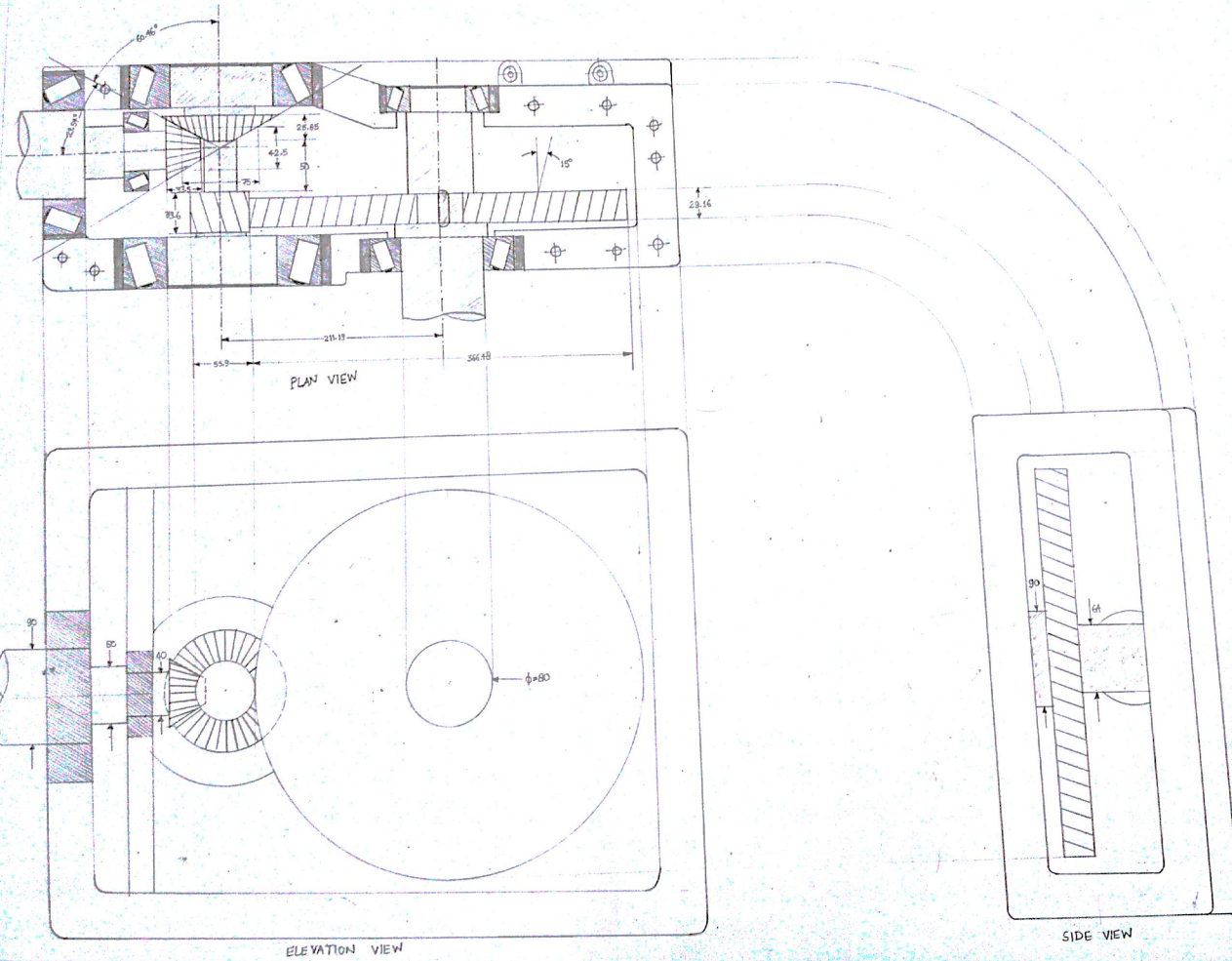


III - J

POWER : 9KW
 INPUT : 1450 RPM
 OUTPUT : 125 RPM

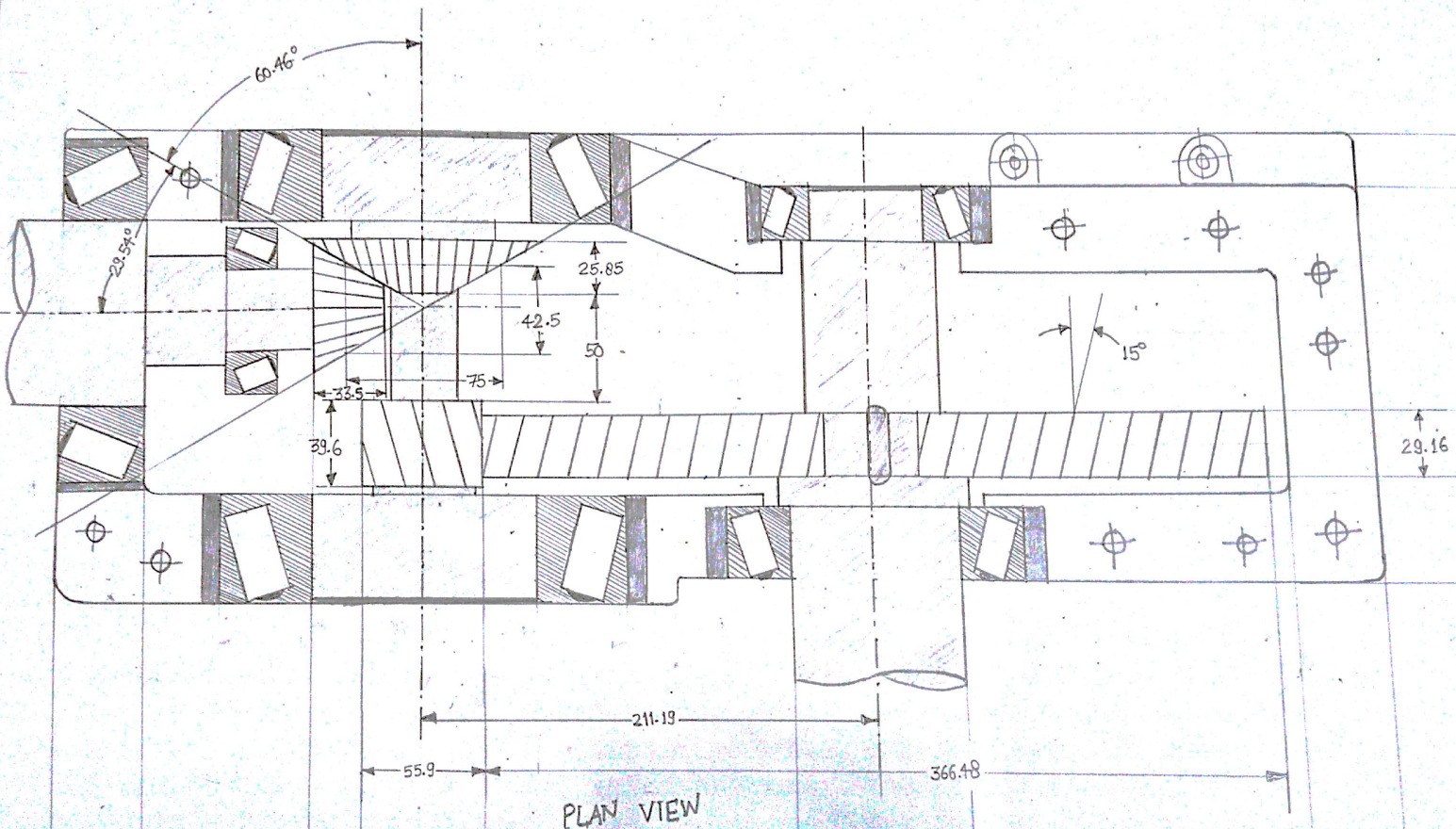
GENERAL
 CONTINUOUS
 MEDIUM SHOCK

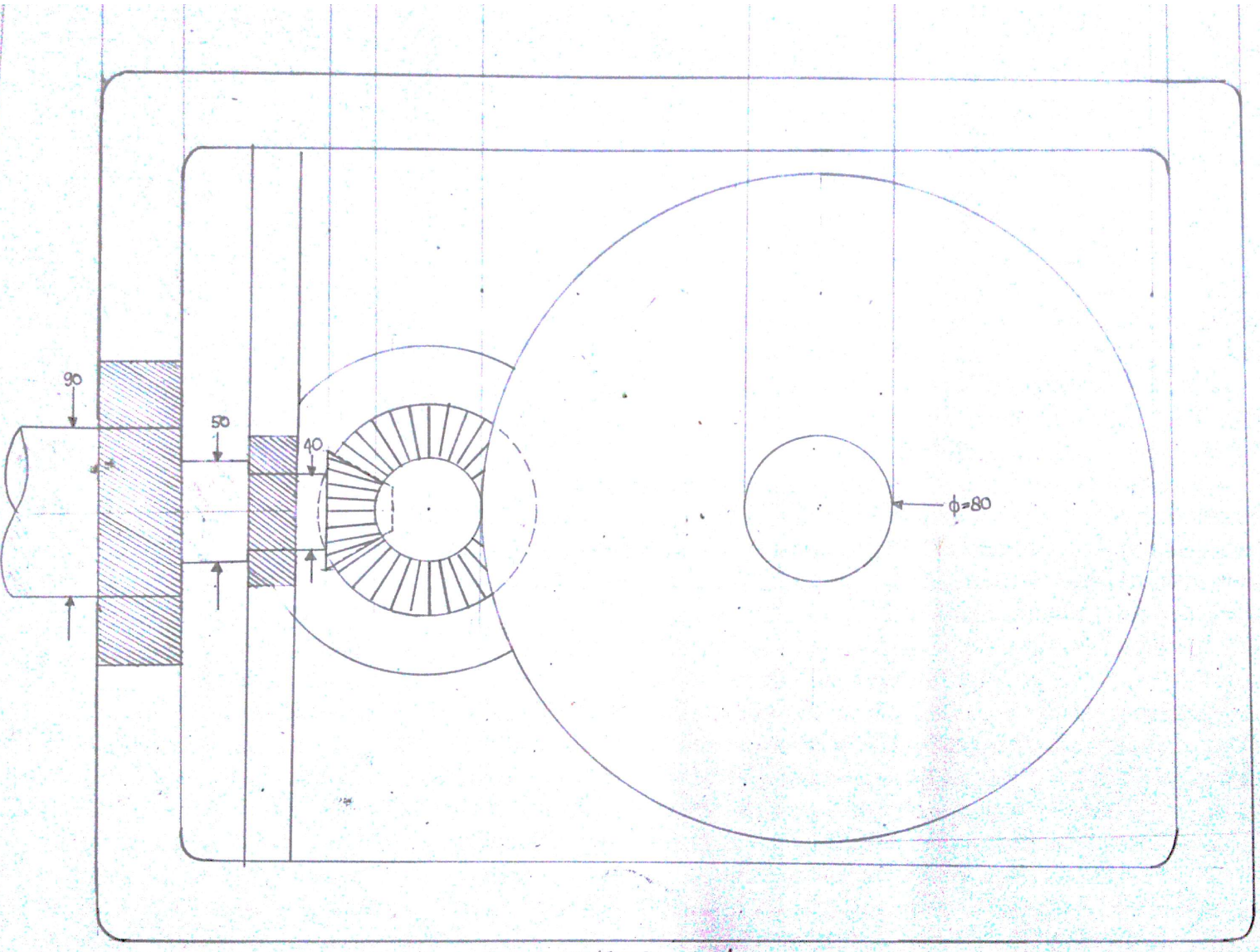
SCALE 1:2
 ALL DIMENSIONS ARE IN MM



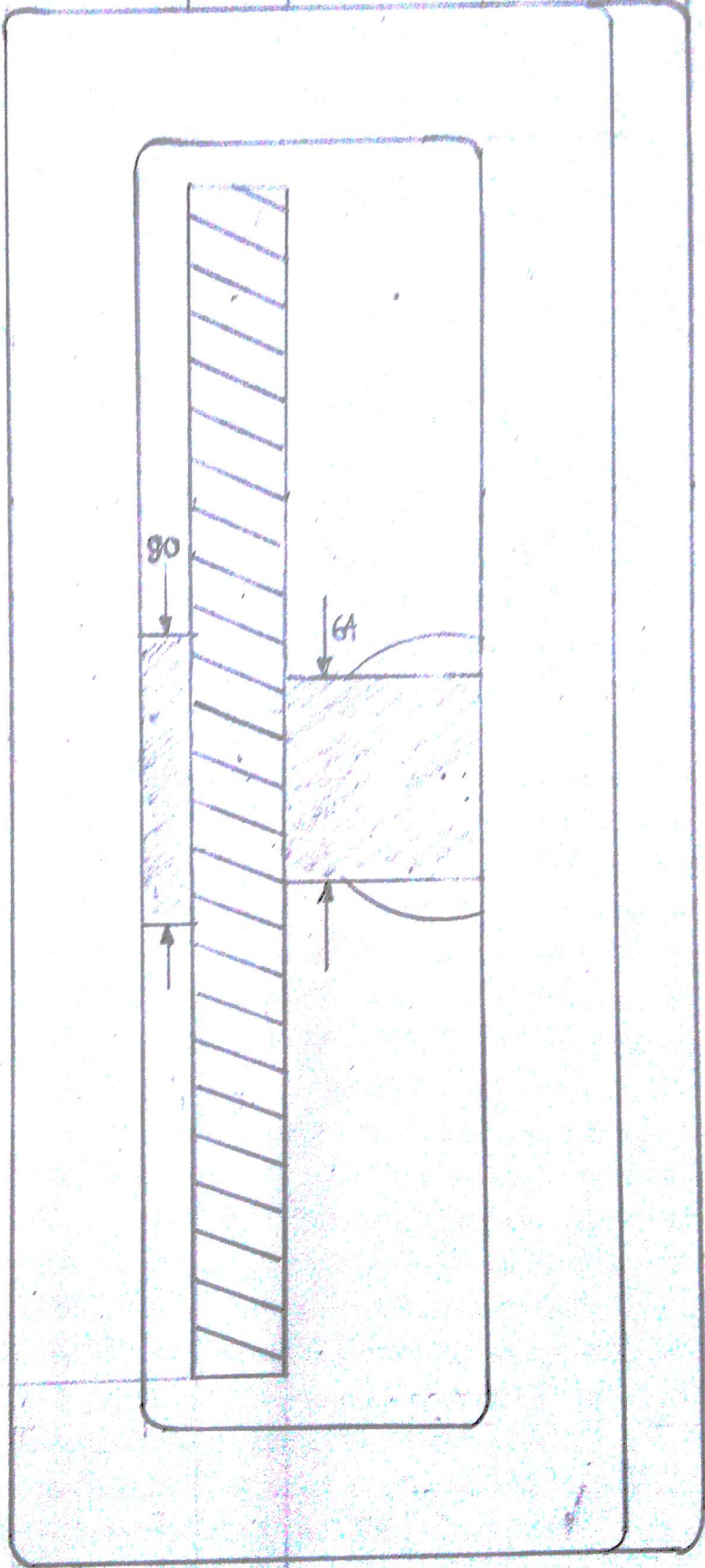
#	ITEM	QTY
1	TAPER ROLLER BEARING NO. 2224B	1
2	TAPER ROLLER BEARING NO. 2224C	1
3	TAPER ROLLER BEARING NO. 2222	1
4	TAPER ROLLER BEARING NO. 2224J	1
5	TAPER ROLLER BEARING NO. 2224J	1
6	TAPER ROLLER BEARING NO. 2224	1
7	STRAIGHT BEVEL GEAR 24T 1125 1° 28'50" 1/2" BORE	1
8	STRAIGHT BEVEL GEAR 24T 1125 1° 28'50" 1/2" BORE	1
9	WHEEL GEAR 24T 1125 1° 28'50" 1/2" BORE	1
10	WHEEL GEAR 24T 1125 1° 28'50" 1/2" BORE	1
11	INPUT SHAFT	1
12	INTERMEDIATE SHAFT	1
13	OUTPUT SHAFT	1
14	GEARBOX CASING	1

I. I. T. KHARAGPUR
 NAME: KSHITIJ GAURAV VERMA
 ROLL NO: 14ME30025
 GEARBOX DESIGN GROUP III J





ELEVATION VIEW

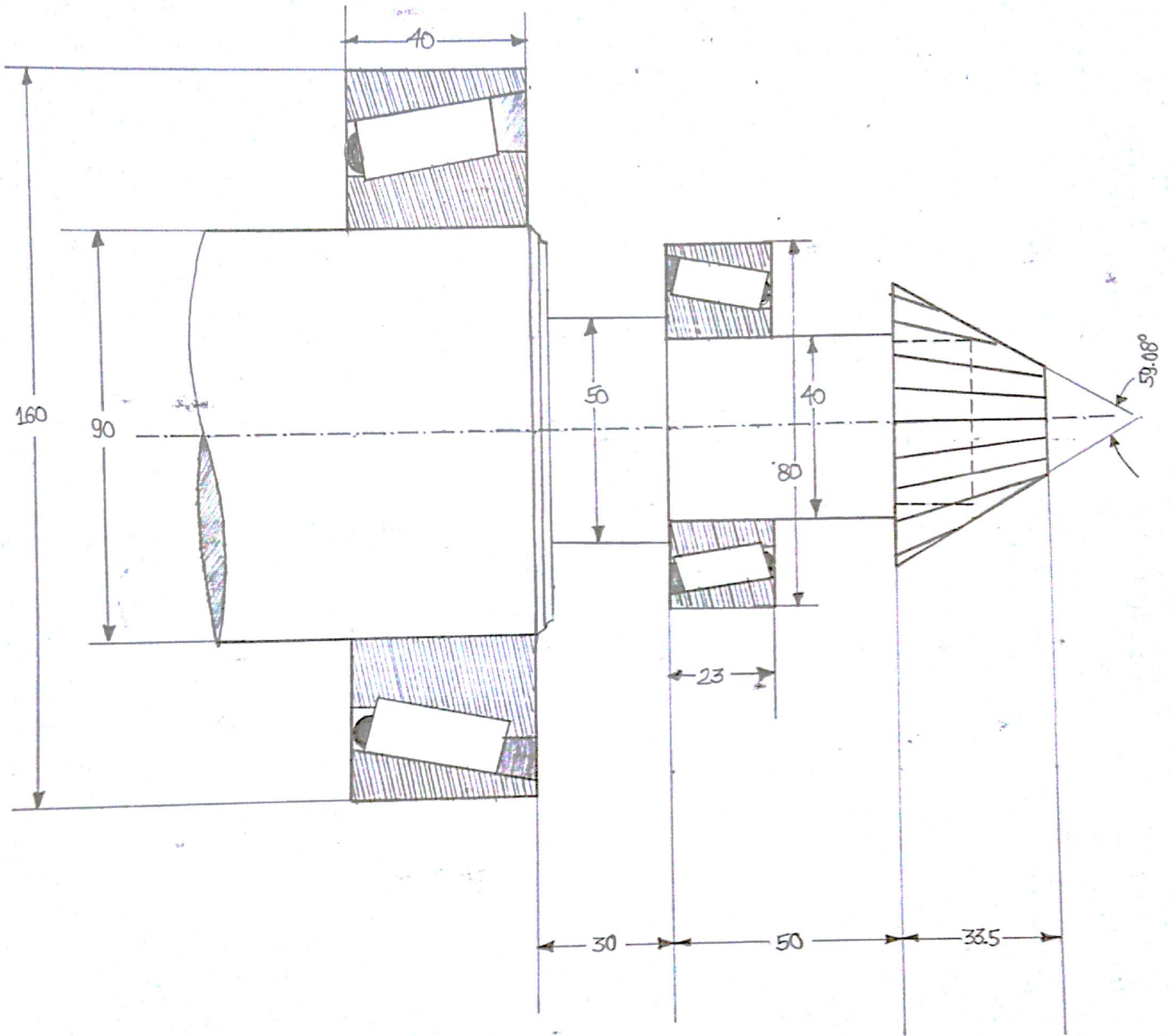


SIDE VIEW

7
8

BILL OF MATERIALS

#	ITEM	QTY.
1.	TAPER ROLLER BEARING NO. 32218	1
2.	TAPER ROLLER BEARING NO. 32224	1
3.	TAPER ROLLER BEARING NO. 32220	1
4.	TAPER ROLLER BEARING NO. 32221	1
5.	TAPER ROLLER BEARING NO. 32211	1
6.	TAPER ROLLER BEARING NO. 32216	1
7.	STRAIGHT BEVEL GEAR $Z=17$ $m=2.5$ $\gamma=29.54^\circ$ $b=33.5$	1
8.	STRAIGHT BEVEL GEAR $Z=30$ $m=2.5$ $\gamma=60.46^\circ$ $b=25.85$	1
9.	HELICAL GEAR $Z=18$ $m_n=3$ $b=39.6$	1
10.	HELICAL GEAR $Z=118$ $m_n=3$ $b=29.16$	1
11.	INPUT SHAFT	1
12.	INTERMEDIATE SHAFT	1
13.	OUTPUT SHAFT	1
14.	GEARBOX CASING	1



INPUT SHAFT
III-J