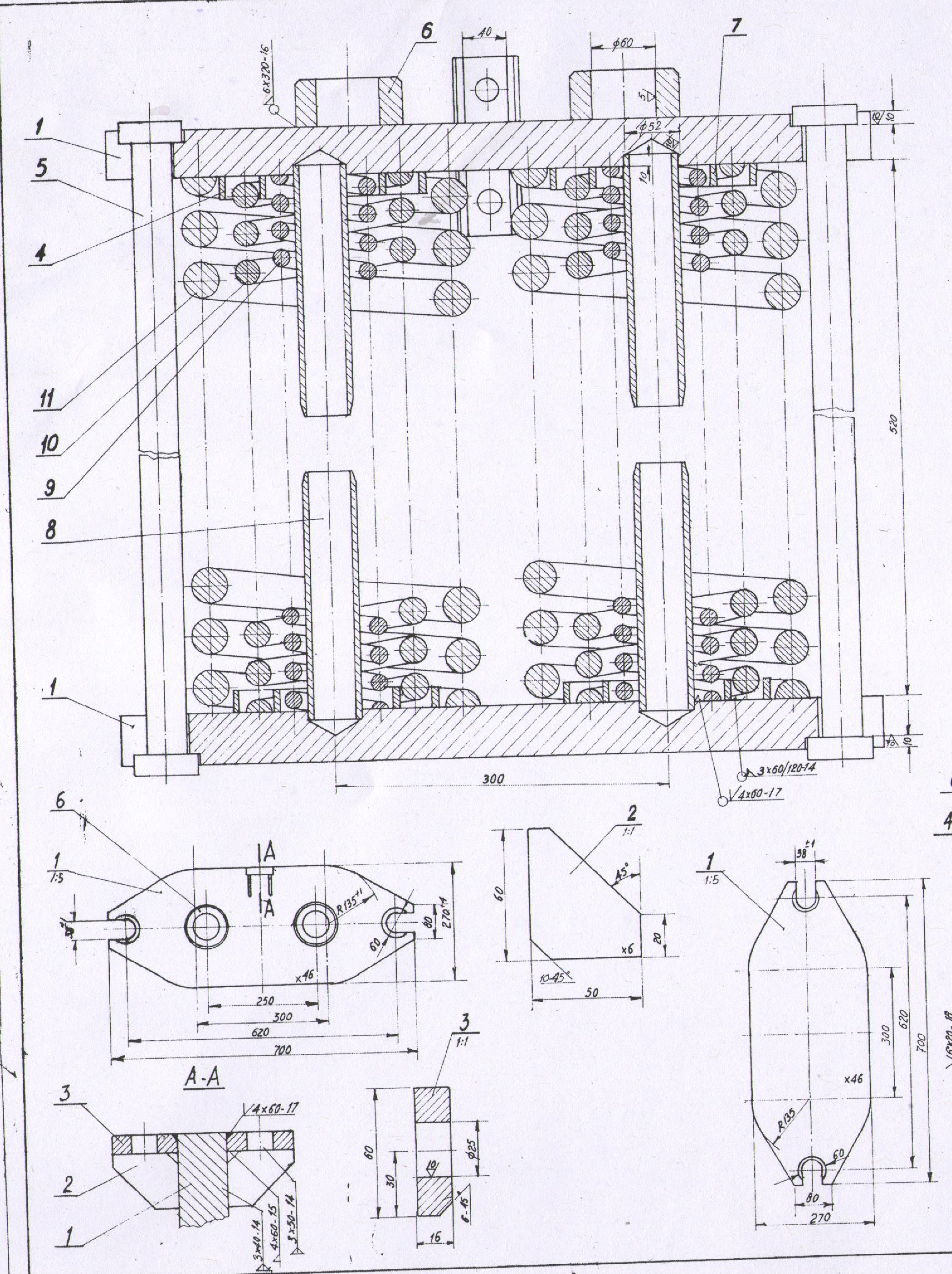

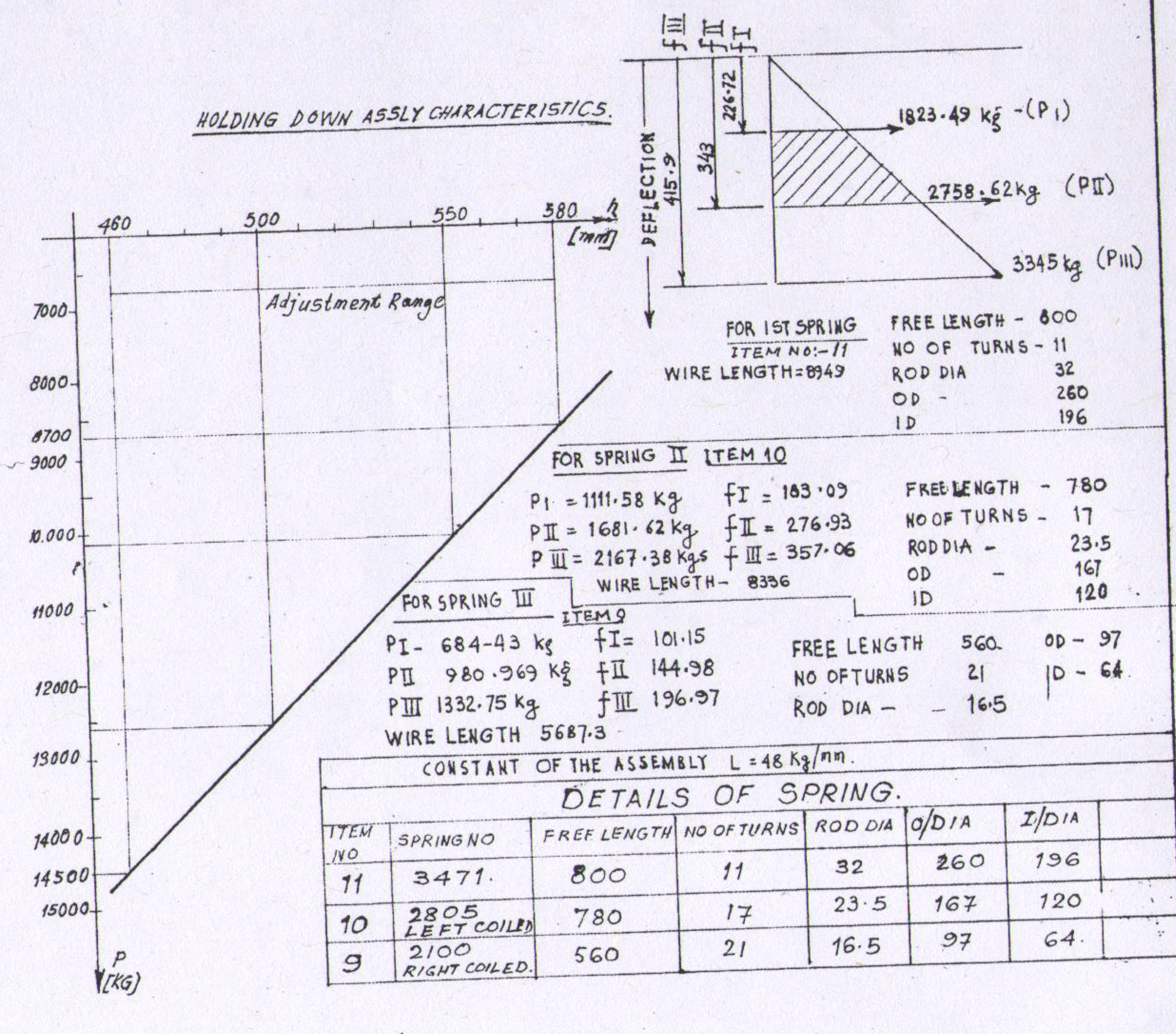

FOR 1ST SPRING
ITEM NO:- 11
WIRE LENGTH=8949

FREE LENGTH - 800
NO OF TURNS - 11
ROD DIA 32
OD - 260
ID 196

FOR SPRING II ITEM 10

PI = 1111.58 Kg fI = 183.09
PII = 1681.62 Kg fII = 276.93
PIII = 2167.38 Kgs fIII = 357.06
WIRE LENGTH- 8336

FREE LENGTH - 780
NO OF TURNS - 17
ROD DIA - 23.5
OD - 167
ID 120

FOR SPRING III
ITEM 9

PI- 684-43 kg fI= 101.15
PII 980.969 kg fII 144.98
PIII 1332.75 kg fIII 196.97
WIRE LENGTH 5687.3

FREE LENGTH 560. OD - 97
NO OF TURNS 21 ID - 64
ROD DIA - 16.5

CONSTANT OF THE ASSEMBLY L = 48 Kg/mm.

DETAILS OF SPRING.

ITEM NO	SPRING NO	FREE LENGTH	NO OF TURNS	ROD DIA	O/DIA	I/DIA
11	3471.	800	11	32	260	196
10	2805 LEFT COILED	780	17	23.5	167	120
9	2100 RIGHT COILED.	560	21	16.5	97	64.

Approved for tendering purpose
[signature] 6/1/98

SUPPLIER'S DRG. NO	CPP DRG. NO	POS NO	DESCRIPTION	QTY.	UNIT WT IN	TOTAL KGS	MATERIAL	REMARKS
		18	ELECTRIC WELD ▷6	0.08 m.		0.08	ER 146 / E-468	
		17	ELECTRIC WELD ▷4	2.8 m.		0.32	ER-146 / E-468	
		16	ELECTRIC WELD ▷6	2.56 m		0.84	ER-146 / E 468	
		15	ELECTRIC WELD ▷4	5.84 m		0.88	E-468 / ER-146	
		14	ELECTRIC WELD ▷3	4.32 M		0.32	ER-146 / E-468	
		13						
		12						
		11	SPRING NO 3471.	2	48.5	97.0	50 HSA	50 Cr4V2 IS: 3195-92
		10	SPRING NO 2805 LEFT COILED	2	25.8	51.6	50 HSA	50Cr4V2 IS:3195-92
		9	SPRING NO 2100 RIGHT COILED	2	7.8	15.6	50 HSA	50Cr4V2 IS:3195-92
		8	PIPE. B-DZ-P-CZ-BI-51X6.3X200.	4	1.52	6.08	R	IS:1239(Part I)
		7	SHEET 4X20X352	4	0.2	0.8	ST 35 X.	Fe 410 WB IS:2062-92
		6	ROUND BAR 100X45	2	2.10	4.20	ST 35	Fe 410 WB IS:2062-92
		5	BAR OF SPRING HOLDING DOWN ASSLY	2	5.33	10.66	45 C8 IS: 9550-80	45C8 IS:9550-80
		4	FLATBAR 20X6X577	4	0.70	2.8	ST 35	Fe 410 WB IS:2062-92
		3	FLAT BAR 60X16X60	2	0.45	0.90	ST 35 K	Fe 410WB IS:2062-92
		2	SHEET 6X50X50	4	0.18	0.72	ST.35X	Fe 410WB IS:2062-92
		1	SHEET 46X270X700	2	61.0	122.0	ST 35	Fe 410WB IS:2062-92

-	SPRING. ASSEMBLY.	-	314.8 Kgs	ASSLY.	-	1:2	167.001(N) BM-033
POS NO.	DESCRIPTION.	QTY	UNIT WT.	MATERIAL	G.A.DRG.NO	SC	DRG. NO.

AGREED.

A.K. AGARNAL.
SUPDT. T/CELL
TPP./TBS(O)

CPP	BOKARO STEEL PLANT.			
SHOP	CAPTIVE POWER PLANT.			
UNIT.	BOWL MILL.			
DESCRIPTION OF DRG.	DETAILS OF SPRING ASSEMBLY.			
REVISIONS	TRACED	K.K.GHOSH	DATE	DEC'89
MATERIAL CHANGED AS PER PLB. ON 8.12.95	CHECKED	Z.N.ANSARI	SCALE	
	RECOMMND	A.K.AGARWAL	167.001(N)/BM -033	
	SUBMITTED			
	APPROVED			