

ATTACHMENTS

Attachment

Detailed List of Structures (Results of Inventory survey and the Basic Design

LEGEND NO. 1

Major Category of Structures

Abbreviation	Description
OLL	Outlet on Left Side
OLR	Outlet on Right Side
BR	Bridge
DP	Drop or Fall
SP	Steps
AQ	Adqueduct
OLTL	Tail Left Outlet
OLTR	Tail Right Outlet
OLTF	Tail Front Outlet
W.C Xing	Water Course Crossing
PC	Pipe Culvert
ESC	Escape

Legend No. 2

Minor Category Of Structures

Major Category	Minor Category Abbreviation	Description
Outlet	Type A	Pipe Outlet
	Type B	APM Outlet
	Type C	APM with Chamber
	Type D	Open Flume Outlet
Bridge	AR	Arterial Road Bridge
	PC	Pipe Culvert
	DR	Divisional Road Bridge
	VR	Village Road Bridge
	RB	Railway Bridge
	FP	Footpath Bridge
Drop	Type A	Vertical Drop
	Type B	Inclined Drop

LEGEND NO. 3

Extend of Superannuation

Abbreviation	Description
A	Functioning and Well Maintained (for reuse)
B	Functioning but not well maintained
C	Partially functioning and not well maintained (for replace)
D	Not Functioning (for replace)

LEGEND NO. 4

Specifications

Major Category	Specifications			
	A	B	C	D
Bridge	Crossing Angle	Actual Width	No. of Span	Entire Length
Drop	Drop Height	Width of Bridge if Installed	Length of settling basin	Width of settling basin
Outlet	Dia of pipe if installed	Width of flume or orifice at narrowest.	Level of water course bed at head	Crossing O&M Road (Y or N)
Steps	XNos of Step	Height of a step	Width of step	
Aqueduct	Crossing Angle	Width of Canal	No. of Span	Entire Length
Sui-Gas or other Pipe Crossing	Crossing Angle	Pipe Dia	No. of Spans	Entire Length
Water Course Crossing	Crossing Angle	Width of Water Course	No. of Span	Entire Length
Pipe Culvert	Diameter of Pipes	No. of Pipes	Length of Pipe	Nil

LEGEND NO. 5

General

Abbreviation	Description
N.A	Not Applicable
N.V	Not Visible

Ref. No. 10/Punjab/leg-Dec.83

1. LJC Area

Canal Name: MULLAN L002 (V5)

Surveyed S.O. No.	Surveyed RD	Surveyed (m)	Designed RD	Designed (m)	Major Category	Minor Category	Structure	Material	Specifications			Remarks					
									A	B	C						
1	49	15	49	15	BR	VR	C	BRICKS	90,000	20,240	3,000	33,240	REPLACE	TB 4	1	VR	D
2	4360	1335	2	4380	SPL		C	BRICKS	5,000	0,500	2,500		REPLACE	TS 1	1		D
3	5600	1707	3	5580	OLA	B	B	BRICKS	9,210	664,938	Y		REPLACE	TO 2		AOSM	D
4	6809	2075	4	6800	BR	FP	C	STEEL	90,000	2,750	1,000	19,000	Replace as VR BR	TB 4	1	VR	D
5	7382	2250	5	7382	BR	VR	C	R.C.C	90,000	12,000	3,000	34,000	REPLACE	TB 4		VR	D
6	7917	2413	6	7917	BR	FP	C	GIRDER	90,000	4,000	1,000	35,500	Replace as VR BR	TB 4	1	VR	D
7	8251	2515	7	8250	OLA	A	B	BRICKS	0.5	364,296	N		REPLACE	TO 2		AOSM	D
8	8486	2587	8	8489	BR	FP	B	R.C.C	90,000	5,250	3,000	35,000	Replace as VR BR	TB 4	1	VR	D
9	9009	2748	9	9000	OLL	B	B	BRICKS	0.250	664,583	Y		REPLACE	TO 2		AOSM	D
10	9357	2852	10	9400	OLA	B	B	BRICKS	0.420	664,843	Y		REPLACE	TO 2		AOSM	D
11	9472	2887	11	9472	BR	FP	B	R.C.C	90,000	4,000	2,000	42,000	Replace as VR BR	TB 4	1	VR	D
12	9511	2899	12	9511	SPR		C	BRICKS	5,000	0,500	2,000		REPLACE	TS 1	1		D
13	10112	3082	13	10150	OLL	B	B	BRICKS	0.250	663,727	Y		REPLACE	TO 2		AOSM	D
14	11539	3517	14	11530	SPL		B	BRICKS	5,000	0,500	2,500		REPLACE	TS 1	1		D
15	12456	3797	15	12456	BR	VR	B	R.C.C	90,000	13,000	3,000	34,000	REPAIR	TR 1	1	VR	B
16	15436	4756	16	15648	OLL	D	B	BRICKS	0.320	663,271	Y		REPLACE	TO 2		AOSM	D
17	16509	5032	17	16508	OLA	B	B	BRICKS	0.420	662,342	Y		REPLACE	TO 2		AOSM	D
18	16826	5088	18	16826	BR	VR	C	BRICKS	90,000	12,000	3,000	34,000	REPLACE	TB 4	1	VR	D
19	16831	5070	19	16833	PIPE		B	ASTEEL	90,000	1,000	1,000	37,500	Tube with water pipe	RETAIN	TO 2		A
20	16728	5088	20	16730	OLL	D	B	BRICKS	0.360	662,556	Y		REPLACE	TO 2		AOSM	D
21	16759	5108	21	16759	SPR		B	BRICKS	5,000	0,500	2,500		REPLACE	TS 1	1		D
22	17766	5415	22	17774	OLA	B	B	BRICKS	0.320	663,346	Y		REPLACE	TO 2		AOSM	D
23	17804	5457	23	17904	OLA	B	B	BRICKS	0.320	661,809	Y		REPLACE	TO 2		AOSM	D
24	18077	5510	24	18000	OLL	B	B	BRICKS	0.420	661,976	Y		REPLACE	TO 2		AOSM	D
25	18470	6432	26	18476	BR	VR	B	R.C.C	90,000	10,000	3,000	29,500	REPAIR	TR 1	1	VR	B
28	18448	6823	28	18448	DP	A	B	BRICKS	8,793	10,000	44,000		REPLACE	TO 1		A	D

Canal Name: HOJJAN_032 (2/5)

Sl. No.	RC (m)	SD (m)	Designed	Major Category	Extent of	Material	Specifications				Remarks						
							A	B	C	D							
27	1855	668	27	1855	588	SPR	B	BRICKS	5,000	0.500	2,500		REPLACE	TS 1	1	0	
28	2386	7129	28	2386	7129	BR	VR	BRICKS	90,000	13,000	3,000	34,000		REPLACE	TB 4	1	VR 0
29	2341	7137	29	2341	7137	SPR	B	BRICKS	5,000	9,500	2,500			REPLACE	TS 1	1	0
30	2367	7195	30	2367	7195	OLR	B	BRICKS	0.420	558,081	Y			REPLACE	TO 2	AOSM 0	1.08 140
31	2554	7621	31	2554	7621	OLL	B	BRICKS	0.320	457,375	Y			REPLACE	TO 2	AOSM 0	1.76 229
32	2560	7603	32	2560	7603	OLR	D	BRICKS	0.250	658,176	Y			REPLACE	TO 2	AOSM 0	2.81 363
33	2402	7941	33	2402	7941	BR	FP	R.C.C	90,000	5,300	3,000	35,250		Replace as VR BR	TB 4	1	VR 0
34	2723	8301	34	2723	8301	SPR	C	BRICKS	5,000	0.600	2,500			REPLACE	TS 1	1	0
35	2867	8629	35	2867	8629	OLL	D	BRICKS	1.080	659,432	Y		HEAD OF ARIAN MINOR	REPLACE	TO 1	FL D	11.62 1392
36	2905	8865	36	2905	8865	OLL	B	BRICKS	32,000	659,012	Y			REPLACE	TO 2	AOSM 0	1.95 251
37	2905	8865	37	2905	8865	OLL	B	BRICKS	3,210		Y			REPLACE	TO 2	AOSM 0	0.91 110
38	2919	8897	38	2919	8897	OP	B	BRICKS	1,650	13,500	37,000	40,000		REPLACE	TO 1	A	0
39	2920	8909	39	2920	8909	BR	VR	BRICKS	90,000	13,560	3,000	34,000		REPLACE	TB 4	1	VR 0
40	3194	9737	40	3194	9737	BR	FP	GIRDER	90,000	4,750	2,000	30,000		Replace as VR BR	TB 4	1	VR 0
41	3230	9845	41	3230	9845	SPL	C	BRICKS	5,000	0.500	3,000			REPLACE	TS 1	1	0
42	3463	10557	42	3463	10557	OLL	B	BRICKS	0.420		Y		HEAD OF KOTWOMAN	REPLACE	TO 2	AOSM 0	2.75 354
43	3645	11112	43	3645	11112	OLL	D	BRICKS	1,250		Y			REPLACE	TO 1	FL D	22.35 2326
44	3646	11161	44	3646	11161	SPL	B	BRICKS	5,000	0.500	2,000			REPLACE	TS 1	1	0
45	3681	11181	45	3681	11181	SPR	B	BRICKS	5,000	0.500	2,000			REPLACE	TS 1	1	0
46	3670	11188	46	3670	11188	BR	VR	BRICKS	90,000	13,500	3,000	32,000		REPLACE	TB 4	1	VR 0
47	3685	11234	47	3685	11234	OLL	B	BRICKS	0.420		Y			REPLACE	TO 2	AOSM 0	1.12 145
48	3928	11973	48	3928	11973	OLR	B	BRICKS	0.320		Y			REPLACE	TO 2	AOSM 0	1.09 142
49	4152	12668	49	4152	12668	OLR	D	BRICKS	1,750		Y		HEAD OF KOT RAJAWA	REPLACE	TO 2	AOSM 0	6.99 865
50	4152	12668	50	4152	12668	BR	FP	R.C.C	90,000	4,000	1,000	17,000		Replace as VR BR	TB 4	1	VR 0
51	4152	12668	51	4152	12668	OP	A	BRICKS	1,080	4,000	32,000	32,000		REPLACE	TO 1	A	0
52	4205	12895	52	4205	12895	BR	AR	R.C.C	75,000	104,500	1,000	68,000		MOTOR WAY BRIDGE	RETAIN	AR	A

(4/5)

Canal Name: MUJIAN L052

SI. No.	RD No.	RD (km)	SI. No.	SI. No. (m)	Design	Major Category	Material	Specifications				Remarks			
								A	B	C	D				
79	69948	21320	79	69948	21320	SPR	C	BRICKS	5.000	0.500	2.190	REPLACE	TS 1	1	0
80	70000	21336	80	70000	21336	BR	C	R.C.C	90.000	4.000	2.000	Replace as VR BR	TB 4	2	VR D
81	71726	21892	81	71726	21892	OLL	C	BRICKS	0.250	0.420	0.420	REPLACE	TO 2	AOSM	D 2.09
82	71841	21997	82	71852	21900	OLR	C	BRICKS	0.250	0.250	0.420	REPLACE	TO 2	AOSM	D 1.76
83	72959	22328	83	73000	22250	OLR	C	BRICKS	0.250	0.250	0.420	REPLACE	TO 2	AOSM	D 2.31
84	73386	22388	84	73400	22372	OLR	C	BRICKS	0.250	0.250	0.420	REPLACE	TO 2	AOSM	D 1.12
85	73950	22540	85	73950	22540	BR	C	R.C.C	90.000	14.000	2.000	REPLACE	TB 4	2	VR D
86	74000	22555	86	74000	22555	SPL	C	BRICKS	5.000	0.500	2.500	REPLACE	TS 1	1	D
87	74991	22846	87	75000	22880	OLL	C	BRICKS	0.250	0.250	0.420	REPLACE	TO 2	AOSM	D 1.09
88	76437	23296	88	76485	23331	OLR	C	BRICKS	0.400	0.400	0.420	REPLACE	TO 2	AOSM	D 2.37
89	76904	23440	89	76904	23440	SPR	C	BRICKS	5.000	0.500	1.820	REPLACE	TS 1	1	D
90	78620	23933	90	78516	23932	OLL	C	BRICKS	0.250	0.250	0.420	REPLACE	TO 2	AOSM	D 1.08
91	78520	23933	90	78516	23932	OLR	C	BRICKS	0.250	0.250	0.420	REPLACE	TO 2	AOSM	D 1.129
92	79950	24089	92	79950	24089	BR	C	R.C.C	90.000	14.000	2.000	REPLACE	TB 4	2	VR D
93	79961	24372	93	79968	24374	OLL	C	BRICKS	0.400	0.400	0.420	REPLACE	TO 2	AOSM	D 2.96
94	80986	24685	94	80984	24687	OLL	C	BRICKS	0.250	0.250	0.420	REPLACE	TO 2	AOSM	D 1.85
95	82142	25037				OLL	C	BRICKS	N.V		0.420	REMOVE			
96	83251	25376	96	83286	25385	OLL	C	BRICKS	1.000	1.000	0.420	REPLACE	TO 1	FL	D 10.91
97	83300	25408	96	83350	25405	OLL	C	BRICKS	0.250	0.250	0.420	REPLACE	TO 2	AOSM	D 1.23
98	83490	25448	97	83480	25446	BR	C	R.C.C	90.000	13.500	2.000	REPLACE	TB 4	3	VR D
99	84750	25832	98	84750	25832	BR	C	GIRDER	90.000	4.500	1.000	Replace as VR BR	TB 4	3	VR D
100	84423	26342	99	84623	26342	BR	C	GIRDER	90.000	5.000	1.000	Replace as VR BR	TB 4	3	VR D
101	87425	26847	100	87430	26849	OLL	C	BRICKS	0.25	0.25	0.420	REPLACE	TP 3	PIPE	D 0.25
102	88411	26848	101	88411	26848	BR	C	R.C.C	90.000	11.500	1.000	REPLACE	TB 4	3	VR D
103	88466	26945	102	88477	26948	OLL	C	BRICKS	0.250	0.250	0.420	REPLACE	TO 2	AOSM	D 1.23
104	89475	27272	103	89500	27280	OLL	C	BRICKS	0.200	0.200	0.420	REPLACE	TO 2	AOSM	D 1.34

Sl. No.	RD	Surveyed	RD	Designed	RD	Major Category	Material	Estimated	Remarks	Spec. Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	JJ	JK	JL	JM	JN	JO	JP	JQ	JR	JS	JT	JU	JV	JW	JX	JY	JZ	KA	KB	KC	KD	KE	KF	KG	KH	KI	KJ	KK	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	XG	XH	XI	XJ	XK	XL	XM	XN	XO	XP	XQ	XR	XS	XT	XU	XV	XW	XX	XY	XZ	YA	YB	YC	YD	YE	YF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY	ZZ
106	91873	28073	105	91868	28073	OLL	B	C	BRICKS	0.190	938.373	Y	REPLACE	TO 2	AOSM	D	1.36	171																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
107	92128	28060	106	92120	28078	OLL	D	B	BRICKS	1.190	837.612	Y	TANGO MINOR HEAD	REPLACE	TO 1	FL	D	12.13	1470																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
108	92277	28126	107	92275	28125	OLL	B	B	BRICKS	0.360	636.596	Y	REPLACE	TO 2	AOSM	D	2.45	318																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
109	94460	28773	108	94400	28773	BR	VR	C	R.C.C	90,000	13,500	2,000	17,000	REPLACE	TB 4	4 <td>VR</td> <th>D</th>	VR	D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
110	94454	28790	110	94454	28790	SPR	B	C	BRICKS	4,000	0.500	2,500	REPLACE	TS 1	1 <td>D</td>	D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
111	94454	28790	109	94454	28790	SPL	B	C	BRICKS	4,000	0.500	2,500	REPLACE	TS 1	1 <td>D</td>	D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
112	95509	29111		95509	29111	JP	B	B	BRICKS	4,180		10,000	8,000	REMOVE			REMOVE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
113	95508	29111	111	95500	29106	OLL	D	C	BRICKS	6,250	635.299	Y	HEAD OF MINOR JESPA	REPLACE	TO 1	FL	D	22.36	28651																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
114	96591	29441	112	96400	29444	OLL	B	C	BRICKS	0.320	636.824	Y	REPLACE	TO 2	AOSM	D	1	130																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
115	98090	29870	113	98000	29870	SPL	B	C	BRICKS	5,000	0.500	1,500	REPLACE	TS 1	1 <td>D</td>	D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
116	98128	29809	114	98128	29809	SPL	B	C	BRICKS	5,000	0.250	2,140	REPLACE	TS 1	1 <td>D</td>	D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
117	94235	29942	116	94445	30008	OLR	B	C	BRICKS	0.200		Y	REPLACE	TO 2	AOSM	D	0.86	113																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
118	98332	29972	115	98332	29972	BR	VR	B	R.C.C	90,000	10,500	1,000	8,000	REPAIR	TR 1	1 <td>VR <th>B</th> </td>	VR <th>B</th>	B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
119	99942	30462	118	99942	30462	SPL	B	C	BRICKS	5,000	0.750	1,500	REPLACE	TS 1	1 <td>D</td>	D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
120	99942	30482	117	99942	30482	SPR	B	C	BRICKS	5,000	0.550	1,500	REPLACE	TS 1	1 <td>D</td>	D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
121	99993	30478	119	100000	30480	OLL	B	C	BRICKS	0.200	635.991	Y	REPLACE	TO 2	AOSM	D	0.86	111																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
122	100028	30488	120	100030	30488	OLL	B	B	BRICKS	0.250	635.882	Y	REPLACE	TO 2	AOSM	D	1.17	138																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
123	100048	30494	121	100050	30495	OLR	B	B	BRICKS	0.250	636.322	Y	REPLACE	TO 2	AOSM	D	2.1	213																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
124	101042	30604	122	101042	30604	BR	VR	C	R.C.C	90,000	13,000	1,000	8,000	REPLACE	TB 4	7 <td>VR <th>D</th> </td>	VR <th>D</th>	D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
125	102389	31209	123	102389	31208	SPR	B	C	BRICKS				DAMAGED	REPLACE	TS 1	1 <td>D</td>	D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
126	107549	32781	125	107500	32786	OLL	D	B	BRICKS	0.250	637.336	Y	REPLACE	TO 1	FL	D	1.08	140																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
127	107549	32781	124	107500	32786	OLR	A	B	BRICKS	0.320	637.316	Y	REPLACE	TP 9	PIPE	D	0.15	21																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
128	109090	33223	126	109090	33223	SPR	B	C	BRICKS	5,000	0.500	2,000	REPLACE	TB 1	1 <td>D</td>	D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
129	109140	33290	127	109120	33280	BR	VR	C	BRICKS	90,000	13,500	1,000	9,000	REPLACE	TB 4	6 <td>VR <th>D</th> </td>	VR <th>D</th>	D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

Sl. No.	RD No.	RD (m)	Ch. No.	Ch. (m)	Dist. (m)	Major Category	Sub-Category	Material	Specification			Remarks							
									A	B	C	1	2	3	4	5	6	7	8
1	0	0	1	0	0	BR	O&M	B	R.C.C (SLAB)	90,000	12,000	1,000	8,000	REPAIR	TR-1	2	VR	B	
			2	3281	1000	SPL	-							PROPOSED	TS-1	2	-	-	
2	3484	1062	3	3484	1062	BR	VR	B	R.C.C (SLAB)	90,000	10,500	1,000	8,000	REPAIR	TR-1	2	VR	B	
			4	3999	1219	SPR	-							PROPOSED	TS-1	2	-	-	
3	4494	1370	5	4494	1370	OLL	B	B	BRICKS	-	0.250	-	YES	REPLACE	TO-2		AOSM	D	
			6	4542	2000	SPR	-							PROPOSED	TS-1	2	-	-	
4	7119	2170	7	7119	2170	BR	VR	B	R.C.C (SLAB)	90,000	14,750	1,000	8,000	REPAIR	TR-1	2	VR	B	
5	9000	2743	8	9000	2743	OLR	B	B	BRICKS	-	0.250	-	YES	REPLACE	TO-2		AOSM	D	
6	9450	2880	9	9450	2880	OLL	D	B	BRICKS	-	0.250	-	YES	REPLACE	TO-2		AOSM	D	
			10	9442.52	3000	SPR	-							PROPOSED	TS-1	2	-	-	
7	9825	3025	11	9825	3025	BR	VR	C	R.C.C (SLAB)	90,000	13,500	1,000	8,000	REPLACE	TR-4	8	VR	D	
8	11375	3467	13	11375	3467	BR	VR	C	R.C.C (SLAB)	90,000	9,160	1,000	5,000	REPLACE	TR-4	8	VR	D	
9	11375	3467	12	11375	3467	OP	S	C	BRICKS	0.08	1,000	5,000	5,000	REPLACE	TO-1		A	D	
10	11973	3558	14	11973	3558	BR	VR	B	R.C.C (SLAB)	90,000	5,250	1,000	18,000	REPAIR	TR-1	2	VR	B	
11	13410	4087	15	13410	4087	OLL	D	B	BRICKS	-	0.250	-	YES	REPLACE	TO-1		FL	D	
12	17195	5241	16	17195	5241	BR	VR	B	R.C.C (SLAB)	90,000	22,000	1,000	5,500	REPAIR	TR-1	2	VR	B	
13	17249	5410	18	17249	5425	OLL	D	B	BRICKS	-	1.040	449.888	YES	REPLACE	TO-1		FL	D	
14	17750	5411	17	17800	5425	OLR	D	B	BRICKS	-	1.040	449.888	YES	REPLACE	TO-1		FL	D	

Sl. No.	RD	RD (M)	RD (FT)	Design No.	Design (M)	Design (FT)	Major Category	Minor Category	Extent of	Material	Specifications				Remarks					
											A	B	C	D						
1	16	5	16	5	BR	OLM	B	R.C.C	11,000	1,000	18,000	1,000	11,000	REPAIR	TR-1	2	VR	OLM	B	-
2	803	245	803	245	SPL	-	C	BRICKS	4,000	2,000	7,000	2,000	-	REPLACE	TS-1	2	-	D	-	-
3	3005	916	3005	916	BR	VR	B	R.C.C	13,000	1,000	13,000	1,000	11,750	REPAIR	TR-1	2	VR	B	-	-
4	3809	1190	3809	1190	SPL	-	B	BRICKS	4,000	0,500	4,500	1,160	-	REPLACE	TS-1	2	-	D	-	-
5	4511	1375	4511	1375	OLR	D	B	BRICKS	-	0,210	-	-	Y	REPLACE	TO-2	AOSM	D	1.91	226	-
6	5889	1795	5889	1795	BR	AR	A	R.C.C	100,000	12,750	100,000	1,000	168,000	RETAIN	-	-	-	AR	A	-
7	6151	1875	6151	1875	BR	PC	B	R.C.C	3,420	1,000	3,420	28,000	NIL	REPAIR	-	-	-	PC	B	-
8	7218	2200	7218	2199	OLL	D	B	BRICKS	-	0,210	451,939	Y	-	REPLACE	TO-1	-	-	FL	D	1.35
9	7313	2229	7313	2232	OLL	D	B	BRICKS	-	0,250	452,067	Y	-	REPLACE	TO-1	-	-	FL	D	1.16
10	7372	2247	7372	2247	DP	B	B	BRICKS	1,824	21,750	-	-	-	REPLACE	TO-1	-	-	A	D	-
11	7382	2250	7382	2250	BR	DR	B	R.C.C	70,000	9,500	1,000	21,750	-	REPAIR	TR-1	2	DR	B	-	-
12	11594	3534	11594	3525	OLR	D	B	BRICKS	-	0,200	650,266	Y	-	REPLACE	TO-1	-	-	FL	D	1.12
13	11794	3594	11794	3592	OLL	D	B	BRICKS	-	0,200	649,902	Y	-	REPLACE	TO-1	-	-	FL	D	1.57
14	12530	3819	12530	3819	DP	A	B	BRICKS	3,120	14,040	17,000	17,000	-	REMOVE	-	-	-	-	-	-
15	12536	3821	12536	3821	BR	VR	B	BRICKS	90,000	6,820	1,000	14,000	-	REPAIR	TR-1	2	VR	B	-	-
16	15404	4895	15404	4892	OLR	D	B	BRICKS	-	0,160	948,261	Y	-	REPLACE	TO-1	-	-	FL	D	1.30
17	15601	4755	15601	4755	BR	FP	B	R.C.C	90,000	9,580	1,000	4,000	-	Replace+VR BR	TR-1	2	VR	D	-	-
18	17756	5412	17756	5393	OLR	B	B	BRICKS	-	0,250	647,713	Y	-	REPLACE	TO-2	-	-	AOSM	D	1.71
19	17953	5472	17953	5462	OLL	B	B	BRICKS	-	0,250	647,539	Y	-	REPLACE	TO-2	-	-	AOSM	D	1.66
20	17799	5425	17799	5425	BR	DR	B	R.C.C	90,000	7,190	1,000	40,000	-	REPAIR	TR-1	2	DR	B	-	-
21	17748	5421	17748	5421	OP	B	B	BRICKS	0,919	19,000	-	-	-	REMOVE	-	-	-	-	-	-
22	21211	6495	21211	6485	BR	DR	B	R.C.C	90,000	7,530	1,000	19,000	-	REPAIR	TR-1	2	DR	B	-	-
23	22251	6782	22250	6782	OUTL	D	B	BRICKS	-	1,000	645,430	Y	-	REPLACE	TO-1	-	-	FL	D	2.32
24	22251	6782	22250	6782	OUTL	D	B	BRICKS	-	0,930	645,436	N	-	REPLACE	TO-1	-	-	FL	D	2.37
25	22251	6782	22250	6782	OUTL	D	B	BRICKS	-	0,920	644,900	N	-	REPLACE	TO-1	-	-	FL	D	1.99
26	22254	6783	22250	6782	OUTL	D	B	BRICKS	-	0,820	645,135	N	-	REPLACE	TO-1	-	-	FL	D	2.56

SR No	RD No	RD (m)	Design No	Design Date	Design RC	Design (m)	Major Category	Minor Category	Structure	Synthesis				Remarks							
										A	B	C	D	1	2	3	4	5	6	7	8
1	32	10	1	32	10	BR	BR	OAM	B	R.C.C	-	12,000	1,000	6,500	REPAIR	TR-1	Z	VR	0	-	
2	2198	870	2	2200	871	OLL	OLL	B	B	BRICKS	90,000	0.320	654,598	Y	REPLACE	TO-Z		AOSM	D	1.98	177
3	5131	1564	3	5131	1564	BR	BR	VR	B	R.C.C	-	10,000	1,000	13,000	REPAIR	TR-1	Z	VR	0	-	
4	5801	1788	4	5800	1768	OLR	OLR	D	B	BRICKS	90,000	0.320	655,361	Y	REPLACE	TO-1		FL	D	1.32	172
5	6301	1948	5	6301	1948	BR	BR	VR	C	BRICKS	-	6,000	1,000	6,750	REPLACE	TB-4		VR	D	-	-
6	9154	2790	6	9155	2790	OLT	OLT	D	A	BRICKS	-	0.500	652,234	Y	REPLACE	TO-1		FL	D	1.53	192
7	9155	2780	7	9155	2790	CLTF	CLTF	D	A	BRICKS	-	0.500	-	Y	REPLACE	TO-1		FL	D	1.20	155
8	9154	2780	8	9155	2790	OLTR	OLTR	D	A	BRICKS	90,000	0.670	652,539	Y	REPLACE	TO-1		FL	D	1.27	164

Sl. No.	RD	RD (m)	St. No.	HT	RD	RD	Designed	Major Category	Minor Category	Extent of	Material	Span/Component				Remarks			
												A	B	C	D				
1	0	0	1	0	0	0	BR	VR	B	R.C.C (SLAB)	90,000	10,000	1,000	5,000	REPAIR	TR-1	2	VR	B
2	4085	1245	2	415	1241	0	OLL	B	D	BRICKS	-	0,200	451,715	Y	REPLACE	TO-2	-	AOSM	D
3	4386	1947	3	4386	1947	0	BR	VR	0	R.C.C	90,000	4,500	1,000	14,160	REPAIR	TR-1	2	VR	B
4	9774	2979	5	9775	2979	0	OLL	B	B	BRICKS	-	0,210	649,163	Y	REPLACE	TO-2	-	AOSM	D
5	19302	3140	5	10486	3199	0	OLR	B	B	BRICKS	-	0,500	947,467	Y	REPLACE	TO-2	-	AOSM	D
6	11891	3624	7	11891	3624	0	BR	VR	C	BRICKS	90,000	9,000	1,000	13,000	REPLACE	TS-4	7	VR	D
7	13025	3979	9	13242	4036	0	OLR	B	B	BRICKS	-	0,500	648,140	Y	REPLACE	TO-2	-	AOSM	D
8	13287	4050	10	13531	4124	0	OLL	D	B	BRICKS	-	0,420	646,913	Y	REPLACE	TO-1	-	FL	D
9	13337	4055	11	13581	4109	0	OLR	B	B	BRICKS	-	0,200	648,366	Y	REPLACE	TO-2	-	AOSM	D
10	13606	4147	12	13881	4225	0	OLR	B	B	BRICKS	-	0,250	647,093	Y	REPLACE	TO-2	-	AOSM	D
11	13671	4240	13	13971	4260	0	DP	B	B	BRICKS	0,16	1,000	5,000	4,500	REMOVE	-	-	-	-
12	17404	5336	14	17503	5335	0	BR	VR	B	R.C.C	90,000	7,420	1,000	13,000	REPAIR	TR-1	2	VR	B
13	20316	6193	16	20746	6335	0	OLTR	D	B	BRICKS	-	0,800	641,949	N	REPLACE	TO-1	-	FL	D
14	20316	6193	15	20746	6335	0	OLTR	D	B	BRICKS	-	0,500	-	N	REPLACE	TO-1	-	FL	D

Sl. No.	ID	RD	RD (m)	Sl. No.	RD	RD (m)	Material	Remarks	Specifications			Remarks							
									A	B	C	D	E	F	G	H			
1	1289	383	1	1289	383	BR	VR	C	BRICKS	90,000	11,000	1,000	4,500	REPLACE	TB-4	6	VR	0	-
2	1617	483	2	1617	483	BR	VR	C	BRICKS	90,000	13,000	1,000	8,000	REPLACE	TB-4	6	VR	0	-
3	2352	717	3	2352	717	BR	VR	C	BRICKS	90,000	13,000	1,000	9,000	REPLACE	TB-4	6	VR	0	-
4	3748	1142	4	3748	1142	BR	F P	C	R.C.C	90,000	8,000	1,000	8,000	REPLACE	TB-4	6	VR	0	-
5	4599	1401	5	4599	1401	BR	VR	B	BRICKS	90,000	13,000	1,000	9,000	REPAIR	TR-1	2	VR	B	-
6	4945	1934	6	4945	1934	OLL	B	B	BRICKS	-	0.250	647.651	Y	REPLACE	TP-3	PIPE	D	0.10	13
7	7198	2194	7	7198	2194	BR	VR	C	BRICKS	90,000	12,000	1,000	8,500	REPLACE	TB-4	6	VR	D	-
8	7333	2235	8	7333	2235	OLL	B	C	BRICKS	-	0.500	647.946	Y	REPLACE	TO-2	AOSM	D	1.77	221
9	7789	2374	9	7789	2374	OLL	B	B	BRICKS	-	0.250	548.742	N	REPLACE	TO-2	AOSM	D	1.82	210
10	7995	2437	10	7995	2437	BR	VR	B	R.C.C (SLAB)	90,000	12,320	1,000	8,000	REPAIR	TR-1	2	VR	B	-
11	8980	2737	12	8980	2737	SPR	-	D	BRICKS	4,000	0.700	2.800	-	REPLACE	TS-1	2	-	D	-
12	8990	2737	11	8990	2737	BR	VR	C	R.C.C (SLAB)	90,000	11,000	1,000	8,000	REPLACE	TB-4	9	VR	D	-
13	10171	3100	13	10171	3100	BR	VR	B	BRICKS	90,000	9,000	1,000	4,500	REPAIR	TR-1	2	VR	B	-
14	10289	3130	14	10289	3130	SPL	-	D	BRICKS	5,000	0.800	2.000	-	REPLACE	TS-1	2	-	D	-
15	10367	3180	15	10367	3180	SPL	-	D	BRICKS	5,000	0.800	2.000	-	REPLACE	TS-1	2	-	D	-
16	10827	3300	17	10827	3300	SPR	-	D	BRICKS	5,000	0.800	2.000	-	REPLACE	TS-1	2	-	D	-
17	10827	3300	18	10827	3300	BR	VR	B	R.C.C (SLAB)	90,000	13,000	1,000	9,750	REPAIR	TR-1	2	VR	B	-
18	14895	4540	18	14895	4526	OLL	B	B	BRICKS	-	0.420	643.501	Y	REPLACE	TO-2	AOSM	D	2.30	298
19	15278	4656	19	15238	4644	OLL	B	B	BRICKS	-	0.250	646.088	N	REPLACE	TO-2	AOSM	D	0.98	127
20	18492	4722	20	18492	4722	BR	VR	B	R.C.C	70,000	8,000	1,000	14,000	REPAIR	TR-1	2	VR	B	-
21	17241	5265	21	17241	5255	BR	VR	B	BRICKS	90,000	16,500	1,000	7,000	REPAIR	TR-1	2	VR	B	-
22	18848	5684	22	18904	5762	OLL	D	A	BRICKS	-	0.840	643.074	Y	REPLACE	TO-1	FL	D	3.15	408
23	18848	5684	23	18904	5762	OLL	D	A	BRICKS	-	1.000	642.549	Y	REPLACE	TO-1	FL	D	2.31	295

Genral Name: MARUANWALA_MINOR (10)

Project Area: LCC

Sl. No.	RD	RD (m)	Sl. No.	RD	RD (m)	Designed	Major Category	Minor Category	Material	Specification										
										A	B	C	D	E	F	G	H	I	J	
1	56	171	1	55	17	BR	VR	B	R.C.C (SLAB)	90,000	6,500	1,000	15,000	REPAIR	TR-1	2	VR	B	-	
2	2851	869	2	2861	869	SPC	-	C	BRICKS	5,000	0,700	1,500	-	REPLACE	TS-1	2	-	D	-	
3	3855	1175	3	3855	1175	BR	DR	B	R.C.C (SLAB)	90,000	25,000	1,000	10,000	REPAIR	TR-1	2	DR	B	-	
4	3904	1190	4	3904	1190	SPR	-	B	BRICKS	5,000	0,800	1,500	-	REPLACE	TS-1	2	-	D	-	
5	4042	1232	5	4042	1232	OLA	0	B	BRICKS	-	0,250	637,165	N	REPLACE	TO-2	-	AOSM	D	1.95	253
6	5748	1752	6	5748	1752	BR	VR	B	R.C.C	90,000	13,750	1,000	9,000	REPAIR	TR-1	2	VR	B	-	
7	7300	2225	7	7300	2225	BR	FP	B	R.C.C	90,000	4,000	1,000	9,750	Replace as VR BR	TB-4	6	VR	D	-	
8	7851	2352	8	7844	2330	OLL	0	B	BRICKS	-	0,320	635,620	Y	REPLACE	TO-1	-	FL	D	1.72	218
9	8025	2629	9	8025	2629	BR	VR	B	R.C.C	90,000	13,750	1,000	8,870	REPAIR	TR-1	2	VR	B	-	
10	12487	3800	10	12486	3808	OLR	B	B	BRICKS	-	0,509	632,861	Y	REPLACE	TO-2	-	AOSM	D	2.27	293
11	16447	5013	11	16447	5013	BR	FP	B	WOOD	90,000	6,000	1,000	6,500	Replace as VR BR	TB-4	6	VR	D	-	
12	192281	5860	12	192281	5860	BR	FP	B	STEEL GIRDER	90,000	5,500	1,000	14,250	Replace as VR BR	TB-4	6	VR	D	-	
13	192491	5867	13	192501	5867	OLTR	D	B	BRICKS	-	1,140	632,274	Y	REPLACE	TO-1	-	FL	D	2.42	234
14	192491	5867	13	192501	5867	OLTL	0	B	BRICKS	-	1,140	632,365	Y	REPLACE	TO-1	-	FL	D	1.60	314

Canal Name: KIRANA DISTY (L1) (2/7)

SI. No.	ID	RD	ST. No.	ID	RD	Design	Dist	Sub-Category	Material	Specification			Remarks							
										A	B	C								
27	31322	9547	25	31322	9547	BR	VR	B	BRICKS	90,000	15,330	3,000	40,250	REPAIR	TR-1	1	VR	B	-	
28	31476	9594	28	31476	9594	SPR	-	B	BRICKS	5,000	N.A.	2,000	-	REPLACE	TS-1	1	-	D	-	
29	34587	10542	29	34725	10544	OLR	B	B	BRICKS	-	0.250	635,771	N	REPLACE	TO-2		AOSM	D	1.44	187
30	34731	10546	30	34900	10807	OLL	B	B	BRICKS	-	0.250	635,256	Y	REPLACE	TO-2		AOSM	D	2.11	274
31	34859	10625	32	34859	10629	OP	-	A	BRICKS	5,249	15,500	13,000	25,000	REPLACE	TO-1		A	D	-	-
32	34859	10925	31	34859	10925	BR	VR	B	BRICKS	90,000	13,500	2,000	25,500	REPAIR	TR-1	1	VR	B	-	-
33	35175	10721	33	35175	10721	SP	-	B	BRICKS	5,000	N.A.	1,860	-	REPLACE	TS-1	1	-	D	-	-
34	40514	12379	34	40765	12431	OLL	B	B	BRICKS	-	0.300	632,563	Y	REPLACE	TO-2		AOSM	D	2.11	271
35	40774	12428	35	40930	12478	OLR	O	B	BRICKS	-	0.290	-	N	REPLACE	TO-2		AOSM	D	2.22	289
36	43020	13112	36	43020	13112	BR	VR	B	BRICKS	102,287	15,330	3,000	43,600	REPAIR	TR-1	1	VR	B	-	-
37	43060	13125	38	43060	13125	SP	-	B	BRICKS	6,000	N.A.	2,000	-	REPLACE	TS-1	1	-	D	-	-
38	45656	13916	39	45900	13960	OLR	B	A	BRICKS	-	0.300	634,367	N	REPLACE	TO-2		AOSM	D	1.50	187
39	47329	14428	40	47470	14499	OLL	B	A	BRICKS	-	0.330	-	Y	REPLACE	TO-2		AOSM	D	1.13	140
40	48442	14765	41	48515	14767	OLR	B	B	BRICKS	-	0.330	634,834	N	REPLACE	TO-2		AOSM	D	1.34	158
41	49491	15085	42	49700	15149	OLL	O	B	BRICKS	-	0.250	-	Y	REPLACE	TO-2		AOSM	D	2.19	198
42	49633	15128	43	49845	15205	OLR	O	B	BRICKS	-	1.000	633,730	N	REPLACE	TO-1		FL	D	4.84	604
43	49800	15175	44	50000	15240	OLR	B	B	BRICKS	-	0.250	633,323	N	REPLACE	TO-2		AOSM	D	1.44	185
44	50594	15421	45	50790	15481	OLL	B	B	BRICKS	-	0.250	632,830	Y	REPLACE	TO-2		AOSM	D	1.35	176
45	51781	15743	46	51781	15783	DP	-	A	BRICKS	7,149	14,000	13,000	28,000	REPLACE	TO-1		A	D	-	-
46	51781	15783	47	51781	15783	BR	VR	B	BRICKS	96,000	14,900	2,000	24,680	REPAIR	TR-1	1	VR	B	-	-
47	52089	15877	48	52089	15877	SP	-	B	BRICKS	5,000	N.A.	2,500	-	REPLACE	TS-1	1	-	D	-	-
48	53901	16429	49	54100	16480	OLR	B	C	BRICKS	-	0.270	-	N	REPLACE	TO-2		AOSM	D	1.54	199
49	54834	16744	50	55200	16825	OLR	B	B	BRICKS	-	0.250	-	N	REPLACE	TO-2		AOSM	D	1.08	139
50	57750	17602	51	57750	17602	BR	DR	C	BRICKS	90,000	20,500	3,000	44,500	REPLACE	TS-4	1	DR	D	-	-
51	57800	17617	52	57800	17617	SP	-	B	BRICKS	6,000	0,900	2,000	-	REPLACE	TS-1	1	-	D	-	-

Canal Name: KIRANA DISTY (L11) (3/7)

SI No.	RD	RD (km)	SI No.	RD	RD (km)	Designated	Designated	Designated	Major Category	Major Category	Extent of	Material	Specification				Remarks	13	14	15	16	17	18	19	20
													A	B	C	D									
52	54205	17741	53	54410	17403	OLR	B	A	BRICKS	-	0.160	932.785	N	REPLACE	TO-2	AOSM	D	1.30	164						
53	54204	17741	54	54500	17431	OLL	B	B	BRICKS	-	0.330	-	Y	REPLACE	TO-2	AOSM	D	1.09	140						
54	60907	18563	55	61135	18634	OLR	B	B	BRICKS	-	0.160	629.359	N	REPLACE	TO-2	AOSM	D	1.89	244						
55	61566	18766	57	61568	18796	OP	-	A	BRICKS	6.749	2.830	9.500	19.750	REPLACE	TO-1	A	D	-	-						
56	61568	18766	54	61568	18766	BR	AP	B	BRICKS	90.000	2.830	1.000	19.750	Replace as VR BR TB-4											
57	61548	18766	54	61800	18837	OLL	B	B	BRICKS	-	0.290	629.626	Y	REPLACE	TO-2	AOSM	D	1.35	175						
58	61568	18766	59	61800	18837	OLR	C	B	BRICKS	-	1.250	529.088	Y	REPLACE	TO-1	FL	U	14.40	1639						
59	61572	18767	60	61800	18837	OLR	B	B	BRICKS	-	0.250	630.187	Y	REPLACE	TO-2	AOSM	D	1.09	141						
60	63000	19202	61	63000	19202	BR	AR	B	BRICKS	70.000	45.000	3.000	57.750	REPAIR	TR-1	AR	B	-	-						
61	63251	19279				OLL	D	A	BRICKS	-	0.250	629.121	Y	REMOVE	-	-	-	-	-						
62	63743	19429		63743	19429	OP	-	A	BRICKS	6.135	22.000	20.000	26.500	REMOVE	-	-	-	-	-						
63	63743	19429	62	63743	19429	BR	VR (fall Bricks)	B	BRICKS	90.000	22.000	2.000	24.250	REPAIR	TR-1	VR	B	-	-						
64	64271	19420	63	64271	19420	SPL	-	B	BRICKS	6.000	0.809	2.390	-	REPLACE	TS-1	-	D	-	-						
65	69331	21132	65	69700	21245	OLR	SCRECHLY	B	BRICKS	-	-	-	N	Dimensions not possible	REPLACE	TO-2	AOSM	D	1.16	190					
66	69370	21144	64	69700	21245	OLL	SCRECHLY	B	BRICKS	-	-	-	Y	Dimensions not possible	REPLACE	TO-2	AOSM	D	2.04	257					
67	72989	23119	66	70260	21412	BR	-	-	BRICKS	-	-	-	-	PROPOSED	TB-4	VR	-	-	-						
68	75955	23151	68	76225	23233	OLL	SCRECHLY	B	BRICKS	-	0.250	625.472	N	REPLACE	TO-2	AOSM	D	1.54	200						
69	76952	23451	69	77215	23505	OLR	D	B	BRICKS	-	0.170	623.661	N	REPLACE	TO-2	AOSM	D	1.55	201						
70	77346	23575	70	77346	23575	BR	VR	B	BRICKS	90.000	14.350	3.000	34.160	REPAIR	TR-1	VR	B	-	-						
71	78517	23932	71	78517	23932	SPL	-	B	BRICKS	6.000	0.590	1.500	-	REPLACE	TS-1	-	D	-	-						
72	80761	24516	72	81020	24695	OLR	D	B	BRICKS	-	0.300	623.350	N	REPLACE	TO-2	AOSM	D	1.75	200						
73	83120	25335	73	83423	25427	OLL	SCRECHLY	A	-	-	-	-	-	Dimensions not possible	REPLACE	TO-2	AOSM	D	1.73	202					
74	83727	25520	74	84000	25603	OLR	D	B	BRICKS	-	0.250	623.310	N	REPLACE	TO-2	AOSM	D	2.13	252						
75	83930	25642	77	84205	25666	OLR	D	B	BRICKS	-	0.250	623.071	N	REPLACE	TO-2	AOSM	D	1.13	199						
76	84193	25642	78	84285	25664	OLL	D	A	BRICKS	-	0.420	623.007	Y	REPLACE	TO-2	AOSM	D	1.58	178						

Canal Name: KIRANA DIGITY (L11) (4/7)

Sl. No.	Surveyed	Submerged	Designed	Original	Material	Height	Span	Remarks	Specification				Remarks						
									A	B	C	D							
77	84206	25666	75	84206	25666	DP	-	A	BRICKS	2.589	13.500	13.000	24.840	REPLACE	TO-1	A	D	-	
78	84206	25666	75	84206	25666	BR	VR	B	BRICKS	80.000	13.500	2.000	24.840	REPAIR	TR-1	1	VR	B	-
79	87000	26518	78	87000	26518	SPL	-	B	BRICKS	6.000	N.A	1.500	-	REPLACE	TS-1	1	-	O	-
80	87119	26554	80	87119	26554	BR	DR	B	BRICKS	90.000	23.330	2.000	33.170	REPAIR	TR-1	1	DR	B	-
81	87149	26563	81	87200	26570	OLR	A	B	BRICKS	-	62.898	N	SubmerGed	REPLACE	TO-2	AOSM	D	1.36	174
82	87343	26522	82	87343	26922	PIPE	-	-	STEEL	-	-	-	-	RETAIN	TO-2	-	A	-	-
83	88599	27127	83	89285	27214	OLR	C	B	BRICKS	-	0.250	620.889	N	REPLACE	TO-2	AOSM	D	1.68	215
84	89215	27193	84	89527	27288	OLL	O	C	BRICKS	-	0.250	620.376	Y	REPLACE	TO-2	AOSM	D	1.87	172
85	90000	27432	85	90000	27432	BR	VR	C	BRICKS	90.000	14.000	2.000	24.500	REPLACE	TR-4	1	VR	D	-
86	90219	27499	86	90219	27499	SPL	-	B	BRICKS	7.000	N.A	1.500	-	REPLACE	TS-1	1	-	-	-
87	92264	28122	-	-	-	OLR	D	B	BRICKS	-	0.250	619.892	N	REMOVE	-	-	-	-	-
88	94459	28791	87	94721	28887	OLR	B	B	BRICKS	-	0.250	618.370	N	REPLACE	TO-2	AOSM	D	1.53	185
89	94485	28799	88	94800	28895	OLL	B	B	BRICKS	-	0.250	618.904	Y	REPLACE	TO-2	AOSM	D	1.51	190
90	94810	28856	89	94810	28999	BR	FR	A	R.C.C	90.000	3.000	3.000	37.250	Replace as VR	TR-4	1	VR	D	-
91	94920	28932	90	94920	28932	SPL	-	B	BRICKS	6.000	N.A	1.500	-	REPLACE	TS-1	1	-	D	-
92	95275	29177	91	95275	29177	SPR	-	A	BRICKS	6.000	N.A	1.500	-	REPLACE	TS-1	1	-	D	-
93	95800	29200	92	95800	29200	BR	VR	A	R.C.C	90.000	25.830	3.000	49.250	RETAIN	-	-	VR	A	-
94	96201	29322	93	96485	29400	OLL	A	A	BRICKS	-	-	617.828	Y	REPLACE	TO-2	AOSM	D	1.51	186
95	96796	29485	94	97015	29570	OLR	B	A	BRICKS	-	0.330	619.419	Y	REPLACE	TO-2	AOSM	D	1.77	328
96	97667	29630	95	98145	29915	OLR	S	B	BRICKS	-	0.220	617.644	Y	REPLACE	TO-2	AOSM	D	1.36	175
97	99900	30450	96	99900	30450	BR	VR	B	R.C.C	90.000	13.580	3.000	32.500	REPAIR	TR-1	1	VR	B	-
98	100000	30480	97	100000	30480	AO	-	A	BRICKS	90.000	21.000	2.000	117.330	RETAIN	TO-2	-	A	-	-
99	100300	30571	98	100300	30571	SPL	-	B	BRICKS	8.000	N.A	1.500	-	REPLACE	TS-1	1	-	D	-
100	101201	30846	99	101820	30874	OLL	A	A	BRICKS	0.75	-	618.241	Y	REPLACE	TO-2	AOSM	D	0.72	93
101	102352	31197	100	102848	31286	OLL	D	B	BRICKS	-	0.250	618.353	Y	REPLACE	TO-2	AOSM	D	2.02	282
102	103337	31558	101	103840	31650	OLR	D	B	BRICKS	-	0.250	618.389	Y	REPLACE	TO-2	AOSM	D	1.56	203

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Sl. No.	Surveyed RD	Revised RD	Designed RD	Design No.	Height	Comp. No.	Material	Ext. No.	Remarks	Quantity		Remarks	No.	No.	No.	No.	No.	No.
										A	B							
129	121800	37425	125	121800	37425	SPL	A	BRICKS	6,000	N.A.	2,000	-	REPLACE	TS-1	-	-	-	-
130	123143	37534				OLR	B	BRICKS	-	0.250	613.858	Y	REMOVE	-	-	-	-	-
131	123173	37643	126	123475	37635	OLL	B	BRICKS	-	0.250	614.593	Y	REPLACE	TO-2	AOSM	D	2.59	331
132	126181	38654	129	129334	38506	OLL	D	BRICKS	-	0.250	614.072	Y	REPLACE	TO-2	AOSM	D	2.19	263
133	126194	38666	130	128500	38557	OLR	D	BRICKS	-	0.250	613.524	Y	REPLACE	TO-2	AOSM	D	3.18	382
134	126270	38487	132	126420	38594	OLL	D	BRICKS	-	3.250	612.999	Y	REPLACE	TO-1	FL	D	14.34	1731
135	126532	38597	133	126920	38594	OLL	D	BRICKS	-	0.250	614.862	Y	REPLACE	TO-2	AOSM	D	1.76	227
136	126546	38571		126546	38571	OP	-	BRICKS	1,043	5.750	12.500	17,000	REMOVE	-	-	-	-	-
137	126548	38571	131	126548	38571	BR	FP	Wooden Slab	90,000	5.750	1,000	17,000	Replace as VR BR	TR-4	1	VR	D	-
138	131142	39972	134	131150	39975	OLR	B	BRICKS	-	0.250	612.028	Y	REPLACE	TO-2	AOSM	D	2.26	292
139	132654	40433	135	132554	40433	BR	FP	Wooden Slab	90,000	1.540	1,000	25,500	Replace as VR BR	-	-	-	-	-
140	132922	40515	136	132922	40515	BR	DR	R.C.C	90,000	34.500	3,000	30,500	REPAIR	TR-1	1	DR	B	-
141	135931	41432	137	135931	41432	BR	FP	Wooden Slab	90,000	3,500	1,000	30,000	Replace as VR BR	TR-4	1	VR	D	-
142	136699	41968	138	137100	41768	OLL	B	BRICKS	-	0.250	611.568	Y	REPLACE	TO-2	AOSM	D	1.43	175
143	140600	42855	139	140815	42859	OLL	B	BRICKS	-	0.250	610.668	Y	REPLACE	TO-2	AOSM	D	0.77	100
144	140968	42967	140	140968	42967	BR	VR	R.C.C	90,000	13,500	2,000	24,330	REPAIR	TR-1	1	VR	B	-
145	141637	43171	141	142000	43282	OLL	B	BRICKS	-	0.250	610.126	Y	REPLACE	TO-2	AOSM	D	1.06	136
146	141985	43277				OLR	D	BRICKS	-	0.250	610.525	N	REMOVE	-	-	-	-	-
147	142031	43291	142	142000	43343	OLL	D	BRICKS	-	1,500	609.839	Y	Head of Trench Minor	TO-1	FL	D	11.32	1309
148	144446	44027	144	144800	44196	OLR	B	BRICKS	-	0.250	609.544	Y	REPLACE	TO-2	AOSM	D	1.08	136
149	144699	44092	145	145048	44211	OLL	B	BRICKS	-	0.250	609.436	Y	REPLACE	TO-2	AOSM	D	0.76	102
150	145758	44428	146	145758	44428	BR	VR	R.C.C	90,000	13,500	2,000	16,750	REPAIR	TR-1	1	VR	B	-
151	149049	46430	147	147325	44905	OLR	A	BRICKS	0.25	-	609.438	N	REPLACE	TO-2	AOSM	D	0.95	122
152	149758	45540	148	149445	45543	OLR	-	BRICKS	-	-	-	-	REPLACE	TP-3	PIPE	D	0.30	30
153	150253	45797	149	150400	46003	OLL	D	BRICKS	-	0.200	609.242	Y	REPLACE	TO-2	AOSM	D	0.64	83

Canal Name: KIRANA DISTY, D.111

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S. No.	ID	RD	RD (m)	SO. No.	ID	RD	RD (m)	Design	Major Category	Minor Category	Material	Specifications				Remarks	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
												A	B	C	D																											
154	150282	45809	150	150860	45921	OLR	SCHRECHLY	B	BRICKS	-	-	608.156	N	-	-	-	-	REPLACE	TO-2	AOSM	D	1.82	237																			
155	150377	45835	151	150750	45949	OLR	D	B	BRICKS	-	0.250	605.591	N	-	-	-	-	REPLACE	TO-2	AOSM	D	1.88	238																			
156	150548	45887	152	150910	45997	OLR	D	B	BRICKS	-	0.250	605.121	N	-	-	-	-	REPLACE	TO-2	AOSM	D	1.44	183																			
157	150735	45944				OLR	A	A	BRICKS	0.33	-	610.180	N	-	-	-	-	REMOVE	-	-	-	-	-																			
158	150830	45973	155	151400	46147	OLR	D	B	BRICKS	-	0.250	610.282	N	-	-	-	-	REPLACE	TO-2	AOSM	D	1.10	-																			
159	151001	46025				OLR	D	B	BRICKS	-	0.250	608.858	N	-	-	-	-	REMOVE	-	-	-	-	-																			
160	151125	46043	154	151125	46063	DP	-	A	BRICKS	1.164	12.830	12.000	16.000	Need of Regan Minor.	-	-	-	REPLACE	TO-1	A	D	-	-																			
161	151125	46083	153	151125	46083	BR	VR	C	R.C.C	90.000	12.830	2.000	16.000	-	-	-	-	REPLACE	TO-4	VR	D	-	-																			
162	155000	47244	157	155322	47342	DP	-	A	BRICKS	2.211	-	16.000	14.670	-	-	-	-	REPLACE	TO-1	A	D	-	-																			
163	155000	47244	156	155300	47335	OLR	D	B	BRICKS	-	3.250	605.298	Y	Need of Hunge Minor.	-	-	-	REPLACE	TO-1	FL	D	15.01	1776																			
164	156475	47884	158	156800	47793	OLL	B	B	BRICKS	-	0.250	605.668	N	-	-	-	-	REPLACE	TO-2	AOSM	D	0.63	81																			
165	156887	48307	159	156887	48307	BR	VR	A	BRICKS	77.000	10.500	2.000	11.000	-	-	-	-	RETAIN	-	RB	A	-	-																			
166	159700	48877	160	159700	48877	BR	VR	B	R.C.C	74.000	50.500	2.000	36.500	-	-	-	-	REPAIR	TR-1	VR	B	-	-																			
167	159792	48795	161	159787	48887	OLR	B	B	BRICKS	-	0.250	606.171	Y	-	-	-	-	REPLACE	TO-2	AOSM	D	1.23	190																			
168	160273	48851	162	160273	48851	BR	VR	C	R.C.C	90.000	13.330	2.000	20.000	-	-	-	-	REPLACE	TO-4	VR	D	-	-																			
169	162899	49851	163	162898	49851	BR	VR	Under Canal	R.C.C	90.000	18.750	2.000	17.750	-	-	-	-	RETAIN	-	VR	A	-	-																			
170	164245	50062	164	164272	50070	OLL	B	B	BRICKS	-	0.250	604.439	N	-	-	-	-	REPLACE	TO-2	AOSM	D	0.64	83																			
171	166056	50814	167	166044	50792	OLR	B	B	BRICKS	-	0.250	603.901	Y	-	-	-	-	REPLACE	TO-2	AOSM	D	1.75	226																			
172	166152	50643	165	166152	50843	DP	-	B	BRICKS	2.415	5.000	5.000	7.000	-	-	-	-	REPLACE	TO-1	A	D	-	-																			
173	166152	50843	168	166450	50734	OLL	D	B	BRICKS	-	3.250	604.347	Y	Need of KChs Minor.	-	-	-	REPLACE	TO-1	FL	D	9.48	1147																			
174	166150	50844	169	166450	50734	OLL	A	B	BRICKS	0.35	-	604.439	Y	-	-	-	-	REPLACE	TP-3	PIPE	D	0.39	50																			
175	166157	50645	166	166157	50945	BR	FP	D	BRICKS	90.000	5.000	1.000	7.000	-	-	-	-	Replaces VR BR	TO-4	VR	D	-	-																			
176	170513	51972	170	170513	51972	BR	FP	D	BRICKS	90.000	11.500	2.000	15.000	-	-	-	-	REPLACE	TO-4	VR	D	-	-																			
177	171289	52209	171	171500	52301	OLL	D	B	BRICKS	-	0.250	-	N	-	-	-	-	REPLACE	TO-2	AOSM	D	1.55	201																			
178	173474	52875	172	173600	52974	OLR	B	B	BRICKS	-	0.250	601.786	Y	-	-	-	-	REPLACE	TO-2	AOSM	D	1.64	213																			

Sl. No.	RD		RD		RD		RD		Original	Revised Category	Minor Category	Material	Estimation			Remarks								
	RD	RD	RD	RD	RD	RD	RD	RD					RD	RD	RD		RD	RD						
1	0	0	1	0	0	0	0	0	0	DR	VR	C	RCC & BRICKS	90,000	14,000	1,000	7,000	REPLACE	TB-4	6	VR	D	-	
2	1559	475	2	1559	475	475	475	475	475	BR	VR	B	RCC & BRICKS	90,000	7,000	1,000	5,500	REPAIR	TR-1	2	VR	B	-	
3	3323	1013	3	3323	1013	1013	1013	1013	1013	BR	VR	C	RCC & BRICKS	90,000	13,840	1,000	8,000	REPLACE	TB-4	6	VR	D	-	
4	5223	1582	4	5200	1585	1585	1585	1585	1585	OLTR	D	B	BRICKS	-	1,000	830,080	N	REPLACE	TO-1		FL	D	1.84	212
5	5223	1582	5	5200	1585	1585	1585	1585	1585	OLTF	D	B	BRICKS	-	1,500	-	N	REPLACE	TO-1		FL	D	3.04	394

Chief Name: MALKAWA, MINOR (1/2)

Project Area: UC

Sl. No.	MS	RD	SI. No.	SI. No.	RC	DC	Major Category	Minor Category	Material	Quantity	Unit	Remarks	VR	DR	AO	SM	DR	AO	SM				
1	54	16	1	54	16	BR	VR	A	RCC & BRICKS	90,000	26,160	1,000	12,000	REPAIR						VR	A	-	
2	3274	998	2	1610	491	OLL	VR	B	RCC & BRICKS	90,000	15,250	1,000	11,500	REPAIR	TR-1					AO	D	1.98	253
3	4400	1341	4	4405	1343	OLL	O	B	BRICKS	-	0.320	615,991	NO	REPLACE	TO-2					AO	D	1.65	214
4	4419	1347	5	4419	1347	BR	VR	B	RCC & BRICKS	90,000	15,000	1,000	12,500	REPAIR	TR-1					VR	B	-	-
5	5499	1976	-	-	-	OLL	O	B	BRICKS	-	0.320	615,932	NO	SURVEYED									
6	7622	2384	6	7645	2330	OLL	O	B	BRICKS	-	0.250	615,187	YES	REPLACE	TO-2					AO	D	0.63	106
7	8619	2687	7	8620	2688	OLL	B	B	BRICKS	-	0.400	614,685	NO	REPLACE	TO-2					AO	D	1.40	199
8	10190	3106	6	10203	3110	OLL	B	B	BRICKS	-	0.400	614,652	NO	REPLACE	TO-2					AO	D	1.29	164
9	11469	3496	9	11469	3496	BR	DR	B	RCC & BRICKS	90,000	13,500	1,000	9,500	REPAIR	TR-1					DR	B	-	-
10	13120	3999	10	13134	4003	OLL	B	B	BRICKS	-	0.670	610,263	YES	REPLACE	TO-2					AO	D	2.71	351
11	13436	4095	11	13459	4095	BR	FP	B	RCC	90,000	4,000	1,000	13,250	Replace as VR	TR-4					VR	D	-	-
12	13491	4112	12	13495	4113	OLL	B	B	BRICKS	-	0.250	613,799	YES	REPLACE	TO-2					AO	D	0.66	85
13	14740	4493	13	14740	4493	BR	VR	B	RCC & BRICKS	90,000	7,920	1,000	14,500	REPAIR	TR-1					VR	B	-	-
14	16253	4954	14	16290	4985	OLL	B	B	BRICKS	-	0.420	613,198	YES	REPLACE	TO-2					AO	D	1.65	239
15	16470	5020	15	16470	5020	BR	VR	B	RCC & BRICKS	90,000	13,500	1,000	9,500	REPAIR	TR-1					VR	B	-	-
16	17769	5416	16	17460	5322	OLL	B	B	BRICKS	-	0.250	612,907	NO	REPLACE	TO-2					AO	D	1.72	222
17	17867	5446	-	-	-	OLL	O	B	BRICKS	-	0.320	612,146	YES	SURVEYED									
18	20771	6331	17	20762	6334	OLL	O	B	BRICKS	-	0.420	611,616	YES	REPLACE	TO-2					AO	D	2.57	333
19	22668	7001	18	22660	7007	OLL	B	B	BRICKS	-	0.420	611,289	YES	REPLACE	TO-2					AO	D	1.81	209
20	24072	7337	19	24000	7315	OLL	A	O	BRICKS	-	1,000	612,927	YES	REPLACE	TP-3					PIPE	D	0.08	10
21	24760	7647	-	-	-	OLL	SCRATCHLY	B	BRICKS	-	1,500	610,902	YES	REPLACE									
22	24820	7561	20	24820	7563	BR	DR	B	RCC & BRICKS	90,000	53,500	1,000	14,250	REPAIR	TR-1					DR	B	-	-
23	26414	6051	-	-	-	OLL	O	B	BRICKS	-	0.290	612,178	YES	REPLACE									
24	32664	9660	22	32664	9664	BR	VR	B	RCC & BRICKS	90,000	34,160	1,000	10,000	REPAIR	TR-1					VR	B	-	-
25	32645	9656	21	32665	9656	PIPE	-	A	M. STEEL	0.33	2,000	10,000	-	PIPE CROSSING MINOR	TO-2						A	-	-

General Name: MALKANA MINOR (1.15)

(2/2)

Project Area: LJC

Sl. No.	RD	RD (IN)	RD	RD	Designation	Quantity	Material	Remarks	Quantity		Remarks		
									FL	D			
25		33130	19088	OLL				TO-1		FL	D	1.10	-
26	32700	9997	33330	10159	OLTF	8	BRICKS	REPLACE		FL	D	4.85	915
27	32700	9997	33330	10159	OLTR	8	BRICKS	REPLACE		FL	D	1.77	228
28	32703	9998	33330	10159	OLTL	8	BRICKS	REPLACE		FL	D	2.70	349

Sl. No.	Surveyed	Surveyed	Designed	Designed	Major Category	Area/Category	Status	Material	Specifications		Remarks								
									RD	RD		A	B						
1	0	0	1	0	BR	VR	B	RCC & BRICKS	90,000	12,820	1,000	8,000	REPAIR	TR-1	2	VR	B	-	
2	243	74	2	220	OLL	B	B	BRICKS	-	0.250	908,807	Y	REPLACE	TO-2	6	AOSM	O	1.13	147
3	2129	646	3	2125	BR	VR	D	RCC & BRICKS	80,000	16,420	1,000	21,500	REPLACE	TR-1	6	VR	D	-	
4	2881	811	4	2851	OLL	D	B	BRICKS	-	0.250	607,575	Y	REPLACE	TO-2	-	AOSM	D	1.09	135
5	4897	1523	5	5000	OLR	D	A	BRICKS	-	0.250	607,758	Y	REPLACE	TO-2	-	AOSM	D	1.80	234
6	5150	1570	6	5150	BR	VR	B	RCC & BRICKS	90,000	13,500	1,000	12,500	REPAIR	TR-1	2	VR	B	-	
7	5407	1646	-	-	OLL	B	B	BRICKS	-	0.250	608,668	Y	SURVEYED	-	-	-	-	-	
8	7648	2331	7	7660	OLL	B	B	BRICKS	-	0.220	608,280	N	REPLACE	TO-2	-	AOSM	D	2.81	258
9	9229	2813	-	9229	DP	B	B	BRICKS	4,868	-	4,000	5,320	REMOVE	-	-	-	-	-	
10	10122	3085	8	10122	BR	FP	C	BRICKS	90,000	5,820	1,000	14,920	Replace as VR BR TR-1	-	7	VR	D	-	
11	10446	3184	9	10446	BR	Railway Bridge	A	STEEL & BRICKS	75,000	10,320	1,000	40,000	RETAIN	-	-	RB	A	-	
12	11575	3528	10	11575	BR	Railway Bridge	A	STEEL & BRICKS	110,000	21,750	1,000	23,000	RETAIN	-	-	RB	A	-	
13	11742	3579	11	11742	BR	VR	A	RCC & BRICKS	105,000	33,000	1,000	8,620	RETAIN	-	-	VR	A	-	
14	11796	3590	12	11800	OLL	B	A	BRICKS	-	0.220	600,492	Y	REPLACE	TO-2	-	AOSM	D	1.29	154
15	13432	4094	13	13485	OLL	B	B	BRICKS	-	0.420	599,245	Y	REPLACE	TO-2	-	AOSM	D	1.96	253
16	13432	4094	13	13485	OLL	B	A	BRICKS	-	0.250	599,608	Y	REPLACE	TO-2	-	AOSM	D	0.81	109
17	17785	5421	15	17865	OLL	B	B	BRICKS	-	0.220	-	Y	REPLACE	TO-2	-	AOSM	D	2.17	275
18	19921	6072	19	19921	AC	-	B	RCC & BRICKS	90,000	5,000	3,000	70,000	REPAIR	TO-2	-	-	-	-	
19	20020	6102	20	20020	BR	VR	A	RCC & BRICKS	90,000	14,250	1,000	5,160	RETAIN	-	-	VR	A	-	
20	20043	6109	16	19800	OLL	D	B	BRICKS	-	0.750	597,178	N	REPLACE	TO-1	-	FL	O	1.47	181
21	20043	6109	18	19800	OLL	D	B	BRICKS	-	0.220	-	N	REPLACE	TO-1	-	FL	O	2.50	324
22	20043	6109	17	19800	OLL	D	B	BRICKS	-	1,000	597,900	N	REPLACE	TO-1	-	FL	D	2.31	288

Sl. No.	RC	RD	RD (m)	S. No.	S. No. (ft)	Original Depth (ft)	Original Depth (m)	Water Channel	Material	Remarks	Dimensions				Remarks	Sl. No.	Sl. No. (ft)	Remarks
											A	B	C	D				
1	9	0	0	0	0	0	0	BR	A	RCC & Bricks	90,000	14,320	1,000	8,500	RETAIN			VR A
2	1036	316	2	1036	316	BR	BR	VR	D	RCC & Bricks	90,000	7,500	1,000	8,000	REPLACE	TB-4	6	VR D
3	2000	610	3	2000	610	BR	BR	VR	B	RCC & Bricks	90,000	11,820	1,000	6,580	REPAIR	TR-1	2	VR B
4	2270	682	4	2248	685	OLL	OLL	B	A	Bricks	-	0,250	802,503	NO	REPLACE	TO-2		AOSM D
5	3645	1111	5	4485	1361	OLL	OLL	B	D	Bricks	-	-	-	COMPLETELY DAMAGED	REPLACE	TO-2		AOSM D
6	4532	1361				OLL	OLL	B	B	Bricks	-	0,250	600,827	YES	REMOVE	-		-
7	6708	2045	6	6708	2045	BR	BR	VR	C	RCC & Bricks	90,000	12,580	1,000	7,880	REPLACE	TB-4	6	VR D
8	7000	2104	7	7000	2104	BR	BR	VR	C	RCC & Bricks	80,000	47,000	1,000	12,000	REPLACE	TB-4	6	VR D
9	7288	2221	8	7300	2225	OLL	OLL	B	C	Bricks	-	0,320	599,547	YES	REPLACE	TO-2		AOSM D
10	8400	2560	9	8400	2560	BR	BR	VR	B	RCC & Bricks	90,000	15,250	1,000	9,820	REPAIR	TR-1	2	VR B
11	9888	2953	10	9888	2953	BR	BR	VR	A	RCC & Bricks	90,000	13,420	1,000	6,750	RETAIN			VR A
12	10542	3213	11	10550	3216	OLL	OLL	B	B	Bricks	-	0,350	599,039	YES	REPLACE	TO-2		AOSM D
13	12000	3658	12	12000	3658	BR	BR	VR	B	RCC & Bricks	90,000	13,750	1,000	6,980	REPAIR	TR-1	2	VR B
14	13425	4092	13	13440	4097	OLL	OLL	D	A	Bricks	-	0,680	587,800	NO	REPLACE	TO-1		FL D
15	13624	4092	15	13440	4097	OLL	OLL	D	A	Bricks	-	0,750	-	NO	REPLACE	TO-1		FL D
16	13425	4092	14	13440	4097	OLL	OLL	D	A	Bricks	-	0,750	587,277	NO	REPLACE	TO-1		FL D

Sl. No.	RD (m)	RD (m)	Sl. No.	RD (m)	RD (m)	Major Category	Minor Category	Channel	Material	Specifications				Remarks			
										A	B	C	D				
1	15	5	1	15	5	BR	VR	B	RCC SLAB	70,000	14,000	1,000	9,750	REPAIR	TR-1	2	VR
2	236	72	2	195	59	OLL	B	B	BRICKS	-	0.300	598,604	NO	REPLACE	TO-2	AOSM	D 1.20
3	1165	355	3	1165	355	BR	VR	B	RCC SLAB	86,000	28,500	1,000	8,000	REPAIR	TR-1	2	VR
4	3323	10131	4	3580	1091	OLR	B	B	BRICKS	-	0.300	-	YES	REPLACE	TO-2	AOSM	D 1.33
5	5100	1554	5	5100	1554	BR	VR	B	RCC SLAB	90,000	13,000	1,000	8,300	REPAIR	TR-1	2	VR
6	7782	2306	6	7775	2370	OLR	B	B	BRICKS	-	0.500	-	YES	REPLACE	TO-2	AOSM	D 1.91
7	7874	4444	7	7890	2405	OLL	B	B	BRICKS	-	0.300	595,748	YES	REPLACE	TO-2	AOSM	D 1.43
8	15899	4785				OLL	B	B	BRICKS	-	0.500	582,802	YES	REPLACE	-	-	-
9	18175	4830	8	18175	4830	BR	VR	B	BRICKS	90,000	12,500	1,000	4,000	REPAIR	TR-1	2	VR
10	18181	4932				OLR	B	B	BRICKS	-	0.420	592,129	YES	REPLACE	-	-	-
11	25899	7894				OLTR	D	B	BRICKS	-	0.420	589,208	NO	REPLACE	-	-	-
12	25899	7894				OLTL	D	B	BRICKS	-	0.200	588,866	NO	REPLACE	-	-	-
13	25899	7894				OLTF	D	B	BRICKS	-	0.370	-	NO	REPLACE	-	-	-

(1/4)

Canal Name: SARANGWALA DISTY (23A)

Sl. No.	RD (m)	RD (ft)	Di No.	Di No. (ft)	Designed	Major Category	Minor Category	Material	Subst. Attachment	Specification				Remarks				
										A	B	C	D					
1	686	229			OLR	Type B	A	BRICK		0.250	825.841	N		REPLACE				
2	781	256	1	760	236	OLL	Type A	A	BRICK	0.25		Y		REPLACE	TP-3	PIPE	0.53	47
3	781	256		781	236	DP		A	BRICK	2.595		8.000	12.000	REMOVE				
4	1620	535	2	1920	555	SPL		C	BRICK	5.900		2.000		REPLACE	TS-1			
5	2060	634	3	2060	634	SPL		C	BRICK	5.000		2.000		REPLACE	TS-1			
6	2250	739	4	2260	739	BR	FP	C	STEEL	90.000	3.160	1.000	20.250	Replace as VR BR TB-4		VR		
7	3225	1063	5	3202	1053	OLL									TO-2	AOSM	0.59	76
8	4050	1334	6	3225	1063	OLL	Type B	B	BRICK		0.250	825.841	Y	REPLACE	TO-2	AOSM	0	113
9	7350	2414	7	4050	1334	SPR		C	BRICK	5.000		2.000		REPLACE	TS-1			
10	7350	2414	8	7350	2414	SPL		C	BRICK	5.000		2.000		REPLACE	TS-1			
11	7350	2414	9	7350	2414	SPR		C	BRICK	5.000		2.000		REPLACE	TS-1			
12	8090	2659	10	8000	2638	BR	FP	B	R.C.C	90.000	18.920	1.000	18.000	REPAIR	TR-1	VR		
13	9944	3281	11	9945	3281	OLL	Type B	B	BRICK		0.330	822.890	Y	REPLACE	TO-2	AOSM	0	107
14	9944	3281	12	9945	3281	OLL	Type A	B	BRICK	0.25			N	REPLACE	TP-3	PIPE	0.34	44
15	10180	3357	13	10180	3357	SPL		C	BRICK	5.000		2.000		REPLACE	TS-1			
16	10971	3590	14	10970	3589	OLL	Type D	B	BRICK		0.330	822.890	Y	REPLACE	TO-2	AOSM	0	124
17	10991	3592	15	11098	3582	OLL	Type B	B	BRICK		0.330	822.890	Y	REPLACE	TO-2	AOSM	0	147
18	11225	3691	16	11225	3691	BR	FP	C	RCC	90.000	3.000	1.000	18.500	Replace as VR BR TB-4		VR		
19	14514	4764	17	14515	4765	OLL	Type B	B	BRICK		0.250	821.325	Y	REPLACE	TO-2	AOSM	0	81
20	18120	5932	18	18120	5932	SPL		C	BRICK	5.000	N.A.	2.000		REPLACE	TS-1			
21	18132	5937	19	18132	5937	BR	VR	C	RCC SLAB	90.000	18.170	1.000	10.250	REPLACE	TB-4	VR		
22	18140	5938	20	18140	5938	SPR		C	BRICK	5.000	N.A.	2.000		REPLACE	TS-1			
23	17215	5647	21	17215	5647	OLL	Type B	B	BRICK		0.250	820.668	Y	REPLACE	TO-2	AOSM	0	116
24	18815	5874	22	18814	5874	OLL	Type B	B	BRICK		0.250	820.249	Y	REPLACE	TO-2	AOSM	0	98
25	19656	6091	23	19657	6091	OLL	Type B	B	BRICK		0.250	820.125	Y	REPLACE	TO-2	AOSM	0	258

St. No.	RD	RD (m)	Design	Design (m)	Discharge (cumec)	Major Category	Minor Category	Material	Specification				Remarks					
									A	B	C	D						
26	20886	6389	24	20882	4388	OLL	Type B	BRICK	-	0.250	618.282	Y	REPLACE	TO-2	AOSM	D	1	130
27	21900	6675	25	21900	6675	SPL	-	BRICK	5.000	N.A.	2.000	-	REPLACE	TS-1	-	D	-	-
28	21900	6675	21900	6675	6675	SPR	-	BRICK	5.000	N.A.	2.000	-	REMOVE	-	-	-	-	-
29	21923	6682	21923	6682	6682	DP	-	BRICK	2.851	18.750	6.000	5.000	REMOVE	-	-	-	-	-
30	21923	6682	21930	6684	6684	OLL	Type D	BRICK	-	0.250	618.866	Y	REPLACE	TO-1	FL	D	5.8	-
31	21923	6682	21939	6687	6687	OLL	Type B	BRICK	-	0.250	618.804	Y	REPLACE	TO-2	AOSM	D	1.82	210
32	21923	6682	21923	3684	3684	BR	VR	RCC SLAB	20.000	16.750	1.000	8.000	REPLACE	TS-1	VR	D	-	-
33	24481	7445	24487	7447	7447	OLA	Type B	BRICK	-	0.420	617.158	Y	REPLACE	TP-3	PIPE	D	0.58	76
34	28750	8740	28754	8743	8743	OLA	Type B	BRICK	-	0.350	614.390	Y	REPLACE	TO-2	AOSM	D	1.02	132
35	28944	8822	28942	8823	8823	OLL	Type A	BRICK	0.25	-	615.594	Y	REPLACE	TP-3	PIPE	D	0.28	35
36	29009	8939	29000	8939	8939	SPR	-	BRICK	5.000	-	2.000	-	REPLACE	TS-1	-	D	-	-
37	30997	9356	30687	9358	9358	BR	VR	RCC SLAB	-	41.000	1.000	9.000	RETAIN	-	VR	A	-	-
38	33219	10125	33220	10125	10125	OLL	Type B	BRICK	47.000	0.640	614.882	Y	REPLACE	TO-2	AOSM	D	1.07	138
39	33894	10331	33894	10331	10331	OLA	Type B	BRICK	-	0.320	613.707	Y	REPLACE	TO-2	AOSM	D	1.18	152
40	35810	10915	35830	10921	10921	OLL	Type B	BRICK	-	0.320	613.327	Y	REPLACE	TO-2	AOSM	D	0.73	94
41	39173	11940	39194	11948	11948	OLA	Type B	BRICK	-	0.250	613.114	Y	REPLACE	TO-2	AOSM	D	1.57	200
42	39830	12079	39908	12073	12073	OLL	Type B	BRICK	-	0.500	613.980	Y	REPLACE	TO-2	AOSM	D	2.16	279
43	41247	12572	41248	12572	12572	OLL	Type D	BRICK	-	0.420	614.298	Y	REPLACE	TP-3	PIPE	D	0.32	41
44	41296	12587	41299	12587	12587	OLL	Type D	BRICK	-	0.500	614.117	Y	REPLACE	TO-2	AOSM	D	1.39	179
45	41296	12587	41296	12587	12587	DP	-	BRICK	0.588	-	8.000	11.750	REMOVE	-	-	-	-	-
46	41736	12721	41720	12719	12719	OLL	Type A	BRICK	0.42	-	613.409	Y	DAMAGED	TP-3	PIPE	D	0.28	-
47	42510	12957	42510	12957	12957	OLA	Type D	BRICK	-	0.250	613.035	Y	REPLACE	TO-2	AOSM	D	1.29	150
48	42523	12961	42528	12962	12962	OLL	Type B	BRICK	-	0.540	613.504	Y	REPLACE	TO-2	AOSM	D	1.95	229
49	42687	13011	42687	13011	13011	BR	VR	RCC SLAB	90.000	14.000	1.000	6.000	REPAIR	TP-1	VR	B	-	-
50	44833	13685	44835	13686	13686	OLL	Type B	BRICK	-	0.500	612.585	Y	REPLACE	TO-2	AOSM	D	1.1	184
51	44835	13686	44836	13686	13686	SPL	-	BRICK	5.000	N.A.	2.000	-	REPLACE	TS-1	-	D	-	-

2. LCC Area

SI. No.	ID	ID (m)	ID (mm)	Designed	Designed	Material	Structure	Remarks	Remarks								
									TO-1	TO-2							
74	80056	24401	78	80056	24401	DP	BRICK	5.316	13.750	12.000	20.000	REPLACE	TO-1	A	0	-	
75	80200	24445	40	80200	24445	BR	RCC SLAB	90.000	13.750	2.000	20.000	REPAIR	TR-1	1	VR	0	
76	81094	24952	81	81872	24955	OLR	BRICK	-	0.420	591.024	Y	REPLACE	TO-2	1	AOSM	0	1.85
77	82280	25079	82	82280	25079	BR	RCC SLAB	90.000	26.500	3.000	35.500	REPAIR	TR-1	1	VR	0	
78	83348	25404	83	83396	25389	OLL	BRICK	-	0.330	592.398	Y	REPLACE	TO-2	1	AOSM	0	2.43
79	85568	26087	84	85568	26087	BR	RCC SLAB	90.000	13.500	2.000	20.000	REPAIR	TR-1	1	VR	0	
80	86329	26313	85	86336	26315	OLR	BRICK	-	0.250	591.250	Y	REPLACE	TO-2	1	AOSM	0	1.42
81	87041	26530	86	87054	26534	OLL	BRICK	-	0.330	590.951	Y	REPLACE	TO-2	1	AOSM	0	1.73
82	87490	26867	87	87478	26843	OLR	BRICK	-	0.250	591.995	Y	REPLACE	TO-2	1	AOSM	0	1.54
83	88140	26995	88	88229	26892	OLL	BRICK	-	0.420	591.463	Y	REPLACE	TO-2	1	AOSM	0	2.48
84	88425	26952	89	88513	26978	OLR	BRICK	-	0.330	588.861	Y	REPLACE	TO-2	1	AOSM	0	1.77
85	89408	27251	90	89490	27274	OLL	BRICK	-	0.250	591.053	Y	REPLACE	TO-2	1	AOSM	0	1.34
86	90784	27971	91	90816	27981	OLR	BRICK	-	0.250	588.085	Y	REPLACE	TO-2	1	AOSM	0	1.43
87	93793	28568	92	93792	28568	OLR	BRICK	-	1.000	589.488	Y	REPLACE	TO-1	1	FL	0	4.23
88	94650	28851	93	94825	28903	OLR	BRICK	-	0.330	588.448	Y	REPLACE	TO-2	1	AOSM	0	1.43
89	94859	28913	94	95028	28964	OLL	BRICK	-	0.250	587.487	Y	REPLACE	TO-2	1	AOSM	0	1.5
90	95676	29142	97	95740	29182	OLL	BRICK	0.17	-	581.089	Y	REPLACE	TP-3	1	PIPE	0	0.04
91	95801	29200	98	95801	29200	OP	BRICK	5.112	36.500	24.970	24.750	REPLACE	TO-1	1	A	0	
92	95736	29181	99	95739	29181	BR	RCC	45.000	36.500	1	22.500	REPAIR	TR-1	1	DR	0	
93	95736	29181	95	95739	29181	PIPE	STEEL	-	0.420	2	25.000	PIPE CROSSING	TO-2	1	A	-	
94	95818	29236	99	96010	29264	OLL	BRICK	-	0.420	588.612	N	REPLACE	TP-3	1	PIPE	0	0.04
95	96867	29525	100	96192	29319	OLR	BRICK	-	-	-	-	REPLACE	TO-2	1	AOSM	0	1.53
96	97156	29613	103	97249	29541	OLL	BRICK	-	0.320	547.346	Y	REPLACE	TO-2	1	AOSM	0	1.43
97	97155	29613	102	97155	29613	BR	BRICK	-	0.290	588.476	Y	REPLACE	TO-2	1	AOSM	0	1.2
98	98292	29949	104	98292	29950	BR	STEEL	90.000	4.080	2.000	28.320	Replace as VR BR	TR-4	1	VR	0	
								90.000	11.000	1	46.000	O.G.D.C	TO-2	1	VR	0	

(5/8)

Sl. No.	RD	RD (M)	Sl. No.	RD	RD (M)	Designated	Major Category	Sub-Category	Material	Specification	Quantity	Remarks	Unit	Rate	Amount			
98	98209	30330	105	99455	30314	OLL	B	B	BRICK	0.120	546,411	Y	REPLACE	TO-2	AOSM	D	1.60	214
100	101240	30870	106	101894	30984	OLL	B	B	BRICK	0.420	566,631	Y	REPLACE	TO-2	AOSM	D	1.6	233
101	102513	31248	107	102566	31282	OLR	B	B	BRICK	0.200	546,033	Y	REPLACE	TO-2	AOSM	D	1.72	222
102	104977	31997	108	104980	31998	OLL	B	B	BRICK	0.230	546,322	Y	REPLACE	TO-2	AOSM	D	1.3	168
103	105945	32292	109	105960	32303	OLR	B	B	BRICK	0.320	543,740	Y	REPLACE	TO-2	AOSM	D	1.52	184
104	104755	32539	110	104799	32552	OLL	D	B	BRICK	2.100	545,940	Y	Head of Nathel Minor REPLACE	TO-1	FL	D	15.4	1800
105	106795	32551	111	106812	32596	OLL	D	B	BRICK	0.200	545,617	Y	REPLACE	TO-2	AOSM	D	1.77	227
106	106801	32553	113	106922	32560	OLL	D	B	BRICK	0.290	545,869	Y	REPLACE	TO-2	AOSM	D	1.75	227
107	104821	32556	-	104821	32559	OP	A	B	BRICK	4.488	13,500	21,180	25,670	REMOVE	-	-	-	-
108	106849	32568	112	106849	32568	BR	VR	C	BRICK	90,000	13,500	1,000	17,000	REPLACE	TB-4	2	VR	0
109	108451	33056	114	109375	33033	OLR	B	B	BRICK	0.320	544,439	Y	REPLACE	TO-2	AOSM	D	1.97	254
110	109209	33287	115	109110	33257	OLR	B	B	BRICK	0.290	543,882	Y	REPLACE	TO-2	AOSM	D	1.06	139
111	112030	34147	116	112030	34147	BR	DR	B	BRICK	90,000	15,000	2,000	17,500	REPAIR	TB-1	1	DR	6
112	112080	34162	117	112100	34168	OLR	B	B	BRICK	0.290	543,291	Y	REPLACE	TO-2	AOSM	D	1.47	179
113	112349	34250	118	112275	34221	OLL	B	B	BRICK	0.420	543,169	Y	REPLACE	TO-2	AOSM	D	1.6	207
114	112979	34436	119	113092	34470	OLR	B	B	BRICK	0.420	541,890	Y	REPLACE	TO-2	AOSM	D	2.46	307
115	113068	34463	120	113123	34474	OLR	B	B	BRICK	0.320	542,110	Y	REPLACE	TO-2	AOSM	D	3.37	436
116	114557	34917	121	114556	34917	OLR	D	B	BRICK	0.540	542,605	Y	REPLACE	TO-2	AOSM	D	2.34	298
117	115896	35325	122	115900	35326	OLL	B	B	BRICK	0.260	542,651	Y	REPLACE	TO-2	AOSM	D	1.67	229
118	117608	35847	123	117664	35925	OLR	D	B	BRICK	0.320	542,070	Y	REPLACE	TO-2	AOSM	D	1.86	240
119	120443	36711	124	120488	36725	OLL	D	B	BRICK	0.320	542,425	Y	REPLACE	TO-2	AOSM	D	1.71	221
120	121338	37002	125	121450	37016	OLR	D	B	BRICK	0.250	541,499	Y	REPLACE	TO-2	AOSM	D	1.77	229
121	121463	37028	126	121531	37043	OLL	D	B	BRICK	4.320	541,614	Y	Head of Donna Minor REPLACE	TO-1	FL	D	21.36	2216
122	121509	37038	127	121552	37049	OLL	B	B	BRICK	0.400	541,490	Y	REPLACE	TO-2	AOSM	D	2.38	304
123	121536	37045	-	121536	37045	OP	A	B	BRICK	4.826	12,250	30,250	30,250	REMOVE	-	-	-	-
124	121549	37050	128	121549	37040	BR	VR	B	BRICK	90,000	12,250	* 1	13,500	REPAIR	TB-1	1	VR	B

Canal Name: SAQUANA_MINOR (231)

Station	Structure No.	Structure Name	Structure Type	Material	Quantity	Unit	Remarks	Dimensions				Remarks									
								A	B	C	D										
1	0	0	1	0	0	0	0	BR	O.M Road Bridge	B	BRICK	90,000	14,430	1,000	2,500	REPAIR	TR-1	2	OCM	B	-
2	790	232	2	760	232	0	0	BR	FP	B	BRICK	90,000	10,920	1,000	2,500	Replace as VR BR	TB-4	7	VR	D	-
3	2415	756	3	2415	756	0	0	BR	VR	B	RCC SLAB	90,000	39,500	1,000	3,180	REPAIR	TR-1	2	VA	B	-
4	2508	764	4	2508	764	0	0	BR	VR	B	BRICK	90,000	13,500	1,000	2,000	REPAIR	TR-1	2	VR	B	-
5	2530	771	5	2530	771	0	0	BR	VR	B	BRICK	90,000	14,420	1,000	2,500	REPAIR	TR-1	2	VR	B	-
6	2600	792	6	2600	792	0	0	BR	FP	B	BRICK	90,000	10,000	1,000	2,500	Replace as VR BR	TB-4	8	VR	D	-
7	4950	1417	7	4850	1417	0	0	BR	VR	B	BRICK	90,000	13,000	1,000	2,500	REPAIR	TR-1	2	VR	B	-
8	7986	2438	-	-	-	-	-	OLTR	Type D	B	BRICK	-	0.580	-	N	-	-	-	-	-	
9	8002	2439	8	7925	2419	0	0	OLTL	Type D	B	BRICK	-	0.660	807.871	N	REPLACE	TO-1	FL	D	1.84	207
			10	9042	2756	0	0	OLA									TO-1	FL	D	1.1	226
			9	9042	2756	0	0	OLL									TO-1	FL	D	1.74	226

Line No.	Station	Structure	Design No.	Design Date	Design Category	Major Category	Material	Estimate		Remarks	AOSM	AOSM	AOSM			
								Sub-Item	Amount							
1	3680	1218	3	4958	1237	OLL	0	B	BRICK	0.540	548,482	Y	REPLACE	TO-2	0.00	208
2	3693	1217	1	3993	1217	DP	8	B	BRICK	2.815	7,000	2,500	REPLACE	TO-1	0	-
3	4018	1225	2	4018	1225	BR	DR	B	R.C.C	43,750	1,000	6,000	REPAIR	TR-1	2	DR B
4	8860	2701	4	8860	2701	BR	VR	C	R.C.C	25,280	1,000	5,500	REPLACE	TB-4	B	VR D
5	8898	2712	6	8897	2712	OLTH	0	B	BRICK	0.500	544,322	N	REPLACE	TO-1	FL	D 1.51 195
6	8898	2712	7	8897	2712	OLTH	0	B	BRICK	0.400	544,899	N	REPLACE	TO-1	FL	D 4.48 580
7	8898	2712	5	8897	2712	OLTH	0	B	BRICK	0.500	544,198	N	REPLACE	TO-1	FL	D 1.01 208