT – RC \RSE AGGREGATE
SLAB AGGR	- CC M15 EGATE.	5 WITH 40	Dmm.AND DOW	AND APPROACH IN SIZE COARSE
(I) LEVEL 40mr	LING COUF	RSE IN FO WN SIZE '	NFORMING TO I DUNDATION - COARSE AGGRI	CC M10 WITH EGATE.
SHALL B	E FOLLOW	ED.		IENSIONS ONLY
ARE IN M		re in Mil	LIMETRES AND	REDUCED LEVE

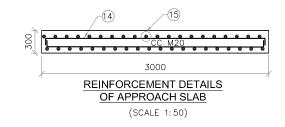




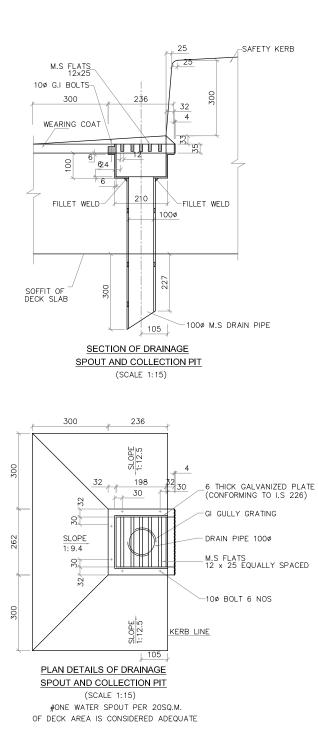


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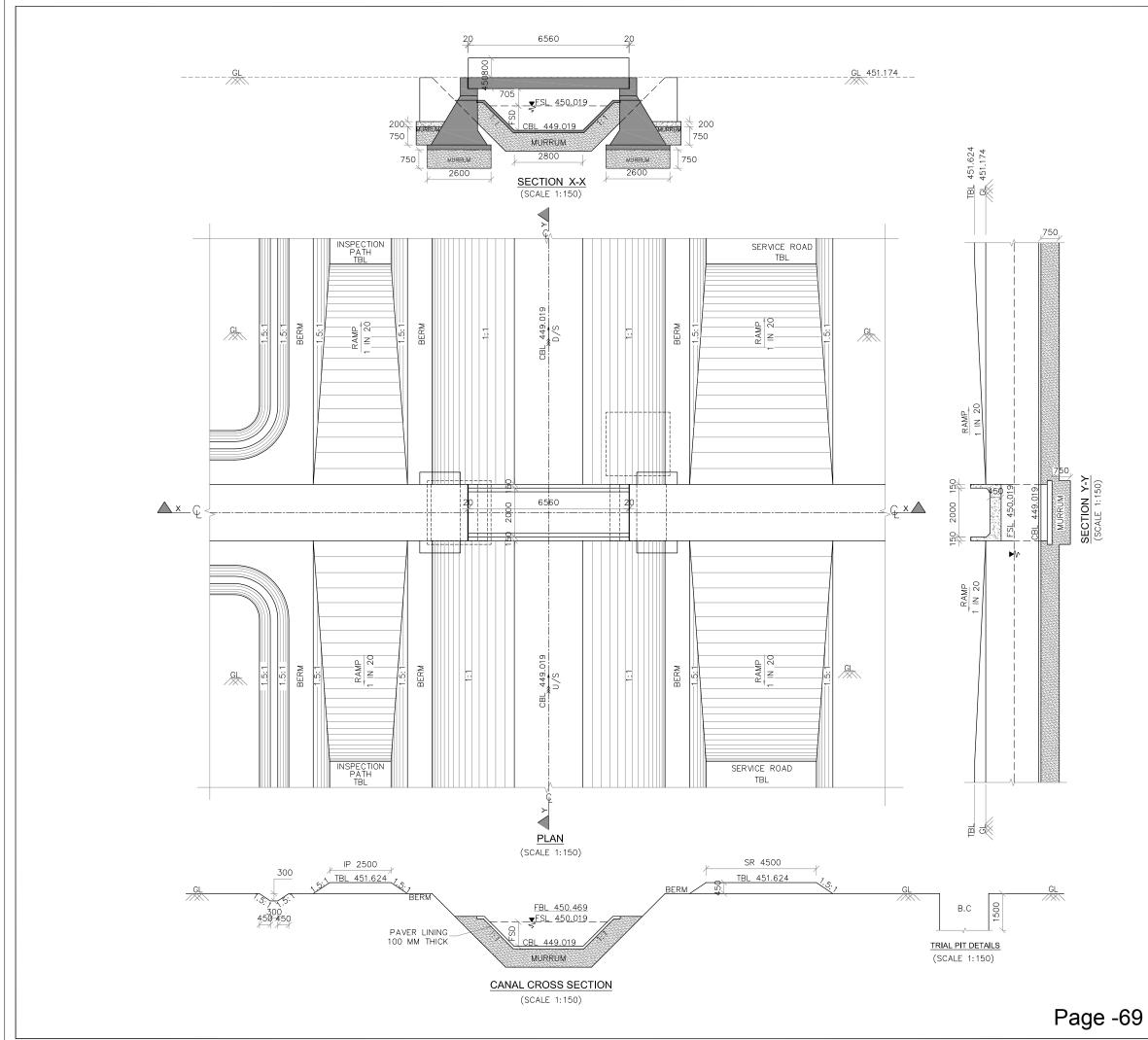
	NOTES	
	<ol> <li>ALL DIMENSIONS ARE IN MILI LEVELS ARE IN METRES.</li> </ol>	LIMETRES AND REDUCED
	2) DO NOT SCALE THE DRAWING	G.WRITTEN DIMENSIONS ONLY
	SHALL BE FOLLOWED.	
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		RAVARI NIGAM LIMITED
		NATAKA UNDERTAKING)
		ORE - 560 001
		logies Pvt. Ltd.,
	(130 9001) # 1149, 26th Mair	: 2008 Certified) n, Jayanagar 4th 'T' Block,
	Bengaluru-560 04	41, India.
	Ph.+91.80.409147 info@eitech.in•www	14, Fax: +91.80.26650912 w.eitech.in
	PROJECT TITLE	
		JAYANAGARA CHANNELS
	IN TUNGABHAD	
	DRAWING TITLE	
		RUCTION OF MAJOR ROAD
	BRIDGE AT CH:8+196kr	m FOR RAYA CHANNEL
	Date Drw. Pre. Chk. Ap	pp. Scale. Drawing Status.
	<u> </u>	AS SHOWN FOR APPROVAL
	Project No. Drawing No.	Sheet No. Rev.
	KNNL-VNC-RC-S	TR-MRB-000 02 of 03 0
	YEP: IN.	A SHIM
	Consultant Assortion	with Ender
	E I Technologies Pvt. Ltd. VNC S	Subvoltation TE-emision No.1
	Bangalore Ko	Munirabod
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e -67	Superintending Engineer Tungabhadra Project Circle Nunirabad	Chief Engineer Irrigation Central Zone Munimabad
	MUNICUDUD	Munirabad



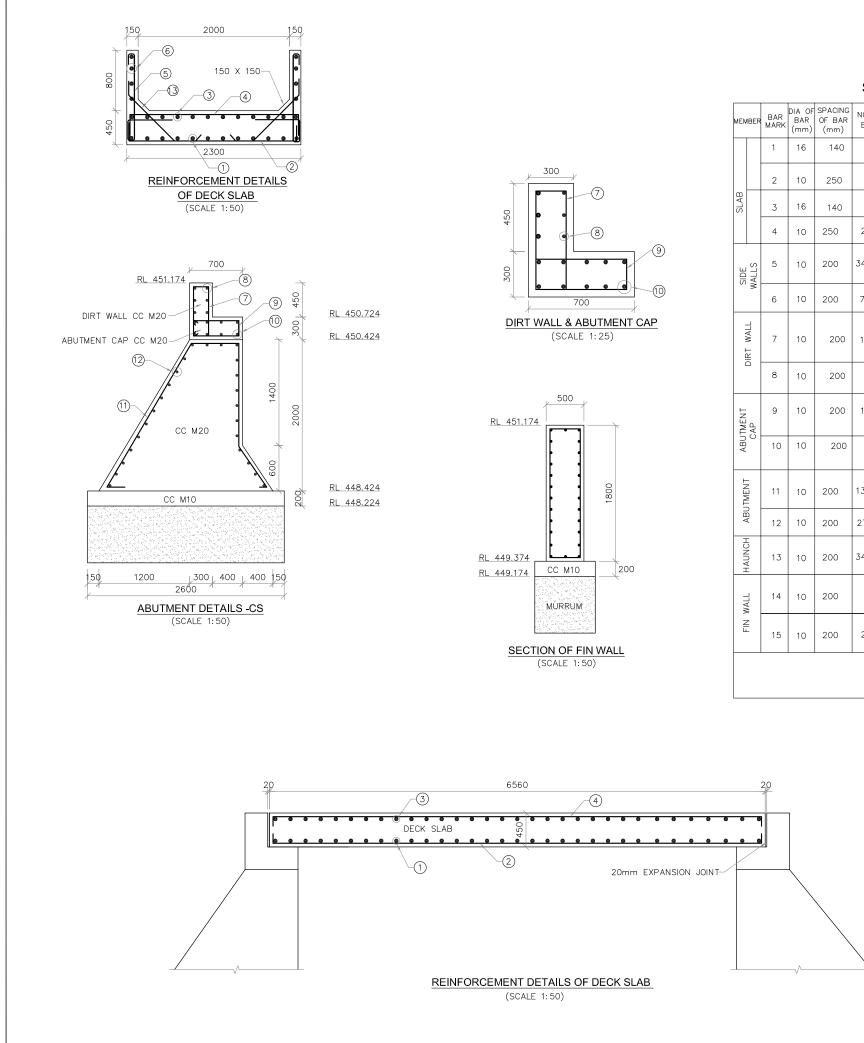
VEMBER	BAR MARK	DIA OF BAR (mm)	SPACING OF BAR (mm)	NO.OF BAR	(DIMENSION	OF BAR I ARE IN O SCALE	MM)	LENGTH OF EACH BAR (mm)	TOTAL LENGTH IN METRES	UNIT WEIGHT IN Kg/m	TOTAL WEIGHT IN Kg
	1	20	140	98	<u></u>	1) 6260	200	6660	652.68	2.47	1609.82
В	2	12	150	43	150	13500 ©	150	13800	593.40	0.89	526.90
SLAB	3	20	140	98		3 6260	200	6660	652.68	2.47	1609.8
	4	12	150	43	-	(4) 13500	150	13800	593.40	0.89	526.90
SIDE WALLS	5	10	200	33x2	100 <sup>100</sup> 1610 300 400 100	5		2760	182.16	0.62	112.32
~ ≥	6	10	200	6x2	150	6260	و ا5ر	6560	78.72	0.62	48.54
KERB	7	10	200	33x2	750	400 450	7	2352	155.21	0.62	95.71
Υ.	8	10	200	13x2	150	(8) 6260	150	6560	170.56	0.62	105.17
WALL	9	10	200	69x2	C L L	200 G 200 200	9	1500	207.00	0.62	127.64
DIRT WALL	10	10	200	2x2	150	13500	150	13800	55.20	0.62	34.04
ABUTMENT CAP	11	10	200	69x2	200	600 600	(11)	1800	248.40	0.62	153.17
ABU	12	10	200	10x2	150	13500	15 02	13800	276.00	0.62	170.19
ABUTMENT	13	10	200	69x2	2094 100	650	13	4651	641.82	0.62	395.75
ABU	14	10	200	25x2	150	13500	(14) (14) (14)	13800	690.00	0.62	425.47
DACH AB	15	12	150	91x4	100	(15) 2900	100	3100	1128.4	0.89	1001.94
APPROACH SLAB	16	10	150	22x4	100	13500 (16)	100	13700	1205.6	0.62	743.39

ASTAGE = 304.04 kg TOTAL = 8071.09 kg SAY = 8100 kg

2) DO NOT SCALE THE DRAWING.WRITTEN DIMENSIONS ONLY SHALL BE FOLLOWED.         Q       For Approval         Line For Approval       i         Rev.       Description.         Data       Drw.         Provide       Description.         Provide       Description.         Provide       Description.         Provide       Provide         Provide       Description.         Provide       Description.         Provide       Description.         Provide       Description.         Provide       Description.	A 200	1	0
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SHALL BE FOLLOWED.         Image: Stall be followed.			
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Image: Shall be followed.         Image: Shall be followed.         Image: Shall be followed.         Image: Shall be followed.         Image: Description.	Bengaluru-560 ( Ph.+91.80.40914	041, India. 714, Fax:+91.8	
For Approval       i <t< td=""><td></td><td>1 : 2008 Certif</td><td>ied)</td></t<>		1 : 2008 Certif	ied)
O       For Approval       i <t< td=""><td>BANGA</td><td>LORE - 560</td><td>001</td></t<>	BANGA	LORE - 560	001
0         For Approval         . <t< td=""><td></td><td></td><td></td></t<>			
		Date	Drw. Pre. Chk. A
2) DO NOT SCALE THE DRAWING WRITTEN DIMENSIONS ONLY		NG. WITTEN DI	MENSIONS ONET
1) ALL DIMENSIONS ARE IN MILLIMETRES AND REDUCED LEVELS ARE IN METRES.	LEVELS ARE IN METRES.		
NOTES	1) ALL DIMENSIONS ARE IN MIL	LIMETRES AND	



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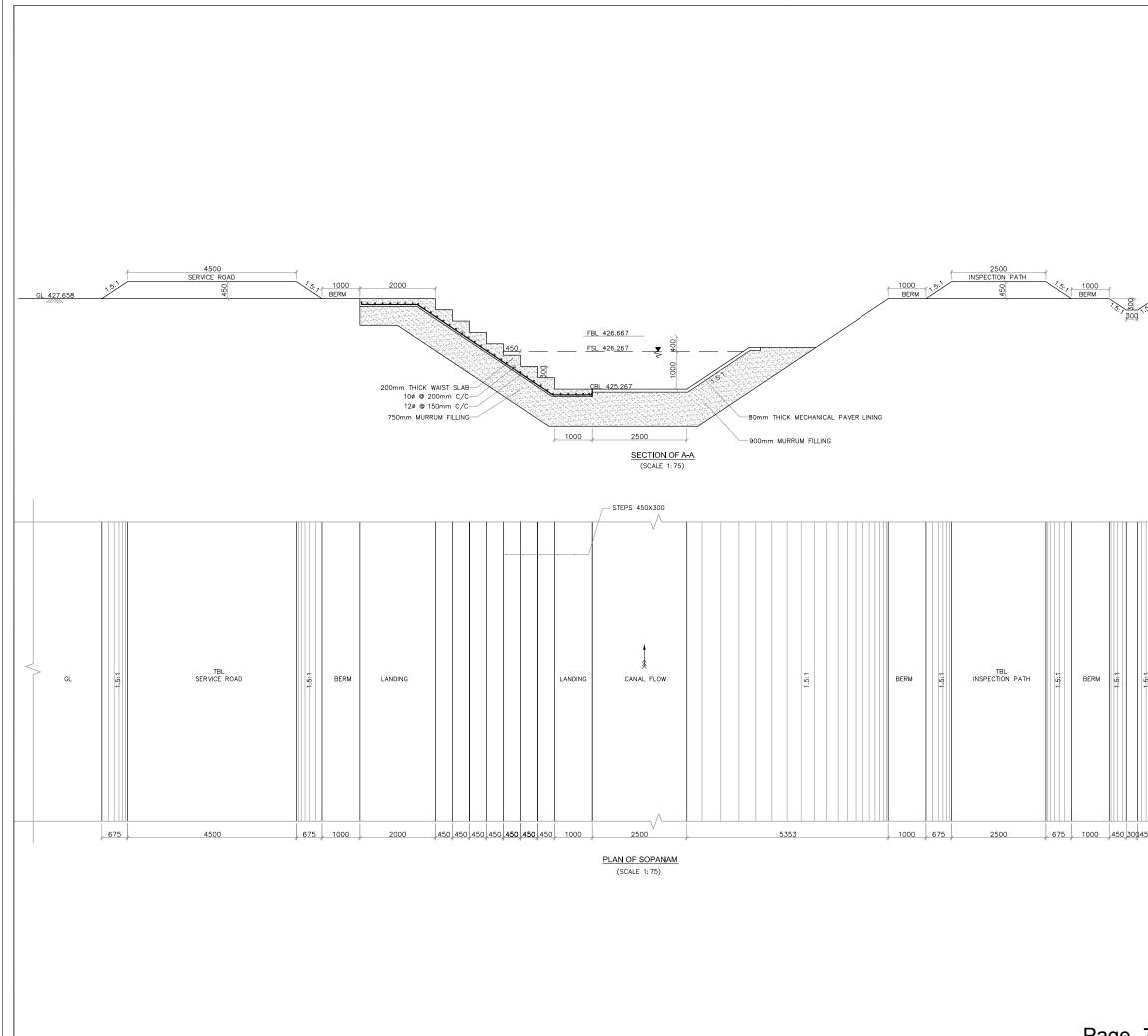


### SCHEDULE OF REINFORCEMENT

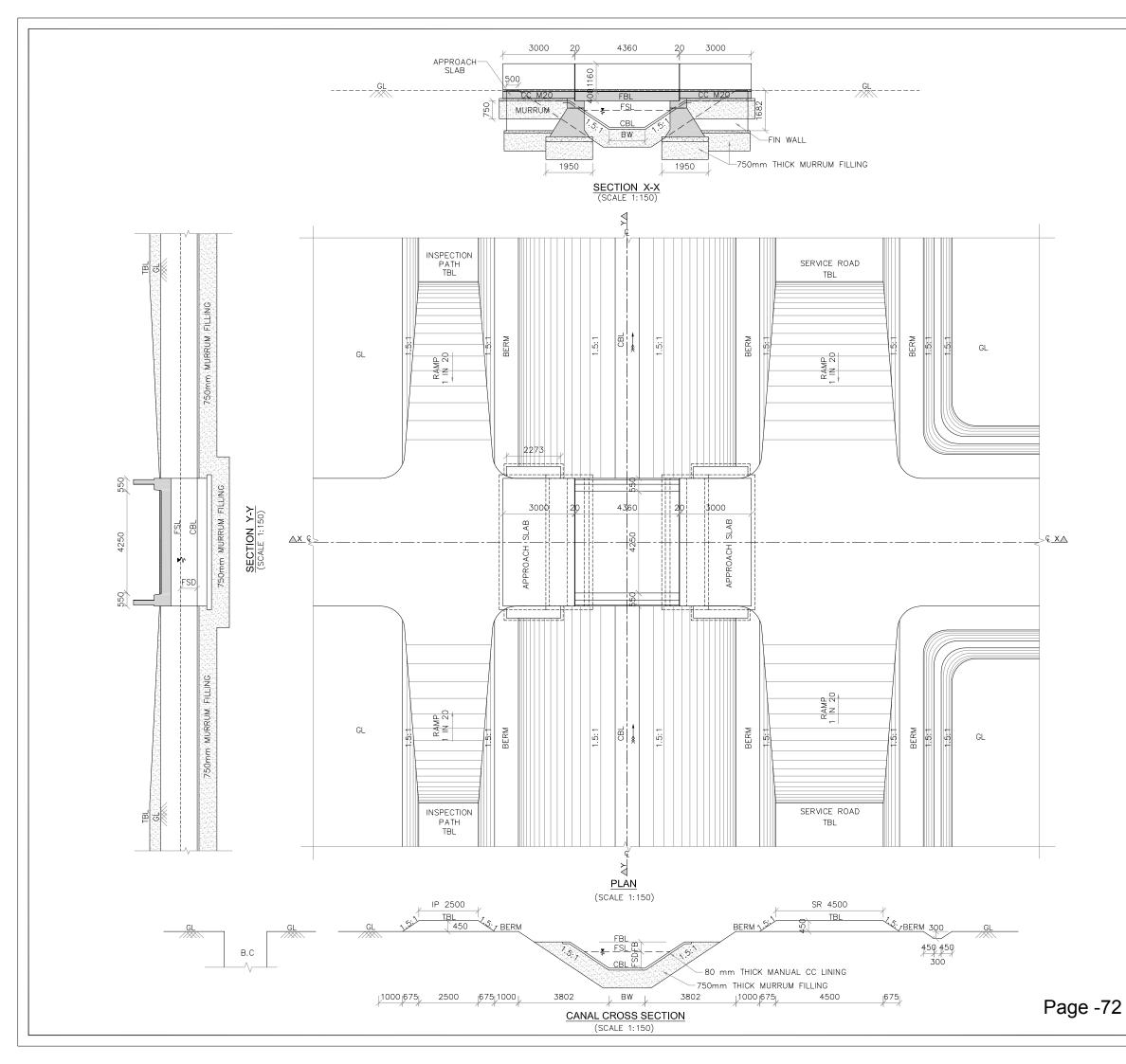
BAR MARK 1 2 3 4	BAR (mm) 16 10	SPACING OF BAR (mm) 140 250	NO.OF BAR 17	SHAPE OF BARS (DIMENSION ARE IN MM) (NOT TO SCALE) 6460	1	LENGTH OF EACH BAR (mm) 6460	TOTAL LENGTH IN METRES	UNIT WEIGHT I Kg/m 1.58
2 3	10		17		1	6460	109.820	1.58
3		250						
		<u> </u>	27	ê	2	2400	64.8	0.62
4	16	140	17	6460	- 3	6460	109.820	1.58
	10	250	28	ê 2200	4	2400	64.8	0.62
5	10	200	34X2	100 800 100 400 350 350 100	5	2300	156.4	0.62
6	10	200	7X2	6460	- 6	6460	90.44	0.62
7	10	200	10X2	200 55	7	1700	34	0.62
8	10	200	9X2	2200	8	2200	39.6	0.62
9	10	200	13X2		9	1600	41.6	0.62
10	10	200	9X2	2200	- (10)	2200	39.6	0.62
11	10	200	13X2	600 1400 671/ 100 100	(1)	5104	132.704	0.62
12	10	200	27X2	2200	_ (12)	2200	118.80	0.62
13	10	200	34X2	100	(13)	815	55.42	0.62
14	10	200	7	1700 (14) 1700		4200	29.4	0.62
15	10	200	22	400 1060 <sup>(15)</sup>	_	1060	23.32	0.62
						1		
	10 11 12 13	10     10       11     10       12     10       13     10       14     10	I         I <thi< th=""> <thi< th=""> <thi< th=""> <thi< th=""></thi<></thi<></thi<></thi<>	Image: Non-Structure         Image: No	Image: Non-Section of the section	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	10       10       200       9X2 $2200$ $9$ $2200$ 11       10       200       13X2 $\frac{1400}{100}$ $2232$ $10$ $5104$ 11       10       200       13X2 $\frac{1400}{100}$ $2232$ $10$ $5104$ 12       10       200       27X2 $2200$ $12$ $2200$ $12$ $10$ $200$ $34X2$ $34X2$ $34X2$ $34X2$ $345$ $315$ 14       10       200       7 $1700$ $1700$ $1700$ $4200$ 15       10       200       22 $1060$ $1060$ $1060$	10       10       200       9X2       2200 (0)       2200 (0)       2200 (10)       2200 (10)       39.6         11       10       200       13X2 $\frac{1400}{671}$ 2232 (10)       10       5104       132.704         12       10       200       27X2       2200       (12)       2200       118.80         13       10       200       34X2 $\frac{400}{150}$ (13)       815       55.42         14       10       200       7 $\frac{400}{1700}$ 1700       4200       29.4

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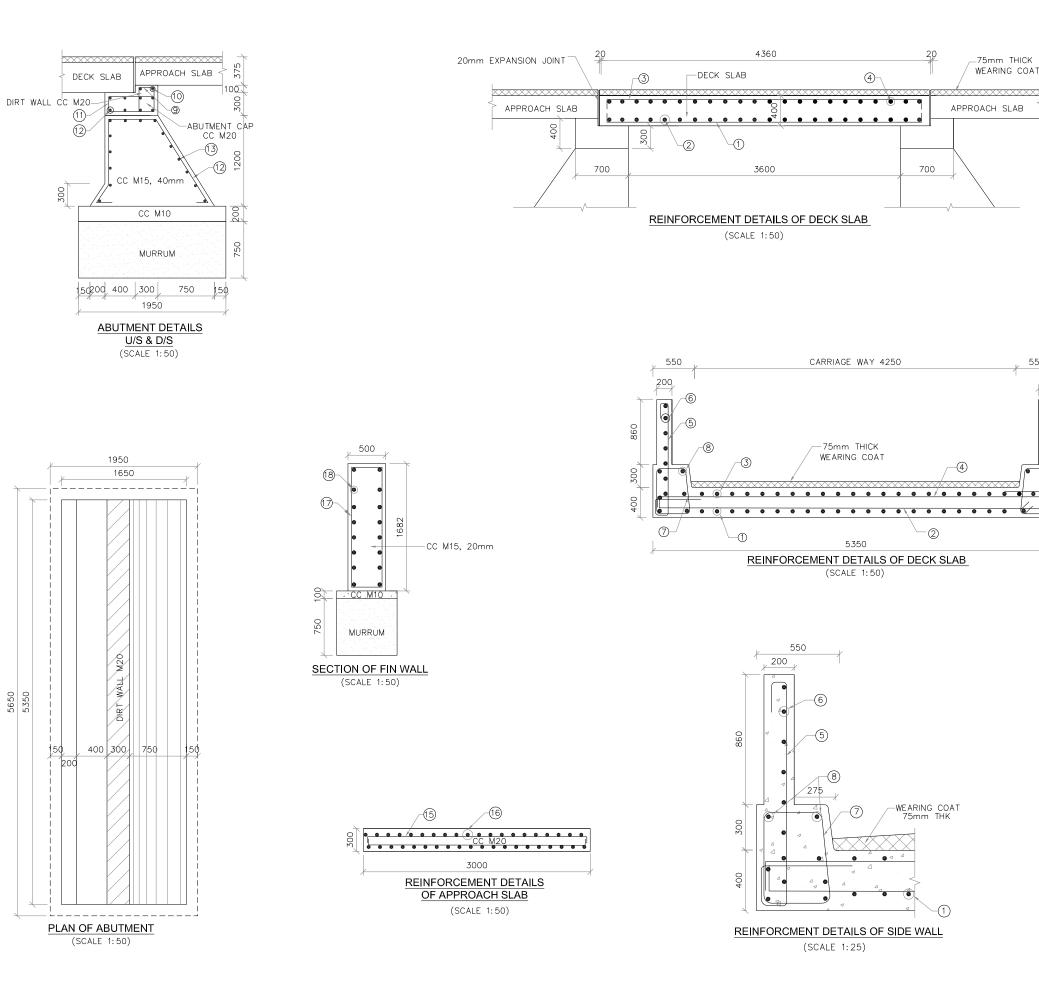
		NOTES		
		1) ALL DIMENSIONS ARE IN ARE IN METRES.	N MILLIMETRES AND	REDUCED LEVELS
		2) DO NOT SCALE THE DR SHALL BE FOLLOWED.	AWING.WRITTEN DIME	ENSIONS ONLY
IN	TOTAL WEIGHT			
٦ ا	IN Kg 173.515			
2	40.17			
8	173.515			
	40.17			
	96.968			
2	56.07			
	21.08			
	24.552			
2	25.8			
2	24.552			
52	82.27			
52	73.65			
2	34.36			
2	18.23			
2	14.45			
89 44	9.35 Kg .96			
	45 Kg			
		0 For Approv Rev. Description		Drw. Pre. Chk. App.
			NEERAVARI NIO KARNATAKA UND	
		BAN	IGALORE - 560 (	001
			hnologies Pvt 9001 : 2008 Certifie th Main, Jayanagar 4t	
		Bengaluru-1 Ph.+91.80.4	11 Main, Jayanagar 40 560 041, India. 10914714, Fax:+91.80. in•www.eitech.in	
			HADRA PROJEC	
		CONSTRUCTION O	F FOOT BRIDGE A	
			nk. App. Scale. . AS SHOWN	Drawing Status. FOR APPROVAL
		Project No. Drawing No. KNNL-VNC-	KC-STR-FB-007	Sheet No.         Rev.           02 of 02         0
		1975	Brink	SMM
		Consultant As E i Technologies PvL Ltd. Bangaiore	WExecutive Engineer VNC SubiOMision Komelopur	Executive Engineer TR Brision No.1 Munirabod
.~	70	A elso	- 1	2 rece
je	e -70	Superintending Engineer Tungabhadra Project Circ Munirabad	ie Irrigatio V	of Engineer n Central Zone Junirabad



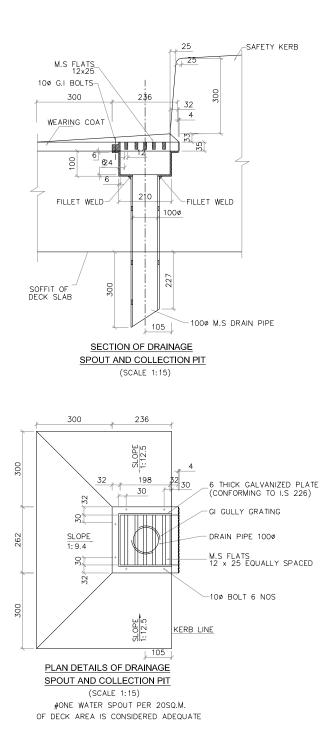
TBL 428.108 GL 427.658	NOTES 1) ALL DIMENSIONS ARE IN MILL ARE IN METRES. 2) DO NOT SCALE THE DRAWING SHALL BE FOLLOWED. 11	LIMETRES AND REDUCED LEVELS G.WRITTEN DIMENSIONS ONLY
GL 6L 71	(A GOVT. OF KARI BANGAL CONSULTANT E I Techno (ISO 9001 # 1149, 26th Mai Bengaluru-560 04 Ph.+91.80.409147 info@eitech.in+www PROJECT TITLE MODERNISATION OF VI. IN TUNGABHAD DRAWING TITLE Construction of Sopanam at C Channel Date Date Date Project No. Drawing No. KNNL-VNC-TC-ST	14. Fax: +91.80.26650912         Vertech.in         JAYANAGARA CHANNELS         JAYANAGARA CHANNELS         JAYANAGARA CHANNELS         CH: 4+810 of Ramsagar         Drawing Status.         AS SHOWN FOR APPROVAL         Sheet No.         R-SPM-005         Of of 01         Output         Executive Colspan="2">Colspan="2">Executive Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"C
1	Superintending Engineer Tungabhadra Project Circle Munirabad	Chief Engineer Irrigation Central Zone Munirabad



NOTES AND SPECIFIC		<u>NS</u>			
1) ALL DIMENSIONS ARE IN ARE IN METRES.	MILLIM	etres ai	ND REDU	CED LE	VELS
2) DO NOT SCALE THE DR	AWING.W	RITTEN D	DIMENSION	IS ONL	Y
3) GRADE OF CONCRETE :	CONFO	RMING TO	) IS 456-	-2000	
<ul> <li>(I) LEVELLING COURSE II 40mm AND DOWN S</li> <li>(ii) RETAIN WALLS, WING</li> </ul>	IZE COA	RSE AGC	GREGATE.		Ц
SLAB – CC M15 WIT AGGREGATE.					
(iii) ABUTMENT CAP,DIRT SIDE WALL,HAND RAIL M20 WITH 20mm AN	_S,KERBS	S AND W	EARING C	oat -	RCC
4) BACK FILLING SHALL BE RAISING OF THE STRUC LESS THAN 28*.					
5) ALL REINFORCEMENT SH DE FORMED BARS (GRA	DE DESI	IGNATION	Fe415 )		TH
6) SHARP EDGES OF CONC 7) FILLING BEHIND ABUTME					S
PER REVELENT IRC SPE	CIFICATI	ONS.			
SI.No. C	HAINAGE		11840.00n	1	
1 Bed Widt 2 Full Supp	ply Dept	h(FSD)	1.50m 0.70m		
3 Side Slop 4 Free Boo	ard Leve		1.5:1 0.40m		
5 Service F 6 Inspectio		,	4500mm 2500mm	_	
0 For Approve Rev. Description		Date	. Drw. P	 re. Chk	App
(A GOVT. OF					
		RE - 56		AKING	)
		gies F 2008 Cer	vt. Lte	d.,	
# 1149, 26t Bengaluru-5	h Main,	Jayanagar	• 4th 'T' E	Block,	
Ph.+91.80.4 info@eitech.i			.80.26650	912	
PROJECT TITLE MODERNISATION O		YANAG			=1.5
IN TUNGAB					_L0
DRAWING TITLE TYPICAL DRAWING F	OR TH	E CONS	STRUCT		=
CART TRACK CROSSI	NG FOI	R ANEG	UNDI CH	ANNE	L
Date Drw. Pre. Ch · · ·	k. App.	Scale. AS SHO		ing Sta APPRO	
Project No. Drawing No. KNNL-VNC-AC	-TYP-S	TR-CTC-(		t No. of 03	Rev. 0
-175	Sh `	1.	0	SNW	1
Consultant E I Technologies PyL. Ltd.	VNC Sub	vé Engine Division	er Execu	tive Eng	No.1
Bangatore D	Kome	idpur /	a	Uniroboo	2
Superintending Engineer	-	-	Chief Engi	neer	_
Tungabhadra Project Circl Munirabad	18	Irrig	ation Cent Munirabi	al Zone	2



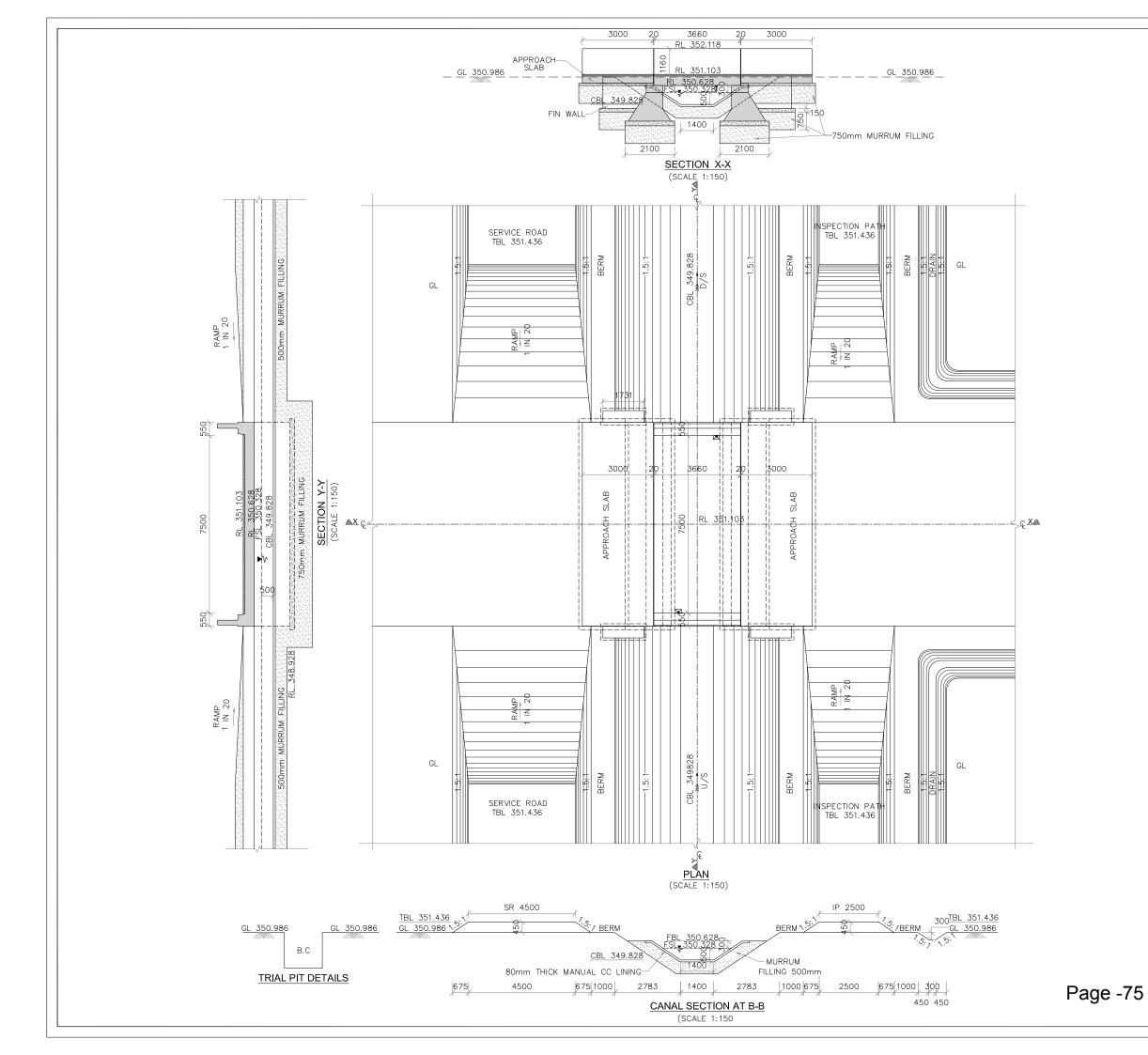
	NOTES 1) ALL DIMENSIONS ARE IN MILI	LIMETRES AND REDUCED
	2) DO NOT SCALE THE DRAWIN SHALL BE FOLLOWED.	G.WRITTEN DIMENSIONS ONLY
r X		
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	0 For Approval Rev. Description.	Date. Drw. Pre. Chk. App.
		RAVARI NIGAM LIMITED NATAKA UNDERTAKING)
	CONSULTANT E I Techno	ORE - 560 001 logies Pvt. Ltd.,
	Ph.+91.80.409147	: 2008 Certified) n, Jayanagar 4th 'T' Block, 41, India. 14, Fax: +91.80.26650912
	info@eitech.in•www PROJECT TITLE MODERNISATION OF VI	w.eitech.in
	IN TUNGABHAD	RA PROJECT
	TYPICAL DRAWING FOR T CART TRACK CROSSING F	OR ANEGUNDI CHANNEL
	.     .     .     .     .       Project No.     Drawing No.	pp. Scale. Drawing Status. AS SHOWN FOR APPROVAL Sheet No. Rev.
	KNNL-VNC-AC-TYP	-STR-CTC-009 02 of 03 0
	E i Technologies PvL. Ltd. Asstricted Bangatore Ka	utive Engineer ub/bhdson melapur Executive Engineer TE ension No.1 Munirabod
e -73	Superintending Engineer Tungabhadra Project Circle Nunirabad	Chief Engineer Irrigation Central Zone Munirabad
•	Nunirobod	Munirabad



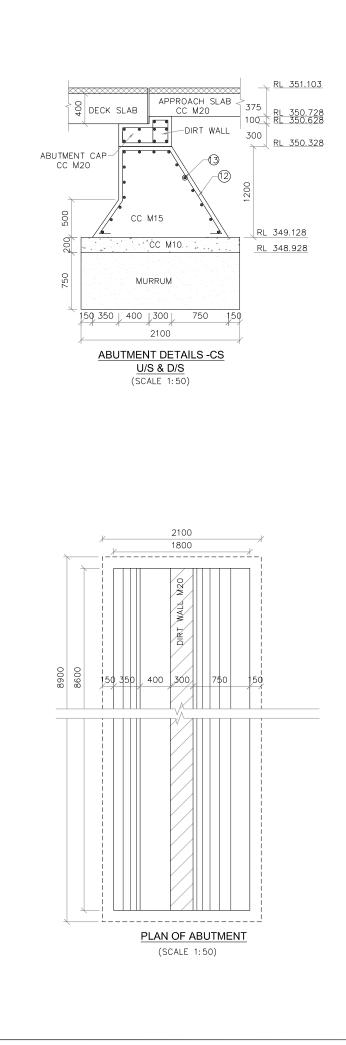
MEMBER	BAR MARK	DIA OF BAR (mm)	SPACING OF BAR (mm)	NO.OF BAR	SHAPE OF BARS (DIMENSION ARE IN MM) (NOT TO SCALE)	LENGTH OF EACH BAR (mm)		UNIT WEIGHT IN Kg/m	TOTAL WEIGHT IN Kg
	1	16	150	36	8 U B N 4260 N	4660	167.76	1.58	265.06
Б	2	10	200	23	<u>ຣິ</u>	5650	129.95	0.62	80.569
SLAB	3	16	150	36	(3) 4260	4260	153.36	1.58	242.3
	4	10	200	23	<u>(4)</u> 5250	5250	120.75	0.62	74.865
SIDE WALLS	5	10	200	23X2	$ \begin{array}{c} 100 \\ 100 \\ 1460 \\ 300 \\ 100 \\ 100 \end{array} $ (5)	2460	56.58	0.62	35.079
~ >	6	10	200	7X2	<u>(6)</u> 4260	4150	58.1	0.62	36.02
KERB	7	10	200	23X2	400 (7) (450) (450)	2500	115	0.62	71.3
¥	8	10	-	4X2		4260	34.08	0.62	21.1296
DIRT WALL	9	10	200	28X2	2000 R R 9 200	1400	78.4	0.62	48.608
DIRT	10	10	200	2X2	<u> </u>	5250	21.00	0.62	13.02
ABUTMENT CAP	11	10	200	28X2		2000	112	0.62	69.44
ABU C	12	10	200	9x2	5250 (12)	5250	94.5	0.62	58.59
ABUTMENT	13	10	200	28X2	$ \begin{array}{c} 700\\ 900\\ 361\\ 100\\ 100 \end{array} $ (13)	3577	200.31	0.62	124.2
ABU	14	10	200	19x2	14) 5250	5250	199.50	0.62	123.69
DACH AB	15	12	150	36X4	2900 E	3100	446.00	0.89	276.77
APPROACH SLAB	16	10	150	21X4	<u>8 5250 8</u> (6)	5450	457.80	0.62	283.84
WALL	17	10	200	13X4	400 1587	3256	169.31	0.62	104.97
FIN W	18	10	200	18X4	2273 (B)	2273	163.65	0.62	101.466
						5	5% WASTAG TOT	AL = 2030 GE = 101. AL = 2132 AY = 2135	5458 Kg 2.46 Kg

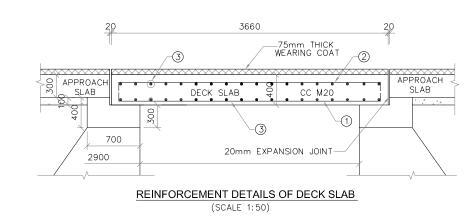
#### SCHEDULE OF REINFORCEMENT

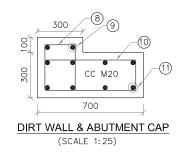
NOTES			
1) ALL DIMENSIONS ARE	in Millim	ETRES AND	REDUCED
LEVELS ARE IN METRE			
2) DO NOT SCALE THE D SHALL BE FOLLOWED.	RAWING.W	VRITTEN DIME	ENSIONS ONLY
SHALL BE FOLLOWED.			
0 For Approv	val		
Rev. Descriptio		Date. [	Drw. Pre. Chk. App.
(A GOVT. OF		TAKA UND RE - 560 (	
		gies Pvt	
		2008 Certifie Jayanagar 4th	
Bengaluru-	-560 041,	India.	
Ph.+91.80. info@eitech	40914714,	Fax: +91.80.3	26650912
PROJECT TITLE			
MODERNISATION			
IN TUNGAE	SHAUK/	A PROJEC	1
TYPICAL DRAWING	FOR TH	E CONSTR	
CART TRACK CROSS			
Date Drw. Pre. C	hk. App.		Drawing Status.
Project No. Drawing No.	•	AS SHOWN	FOR APPROVAL Sheet No. Rev.
KNNL-VNC-A	C-TYP-S	FR-CTC-009	03 of 03 0
「中学	Ah.	11.	SAMAS
Consultant E I Technologies Pvt. Ltd.	ANT EXOCUTO	ve Engineer Olvision	Executive Engineer TE-emision No.1
Bongalore	Kome	lapur	Munirabod
& ela		1 5	2 ela
Superintending Enginee Tungabhadra Project Cir Nunirabad	rcie	Chie	f Engineer Ceritral Zone
Nunirobod			unirabad



		]
NOTES 1) ALL DIMENSIONS ARE IN N	MILLIMETRES AN	ID REDUCED LEVELS
ARE IN METRES. 2) DO NOT SCALE THE DRAW	WING.WRITTEN D	IMENSIONS ONLY
<ol> <li>2) DO NOT SCALE THE DRAW SHALL BE FOLLOWED.</li> <li>3) THE BRIDGE IS DESIGNED AND IS CODES. IRC-5-1998. IRC-6-2000. IRC-21-2000. IRC-78-2000</li> <li>456-2000.</li> <li>4) GRADE OF CONCRETE : C (I) LEVELLING COURSE IN 40mm AND DOWN SIZE (II) ABUTMENT CC M15 WIT AGGREGATE.</li> <li>(III) ABUTMENT CAP.DIRT W. DRAIN SLAB, SIDE WALL M20 WITH 20mm AND</li> <li>5) BACK FILLING SHALL BE I RAISING OF THE STRUCTU LESS THAN 28".</li> <li>6) ALL REINFORCEMENT SHAI DE FORMED BARS (GRADE</li> <li>7) SHARP EDGES OF CONCRE</li> <li>8) FILLING BEHIND ABUTMENT PER REVELENT IRC SPECII</li> <li>9) ADDITIONAL REINFORCEMEI AS PER MOST FOR DECK</li> </ol>	ADOPTING THE CONFORMING TO FOUNDATION – E COARSE AGG TH 40mm.AND ALL,DECK SLAB , KERB AND WI DOWN SIZE CO DONE SIMULTAN IRE WITH Ø VAI LL BE OF HIGH E DESIGNATION ETE SHALL BE FICATIONS. NT FOR SKEW	FOLLOWING IRC IS 456-2000 CC M10 WITH REGATE. DOWN SIZE COARSE APPROACH SLAB, EARING COAT -CC ARSE AGGREGATE. IEOUSLY WITH THE UE OF SOIL NOT YIELD STRENGTH Fe415 ). CHAMFERED.
0 For Approval Rev. Description.	 Date.	Drw. Pre. Chk, App.
CLIENT (A GOVT. OF KAR	ERAVARI NI RNATAKA UN	GAM LIMITED DERTAKING)
CONSULTANT E I Techn (ISO 900 # 1149, 26th M Bengaluru-560	01 : 2008 Certif ain, Jayanagar 4 041, India. 4714, Fax:+91.8(	t. Ltd., <sup>ied)</sup> <sup>ith 'T' Block,</sup>
PROJECT TITLE MODERNISATION OF V IN TUNGABHA	/IJAYANAGA	
DRAWING TITLE CONSTRUCTION AT CH: 5+110 Km F	N OF ROAD B	RIDGE
	App. Scale.	Drawing Status.
Project No. Drawing No. KNNL-VNC-DC-ST		Sheet No.         Rev.           01 of 03         0
the stre	int	SMM
E i Technologies PvL. Ltd. VNC Bangatore	Subvolve Engineer SubvOlvesion Komelopur	Executive Engineer TR Envision No.1 Munirobod
A ela	+ 1	Bula
Superintending Engineer Tungabhadra Project Circle Munirabad	Ch Irrigati	licf Engineer on Central Zone Munirabad

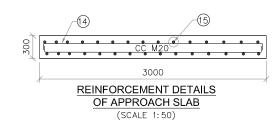


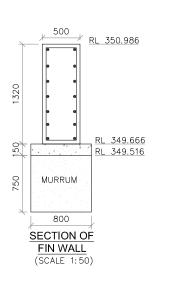


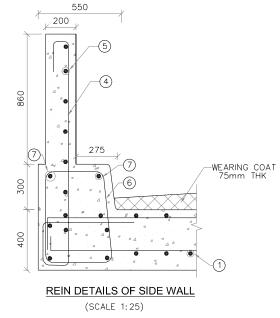


550 CARRIAGE WAY 7500 <sub>2</sub>550 200 ค 860 (7)-(3) 2 300 6 -(1) -3 8600 REINFORCEMENT DETAILS OF DECK SLAB

(SCALE 1:100)

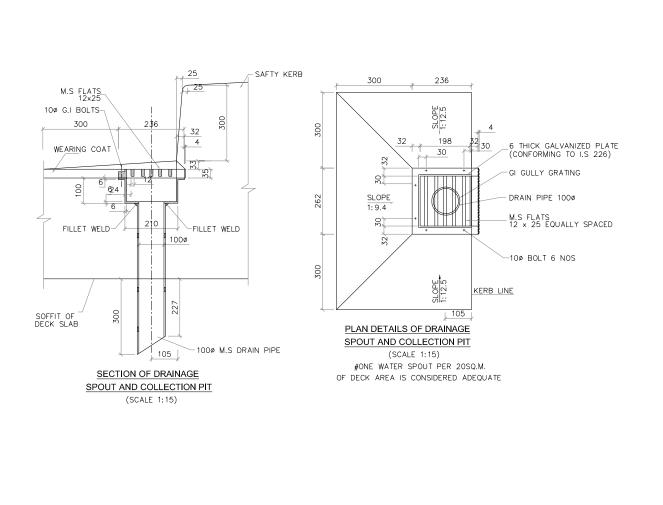






Page -76

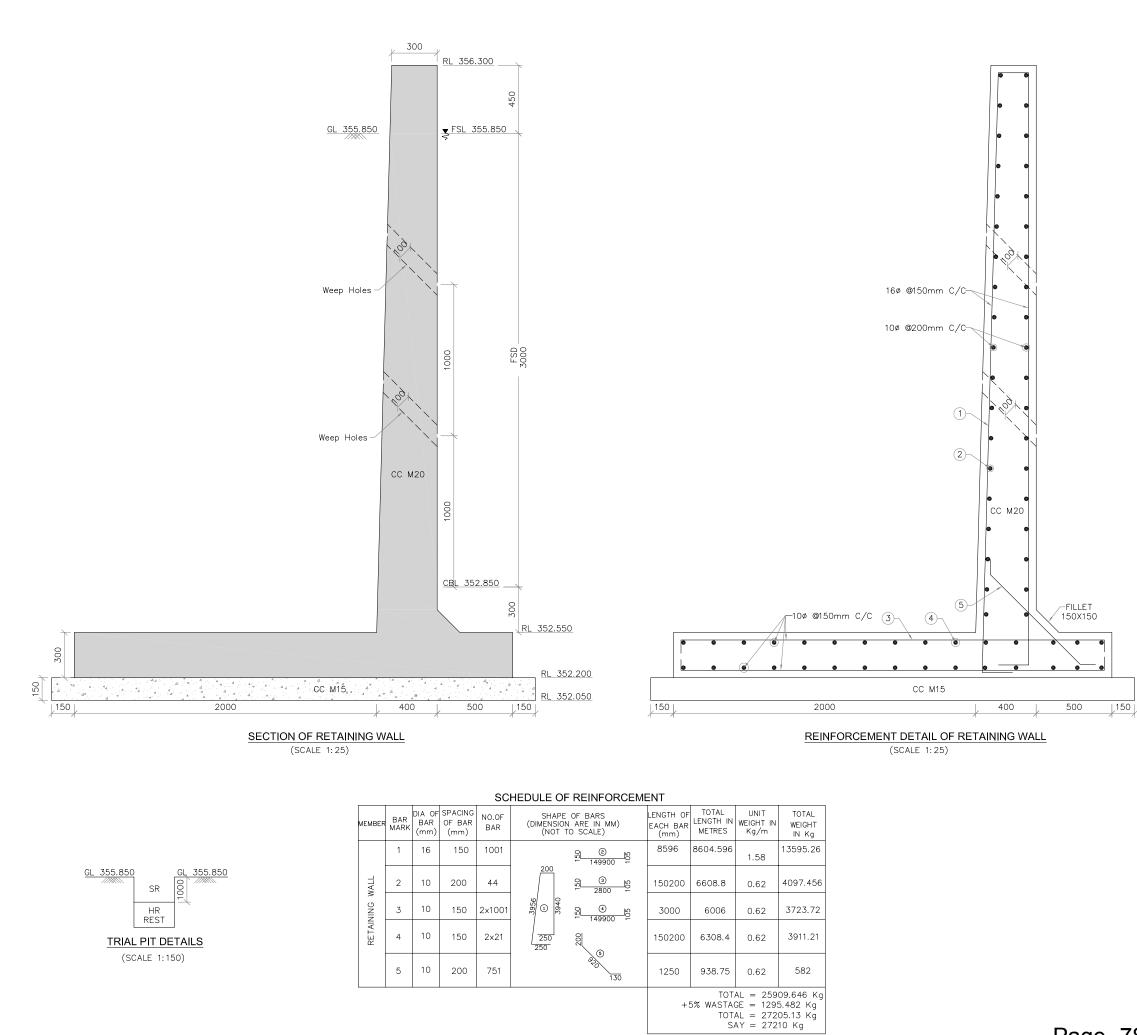
NOTES 1) ALL DIMENSIONS ARE IN M ARE IN METRES. 2) DO NOT SCALE THE DRAW SHALL BE FOLLOWED.		
0 For Approval Rev. Description. CLIENT (A GOVT. OF KA	RNATAKA UNI	DERTAKING)
CONSULTANT E I Techri (ISO 90 # 1149, 26th M Bengaluru-560	4714, Fax:+91.80 www.eitech.in VIJAYANAGA	t. Ltd., <sup>ed)</sup> , <sup>th 'T'</sup> <sup>Block,</sup> .26650912 <b>RA CHANNELS</b>
DRAWING TITLE CONSTRUCTIC AT CH: 5+110 Km Date Drw. Pre. Chk.	DN OF ROAD B FOR DESHNU App. Scale.	RIDGE R CANAL Drawing Status.
Project No. Drawing No. KNNL-VNC-DC-S Consultant E I Technologies PVL Ltd.	with Engineer	Sheet No. 02 of 03 0 Executive Engineer
	C SúbiDMisión Komelepur	TE Brision No.1 Munirobod



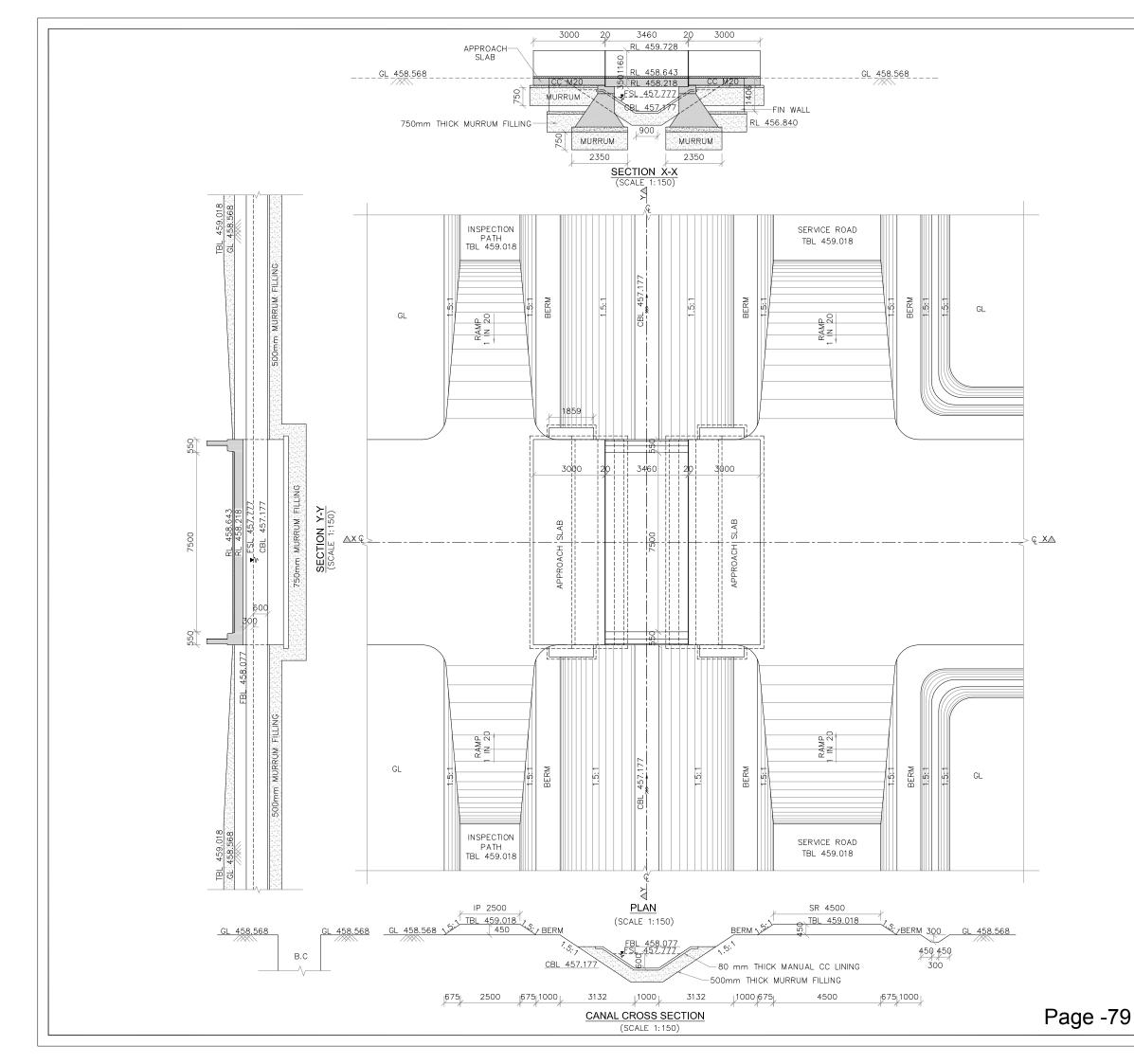
MEMBER	BAR MARK	DIA OF BAR (mm)	SPACING OF BAR (mm)	NO.OF BAR	SHAPE OF BARS (DIMENSION ARE IN MM) (NOT TO SCALE)	LENGTH OF EACH BAR (mm)	total length in Metres	UNIT WEIGHT IN Kg/m
SLAB	1	16	150	58	81 () 18 N 3560 N	3960	229.68	3.86
	2	16	150	58	3560 දි © ද	3960	229.68	3.86
	3	12	150	25×2	(3) 8500	8500	425.0	0.89
SIDE WALLS	4	10	200	19x2	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2110	80.18	0.62
	5	10	200	12x2	5	3560	85.44	0.62
KERB	6	10	200	19x2	400 6 450 6	2052	77.97	0.62
XE	7	10	200	9X2		3560	64.08	0.62
DIRT WALL	8	10	200	44X2	200 R R 8 200	1000	88	0.62
	9	10	200	6X2	<u> </u>	8500	102	0.62
ABUTMENT CAP	10	10	200	44X2		1400	123.20	0.62
ABU	11	10	200	6x2	8500 (11)	8500	102.00	0.62
ABUTMENT	12	10	200	44X2	600 800 790 (12) 100 100	3805	334.84	0.62
ABU	13	10	200	21x2	(3)	8500	357	0.62
ACH VB	14	12	150	58X4		3100	719.20	0.89
APPROACH SLAB	15	10	150	21X4	<u>8500</u> (15)	8500	714.00	0.62
WALL	16	10	200	10X4	(a) 000 150 000 150 000 150 000 150 000 150 000 150 000 150 000 150 000 150 000 150 000 150 000 150 000 150 15	3240	129.6	0.62
FIN	17	10	200	18X4	<u>    1660                               </u>	1660	119.52	0.62
						ADD 5		AL = 321 GE = 160.

ADD 5% WASTAGE = 160.88 TOTAL = 3374.3 SAY = 3375 I

	NOTES	LIMETRES AND REDUCED LEVELS
	2) DO NOT SCALE THE DRAWIN SHALL BE FOLLOWED.	
TOTAL		
WEIGHT IN Kg		
360.59 360.59		
378.25		
49.71		
52.97		
48.34		
39.72		
54.56		
63.24		
76.384		
63.24		
207.6		
221.34		
640.00	0 For Approval Rev. Description.	Date. Drw. Pre. Chk. App.
442.68	(A GOVT. OF KARI	RAVARI NIGAM LIMITED NATAKA UNDERTAKING) LORE - 560 001
80.35	CONSULTANT E I Techno	in, Jayanagar 4th 'T' Block,
74.1	Bengaluru-560 04	41, India. 714, Fax: +91.80.26650912
5.66 Kg 83 Kg .34 Kg	PROJECT TITLE MODERNISATION OF VI	JAYANAGARA CHANNELS
Kg	IN TUNGABHAD	OF ROAD BRIDGE
	AT CH: 5+110 Km F0	OR DESHNUR CANAL         pp.       Scale.         Drawing Status.
	Project No. Drawing No. KNNL-VNC-DC-STR	AS         SHOWN         FOR         APPROVAL           Sheet         No.         Rev.           Q-VRB-006         03 of 03         0
	EP- Consultant Asterior	State Engineer Executive Engineer
	E I Technologies PvL Ltd. WNC S Bangatore Ka	Sub-Division No.1 melopur Munirobod
-77	Superintending Engineer Tungabhadra Project Circle Munirabad	Chief Engineer Irrigation Central Zone Munimobad



	NOTES AND SPECIFICATION	<u>SNC</u>			
	1) ALL DIMENSIONS ARE IN MILLI ARE IN METRES.	METRES AND	REDUCED LEVELS		
	2) DO NOT SCALE THE DRAWING SHALL BE FOLLOWED.	.WRITTEN DIM	ENSIONS ONLY		
	<ul> <li>3) GRADE OF CONCRETE : CONF (I) LEVELLING COURSE IN FOU 40mm AND DOWN SIZE CC (ii) RETAINING WALL – RCC M DOWN SIZE COARSE AGGRI</li> <li>4) BACK FILLING SHALL BE DON RAISING OF THE STRUCTURE</li> </ul>	INDATION — ( DARSE AGGRE 120 WITH 20n EGATE. E SIMULTANE	CC M15 WITH GATE. nm AND OUSLY WITH THE		
	LESS THAN 28'. 5) ALL REINFORCEMENT SHALL E				
	DE FORMED BARS (GRADE DE 6) SHARP EDGES OF CONCRETE	SIGNATION F	e415 ). HAMFERED.		
	<ul> <li>7) FILLING BEHIND RETAINING WA REVELENT IRC SPECIFICATIONS</li> <li>8) EXPANSION JOINTS OF 20MM</li> </ul>	S.			
	PROVIDED AT INTERVALS OF 9) WEEP HOLES ARE TO BE PRC 3M HORIZONTALLY AND 1M V	15M THROUGH	HOUT THE LENGTH.		
	0 For Approval Rev. Description.	Date.	Drw. Pre. Chk. App.		
	CLIENT (A GOVT, OF KARN		GAM LIMITED		
		ORE - 560 logies Pv	001		
	(ISO 9001 # 1149, 26th Main	: 2008 Certifi , Jayanagar 4			
	Bengaluru-560 04 Ph.+91.80.4091471 info@eitech.in•www	4, Fax: +91.80	.26650912		
	PROJECT TITLE MODERNISATION OF VIJ IN TUNGABHADE				
	DRAWING TITLE CONSTRUCTION OF RETAINING WALL FOR FEEDER CHANNEL OF SIRUGUPPA CHANNEL				
	Date Drw. Pre. Chk. Ap	p. Scale.	Drawing Status.		
	Project No. Drawing No. KNNL-VNC-SGC-S	AS SHOWN	FOR         APPROVAL           Sheet         No.         Rev.           01 of 01         0		
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	Consultant E i Technologies PvL. Ltd. VNC S Bangatore Kar	uvé Engineer ub:Division nelopur	Executive Engineer TE Emision No.1 Munirobod		
3	Superintending Engineer	Ch	ef Engineer		
,	Tungabhadra Project Circle	Irrigatio	n Çentraj Zone		



NOTES		
1) ALL DIMENSIONS ARE IN MI ARE IN METRES.	LLIMETRES AN	D REDUCED LEVELS
2) DO NOT SCALE THE DRAWI SHALL BE FOLLOWED.	NG.WRITTEN DI	MENSIONS ONLY
3) THE BRIDGE IS DESIGNED A AND IS CODES. IRC-5-1998. IRC-6-2000. IRC-21-2000. IRC-78-2000 IS 456-2000.	DOPTING THE	FOLLOWING IRC
<ul> <li>4) GRADE OF CONCRETE : CC (I) LEVELLING COURSE IN F 40mm AND DOWN SIZE (ii) ABUTMENT CC M15 WITH AGGREGATE.</li> <li>(iii) ABUTMENT CAP,DIRT WA DRAIN SLAB, SIDE WALL</li> </ul>	OUNDATION - COARSE AGGF 1 40mm.AND 1 LL,DECK SLAB, KERB AND WE	CC M10 WITH REGATE. DOWN SIZE COARSE APPROACH SLAB, ARING COAT -CC
M20 WITH 20mm AND D 5) BACK FILLING SHALL BE DU RAISING OF THE STRUCTUR LESS THAN 28°.	ONE SIMULTAN	EOUSLY WITH THE
<ul> <li>6) ALL REINFORCEMENT SHALL DE FORMED BARS (GRADE</li> <li>7) SHARP EDGES OF CONCRET</li> <li>8) FILLING BEHIND ABUTMENT PER REVELENT IRC SPECIFI</li> <li>9) ADDITIONAL REINFORCEMEN</li> </ul>	DESIGNATION TE SHALL BE SHALL BE AS CATIONS.	Fe415 ). CHAMFERED.
AS PER MOST FOR DECK S	SLAB.	
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	ologies Pv	
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Bengaluru-560 Ph.+91.80.40914 info@eitech.in•wy	714, Fax: +91.8	0.26650912
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DRAWING TITLE		
CONSTRUCTION OF AT CH: 4+000Km F		
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Consultant I Technologies Pvt. Ltd. VNC	Sub Division	Executive Engineer TE-Emision No.1
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Superintending Engineer Tungabhadra Project Circle Munirabad	Ci Irria di	hief Engineer op Central Zone
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Chief Engineer Irrigation Central Zone Munirabad