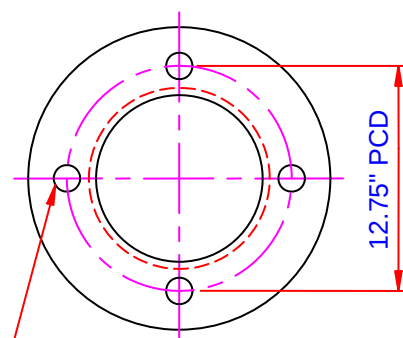
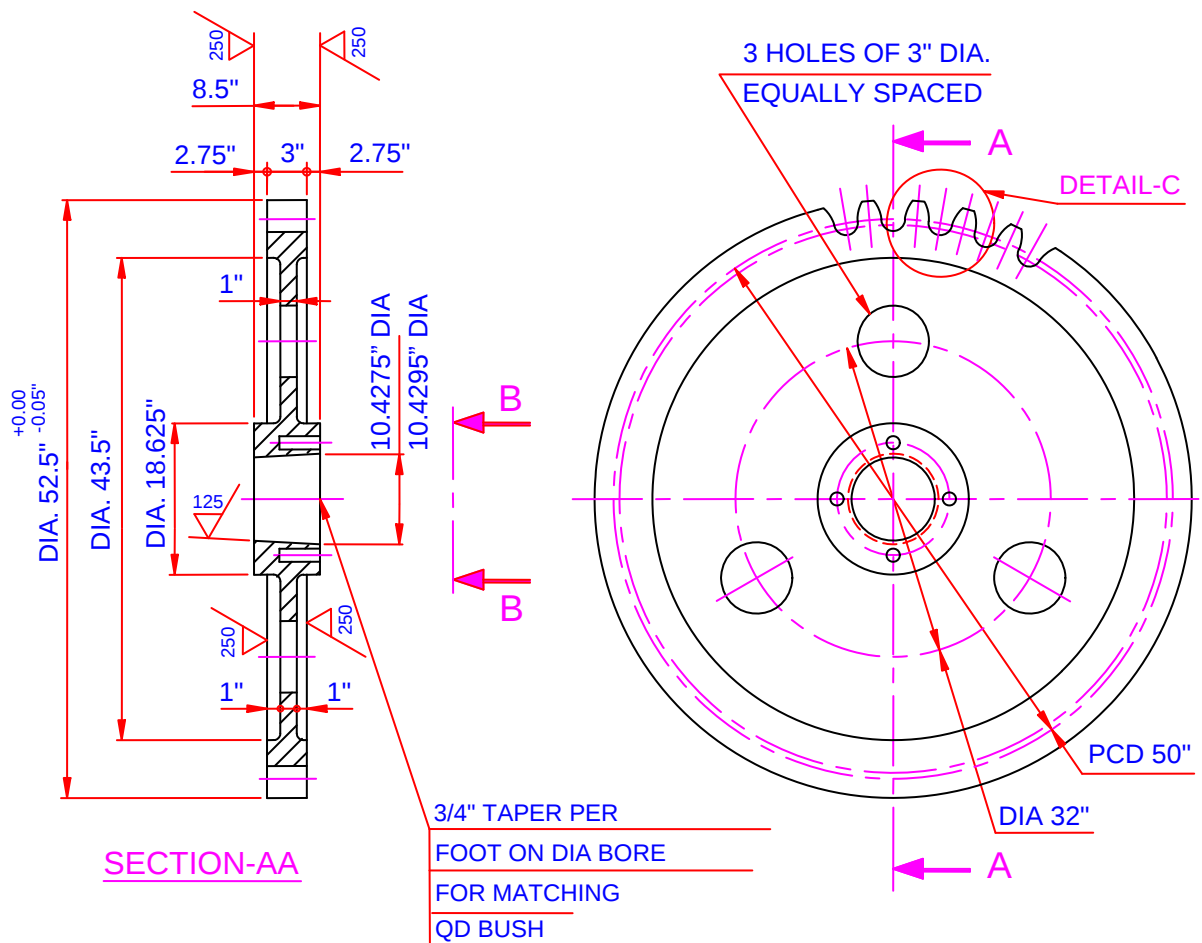


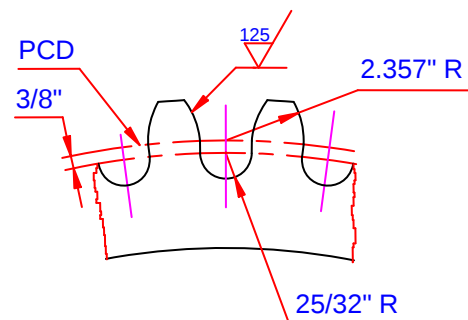
		Bharat Heavy Electricals Ltd Boiler Auxiliaries Plant Ranipet - 632 406		EDC / AIR PREHEATERS TECHNICAL SPECIFICATION Effective Date: 12.07.2011	
Specification No : APSQ – 098			Rev. No : 00		Page No : 01 of 02
01.	Item	PINION – 50 TEETH			
02.	Material code	96 320 350 0000			
03.	Application	Used to drive the Rotor of Regenerative Air Preheaters.			
04.	No. of teeth	50			
05.	Diametral pitch	1.000"			
06.	Circular pitch	3.1416"			
07.	Total tooth depth	2.406"			
08.	Chordal height (hk)	29.21 mm			
09.	Chordal width (sk)	-0.282 -0.376 39.75 mm.			
10.	Width across 5 teeth	-0.282 -0.376 357.71 mm.			
11.	Quality & tolerance	DIN - 3967 - 9C			
12.	Mating gear	Pin Rack Pin dia 1.5"			
13.	Dimensions	Shall be as per drawing in page 02 of 02			
14.	Material	a.Single piece type	Forged steel as per AISI 4150		
		b.Weld web type	Hub : Forged steel as per AISI 1020		
			Web : Forged steel as per AISI 1020		
			Rim : Forged steel as per AISI 4140		
15.	Heat treatment	Teeth shall be flame hardened / induction hardened to 550 to 600 BHN. Hub not to be hardened.			
16.	GENERAL a) Only latest revision shall be referred for all the Standards specified. b) Manufacture of Pinion shall be as per NTPC / BHEL approved Quality Plan SQP : APH :112. a) The pinion shall be packed properly in wooden box to avoid damage during transit.				
17.	INSPECTION a) Inspection by BHEL. b) Certificates as per SQP shall be submitted.				
00	12.07.11	(Sd)VMR	(Sd)SCH	(Sd)KP	FRESH ISSUE
Rev.No	Date	Prepared	Checked	Approved	Record of Revisions.

PINION - 50 TEETH



4 NOS. EQUALLY SPACED.
63/64" DIA. DRILL 4.5" DEEP.
1-1/8" TAP-7UNC CLASS 2B
THREADS PER INCH.
3-3/8" FULL THREADS

VIEW-BB



DETAIL-C

TOLERANCE

ALL TOOTH SURFACE
LIMITS UNLESS OTHERWISE NOTED
FRACTIONAL 1/64". WOBBLING SHALL NOT
EXCEED 1/32".

ALL DIMENSIONS ARE IN INCHES.