

	12	11	10	9	8	7	6	5	4	3	2	1			
J													J		
H													H		
G													G		
F													F		
E													E		
D													D		
C													C		
B													B		
A													A		
	12	11	10	9	8	7	6	5	4	3	2	1			
SPECIFICATION OF REINFORCEMENT FOR EACH ELEMENT													TABLE FOR REINFORCEMENT BARS		
													REQUIRED REINFORCEMENT		
MEMBER	NO.	SHAPE	ø MM	LENGTH MM	NO.	LENGTH L (m)	ø MM	FOR EACH ELEMENT		TOTAL					
								LENGTH L (m)	WEIGHT (kg)	WEIGHT (kg)					
BEAM B-1 (NO=1)	1		28	15770	19	299.63	8	104.0	41.08	41.08					
	2		28	1175	4	4.7	8	104.0	41.08	41.08					
	2a		28	2160	4	8.6	10	1536.3	952.5	952.5					
	3		28	2140	4	8.6	12	47.35	42.0	42.0					
	4		28	1650	4	6.6	25	205.5	772.0	772.0					
	5		10	4335	64	277.5	28	349.36	1690.9	1690.9					
								TOTAL	3498.5	3498.5					
	6		25	3460	33	114.2									
	7		10	5175	170	879.7									
	8		10	4160	33	137.3									
	9		25	2615	33	86.3									
	10		10	1300	51	66.3									
	11		28	280	38	10.6									
	12		10	15210	1	15.21									
	13		10	1500	16	24.0									
	14		12	15210	3	46.63									
	15		10	1100	8	8.8									
	16		10	15900	8	127.2									
	17		12	120	6	0.72									
	18		28	1450	4	5.8									
	19		8	1590	44	70.0									
	20		8	1030	33	34.0									
	21		10	100	2	0.2									
SPECIFICATION OF REINFORCEMENT FOR EACH ELEMENT													TABLE FOR REINFORCEMENT BARS		
													REQUIRED REINFORCEMENT		
MEMBER	NO.	SHAPE	ø MM	LENGTH MM	NO.	LENGTH L (m)	ø MM	FOR EACH ELEMENT		TOTAL					
								LENGTH L (m)	WEIGHT (kg)	WEIGHT (kg)					
BEAM B-2 (NO=1)	1		28	15770	19	299.63	8	104.0	41.08	41.08					
	2		28	1175	4	4.7	8	104.0	41.08	41.08					
	2a		28	2160	4	8.6	10	1536.3	952.5	952.5					
	3		28	2140	4	8.6	12	47.35	42.0	42.0					
	4		28	1650	4	6.6	25	205.5	772.0	772.0					
	5		10	4335	64	277.5	28	349.36	1690.9	1690.9					
								TOTAL	3498.5	3498.5					
	6		25	3460	33	114.2									
	7		10	5175	170	879.7									
	8		10	4160	33	137.3									
	9		25	2615	33	86.3									
	10		10	1300	51	66.3									
	11		28	280	38	10.6									
	12		10	15210	1	15.21									
	13		10	1500	16	24.0									
	14		12	15210	3	46.63									
	15		10	1100	8	8.8									
	16		10	15900	8	127.2									
	17		12	120	6	0.72									
	18		28	1450	4	5.8									
	19		8	1590	44	70.0									
	20		8	1030	33	34.0									
	21		10	100	2	0.2									
SPECIFICATION OF REINFORCEMENT FOR EACH ELEMENT													TABLE FOR REINFORCEMENT BARS		
													REQUIRED REINFORCEMENT		
MEMBER	NO.	SHAPE	ø MM	LENGTH MM	NO.	LENGTH L (m)	ø MM	FOR EACH ELEMENT		TOTAL					
								LENGTH L (m)	WEIGHT (kg)	WEIGHT (kg)					
BEAM B-3 (NOS=6)	22		25	2150	5x6	64.50	10	208.8	129.5	129.5					
	23		25	2150	5x6	64.50	16	184.8	292.0	292.0					
	24		16	1650	8x6	79.20	25	285.0	1097.25	1097.25					
	25		10	3440	5x6	103.20		TOTAL	1518.75	1518.75					
	BEAM B-4 (NOS=8)	26		25	1950	5x8	78.00								
		27		25	1950	5x8	78.00								
28			16	1650	8x8	105.60									
29			10	2640	5x8	105.60									
VOLUME OF CONCRETE AND WEIGHT OF STEEL FOR ELEMENT															
TYPE OF STRUCTURE		CONCRETE CLASS (M³)			LEAN CONCRETE M³		STEEL BARS (TON)								
		-	-	M30 HEATRESTTANT			ø								
BEAM B-1 TO B-4		-	-	77.0	-		8.3545								
NOTES-															
1. THIS SHEET TO BE CONSIDERED TOGETHER WITH DRG. NO. -17-CV-111 , Sh 1 of 2.															
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02	02.2024	REINFOR. BAR CORRECTED		T.M.											
01	09.2023	bbs shfted to new sheet		TM									SUBMITTED FOR APPROVAL <input checked="" type="checkbox"/> REFERENCE		
REV. No.	DATE	DESCRIPTION		REV.BY	CHK.BY										
		E.S.Co		DSGN									Coke Oven No.2 Reconstruction. Coke Oven Battery Foundation BUTTRESS WALL, SPECIFICATION OF REINFORCEMENT		
				DRWN	BK	07.2023									
		EMPLOYER BHILAI ENGINEERING CORPORATION LIMITED		CHECKED	DS	08.2023									
				APPROVED	DS	08.2023									
		CONTRACTOR SE "GIPROKOKS"		DRG. SIZE	A2	SCALE	1:10	SHEET 2 of 2	REV.	02					
				CONTR. DRG. NO.:		REF.									
				PROJECT DRG. NO.:		D-ES-CM-CO-11-17-CV-111-I-2									