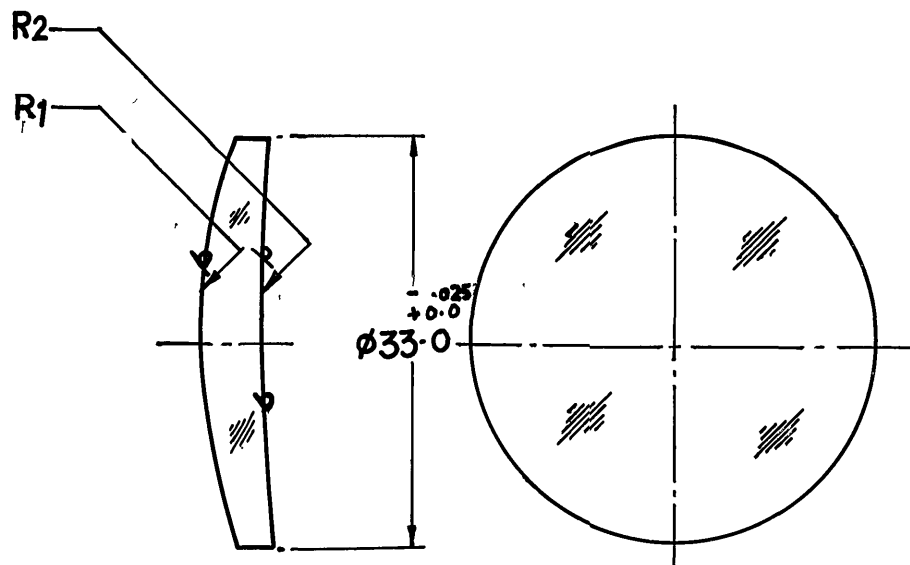


FOR EXPLANATION OF DIMENSIONING Etc., SEE CQA(1) GUIDE No 002-1992
THIRD ANGLE PROJECTION DIMENSIONS ARE IN MILLIMETRES.



LENS NO.	GLASS TYPE	Nd	V	R1	R2	CENTRAL THICKNESS	CLEAR APERTURE	FL
I	EDF 648338	1.64831	33.84	$\pm 0.5\%$ 39.0 VEX	$\pm 0.5\%$ 167.76 CAVE	± 0.048 -0.048 4.2	± 0.039 31.0	77.384

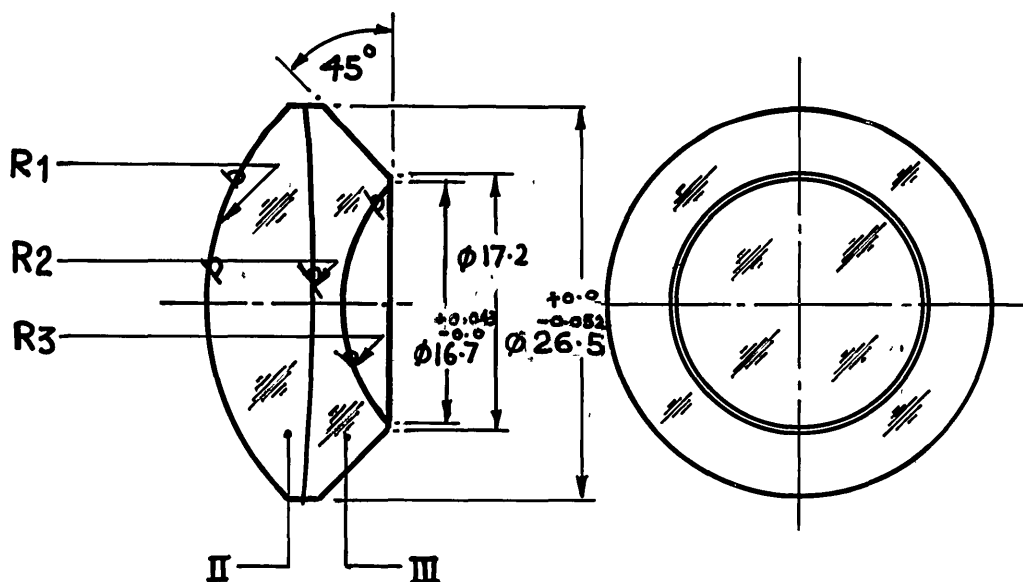
NOTE:- 1. SURFACES MARKED 'p' TO BE OPTICALLY POLISHED.
2. SURFACES MARKED 'b' TO BE GIVEN BROAD BAND ANTIREFLECTION COATING (0.45μ TO 0.85μ) WITH AVERAGE INTEGRATED TRANSMISSION FIGURE AT 98%.

					DRN	<i>Heerpa</i>	APPROVED <i>Bon</i> for DIRECTOR IRDE, Dehra Dun Date: 12.6.89	
					TRCD	<i>BKumar</i>		
					CHKD	<i>JK</i>		
	(a) D.C.5803-I NOM. AMENDED & CAT/PT. No. ADDED <i>Wd</i>					<i>Wd</i>		
	D.C.(1):-5402-I:- DRG. SEALED.				<i>Fruth</i>	<i>Wd</i>	18.8.90	
SYM	AMENDMENTS			CHKD	SIG	DATE		
MATL & SPECN	SEE ABOVE						CAT PT. No	5855-000657 (a)
FINISH	SEE ABOVE						DRG. No.	IRDE 2023/1
TITLE (a) LENS, OPTICAL INSTRUMENT No. 1							SCALE	2:1 SH - OF

D.C.(1):-5402-I.5803-I

FOR EXPLANATION OF DIMENSIONING Etc., SEE CQA(I) GUIDE No. 002-1992
THIRD ANGLE PROJECTION

DIMENSIONS ARE IN MILLIMETRES.



LENS No.	GLASS TYPE	Nd	V	R1	R2	R3	CENTRAL THICKNESS	CLEAR APERTURE	FL	EFL
II	LAC 697562	1.69734	56.19	18.91% VEX	201.0% VEX		7.0	24.5	25.114	
III	DF 626357	1.62588	35.70		201.0% CAVE	11.84% CAVE	2.0	24.5	-17.8	-191.338

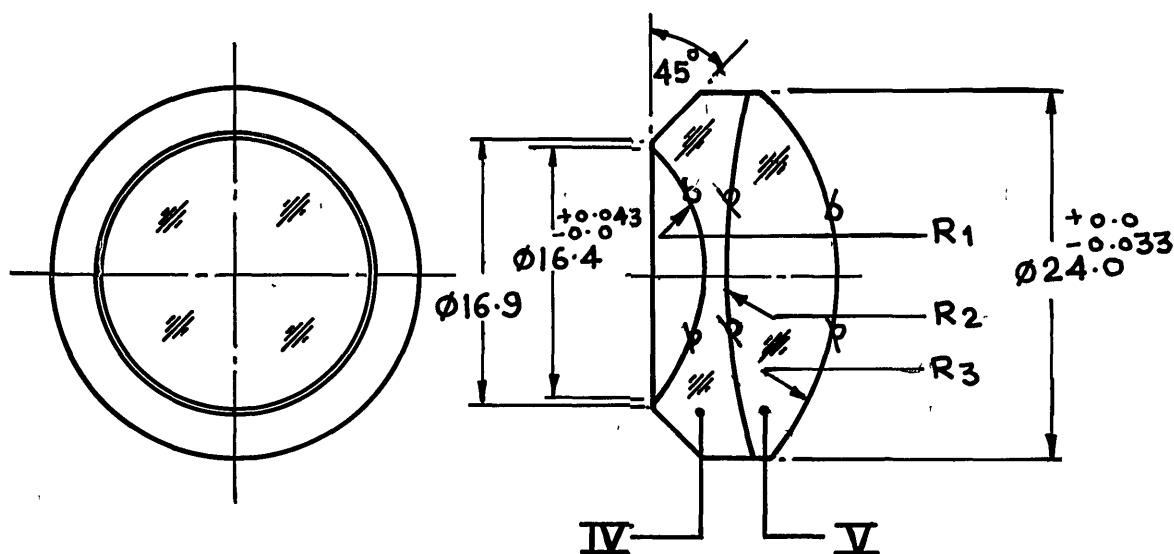
NOTE :- 1. SURFACES MARKED 'p' TO BE OPTICALLY POLISHED.

2. SURFACES MARKED 'b' TO BE GIVEN BROAD BAND ANTIREFLECTION COATING (FROM 0.45μ TO 0.85μ) WITH AVERAGE INTEGRATED TRANSMISSION FIGURE AT 98%.

				DRN.	<i>thar</i>	APPROVED for DIRECTOR IRDE, Dehra Dun Date: 12.6.89	
				TRCD	BKumar		
				CHKD	<i>th</i>		
(a) D.C. 5803-I. NOM. AMENDED & CAT/PT. No. ADDED					2.12 93		
D.C.(I):-5402-I. DRG. SEALED				<i>Fruth</i>	18.8.90		
SYM	AMENDMENTS			CHKD	SIG	DATE	
MATLA SPECN	SEE ABOVE					CAT PT. No.	5855-000656 (a)
FINISH	SEE ABOVE					DRG. No.	IRDE 2023/2
TITLE (a) LENS, OPTICAL INSTRUMENT No II & III						SCALE	2:1 SH - OF

D.C.(I):-5402-I.5803-I.

FOR EXPLANATION OF DIMENSIONING Etc., SEE CQA(1) GUIDE No 002-1992
THIRD ANGLE PROJECTION DIMENSIONS ARE IN MILLIMETRES.



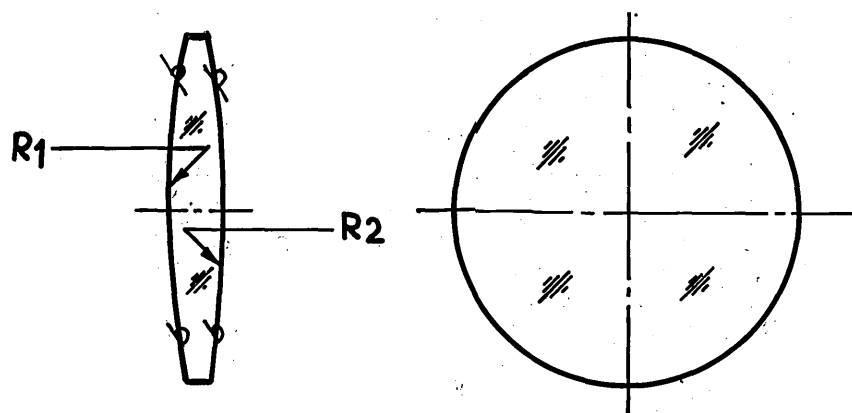
LENS No.	GLASS TYPE	Nd	V	R ₁	R ₂	R ₃	CENTRAL THICKNESS	CLEAR APERTURE	FL	EFL
IV	EDF 699301	1.69895	30.07	$\pm 0.5\%$ 11.68 CAVE	$\pm 0.5\%$ 45.76 CAVE		± 0.04 1.6	± 0.043 R ₁ 16.4	-13.16	-213.21
V	LAC 697562	1.69734	56.19		$\pm 0.5\%$ 45.76 VEX	$\pm 0.5\%$ 16.78 VEX	± 0.036 7.7	± 0.033 R ₂ 22.0 R ₃ 22.0	18.54	

NOTE:- 1. SURFACES MARKED ρ TO BE OPTICALLY POLISHED.
2. SURFACES MARKED 'b' TO BE GIVEN BROAD BAND ANTIREFLECTION COATING (FROM 0.45 μ TO 0.85 μ) WITH AVERAGE INTEGRATED TRANSMISSION FIGURE AT 98%

					DRN	BKumar	APPROVED for DIRECTOR IRDE, Dehra Dun Date: 12.6.89	
					TRCD	BKumar		
					CHKD			
					CHKD			
	(a) D.C. 5803-I. NOM. AMENDED & CAT/PT. No. ADDED					2 12/93		
	D.C. (11)-5402-I:- DRG. SEALED.				forth	18.8.90		
SYM	AMENDMENTS			CHKD	SIG	DATE		
MATL & SPECN	SEE ABOVE						CAT PT. No	5855-000659 (a)
FINISH	SEE ABOVE						DRG. No.	IRDE 2023/3
TITLE (a) LENS, OPTICAL INSTRUMENT No IV & V							SCALE	2:1 SH - OF

D.C.(11)-5402-I, 5803-I.

FOR EXPLANATION OF DIMENSIONING Etc, SEE CQA(1) GUIDE No 002-1992
THIRD ANGLE PROJECTION DIMENSIONS ARE IN MILLIMETRES.



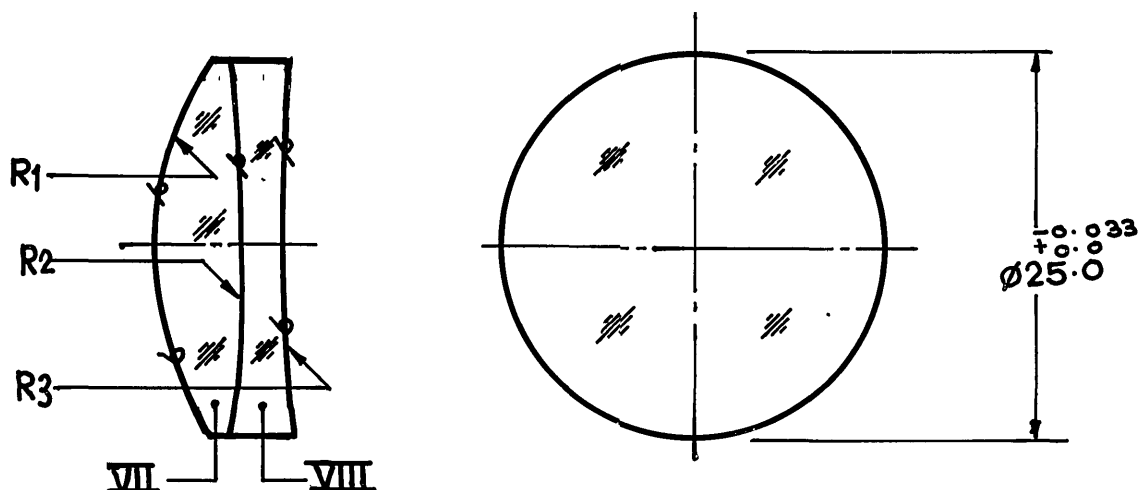
LENS NO.	GLASS TYPE	Nd	V	R ₁	R ₂	CENTRAL THICKNESS	CLEAR APERTURE	DIA	FL
VI	LAC 697562	1.69734	56.19	$\pm 0.5\%$ 53.065 VEX	$\pm 0.5\%$ 115.567 VEX	± 0.048 -0.048 3.5	± 0.052 -0.0 22.0	± 0.023 ± 0.0 24.0	52.598

NOTE:- 1. SURFACES MARKED 'p' TO BE OPTICALLY POLISHED.
2. SURFACES MARKED 'b' TO BE GIVEN BROAD BAND ANTIREFLECTION COATING (FROM 0.45 μ TO 0.85 μ) WITH AVERAGE INTEGRATED TRANSMISSION FIGURE AT 98%.

					DRN	<i>[Signature]</i>	APPROVED <i>[Signature]</i> for DIRECTOR IRDE, Dehra Dun
					TRCD	<i>BKumar</i>	
					CHKD	<i>[Signature]</i>	
	(a) D.C. 5803-I, NOM. AMENDED & CAT/PT. No. ADDED	<i>[Signature]</i>	<i>[Signature]</i>	212 93	CHKD	<i>[Signature]</i>	Date 12.6.89
	D.C. (1): -5402-I :- ORG. PROV. SEALED.	<i>[Signature]</i>	<i>[Signature]</i>	18.8.90			
SYM	AMENDMENTS	CHKD	SIG	DATE			
MATL & SPECN	SEE ABOVE				CAT PT. No.	5855-000658 (a)	
FINISH	SEE ABOVE				DRG. No.	IRDE 2023/4	
TITLE (a) LENS, OPTICAL INSTRUMENT No VI					SCALE	2:1	SH - OF

D. C. (1): -5402-I. 5803-I.

FOR EXPLANATION OF DIMENSIONING Etc., SEE I.C.Q.A(I) GUIDE No.002-1992
THIRD ANGLE PROJECTION DIMENSIONS ARE IN MILLIMETRES.



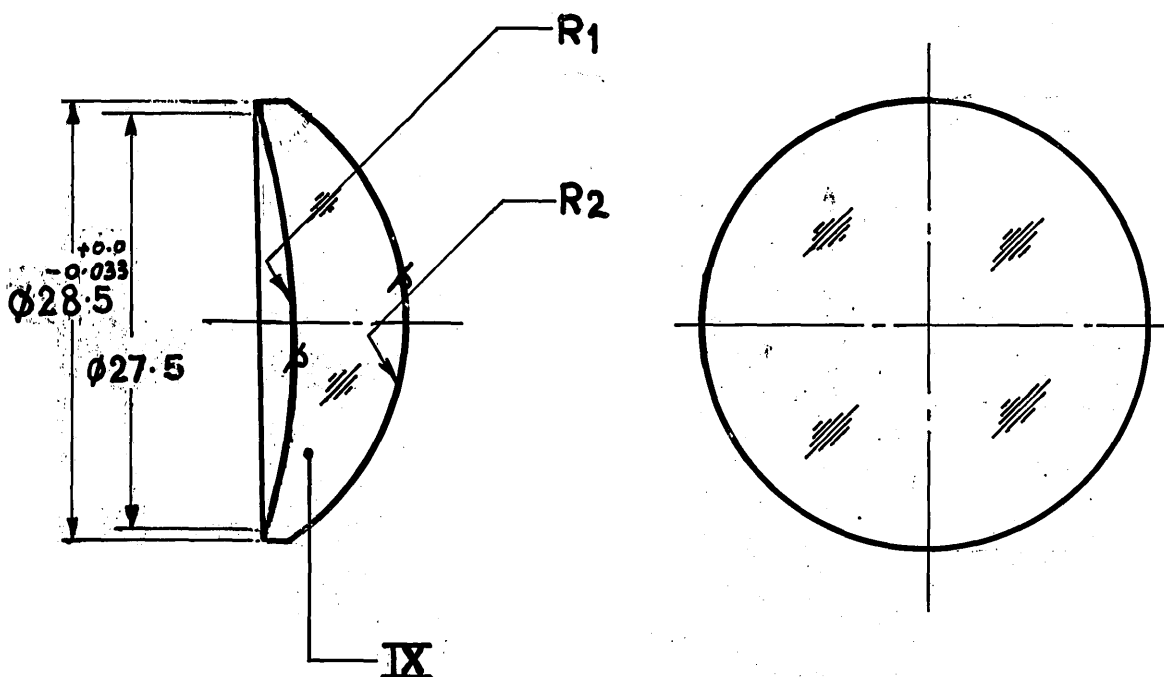
LENS No	GLASS TYPE	Nd	V	R ₁	R ₂	R ₃	CENTRAL THICKNESS	CLEAR APERTURE	FL	EFL
VII	LAC 697562	1.69734	56.19	$\pm 0.5\%$ 22.455 VEX	$\pm 0.5\%$ 103.16 VEX		± 0.048 -0.048 6.0	± 0.033 -0.033 23.0	26.974	37.29
VIII	DEDF 717295	1.71736	29.51		$\pm 0.5\%$ 103.16 CAVE	$\pm 0.5\%$ 148.97 CAVE	± 0.04 -0.04 2.56	± 0.033 -0.033 23.0	-84.61	

NOTE:-

1. SURFACES MARKED 'p' TO BE OPTICALLY POLISHED.
2. SURFACES MARKED 'b' TO BE GIVEN BROAD BAND ANTIRE FLECTION COATING (FROM 0.45 μ TO 0.85 μ) WITH AVERAGE INTEGRATED TRASMISSION FIGURE AT 98%.

				DRN	<i>BKumar</i>	APPROVED <i>[Signature]</i> TO DIRECTOR IRDE, Dehra Dun Date: 12.6.89	
				TRCD	<i>BKumar</i>		
				CHKD	<i>[Signature]</i>		
				CHKD	<i>[Signature]</i>		
(a) D.C.5803-I. NOM. AMENDED & CAT/PT.No. ADDED				<i>[Signature]</i>	<i>[Signature]</i>	212 93	
D.C.(I):-5402-I, DRG. SEALED.				<i>[Signature]</i>	<i>[Signature]</i>	18.8.90	
SYM	AMENDMENTS			CHKD	SG	DATE	
MAT'L & SPECN.	SEE ABOVE					CAT PT.No	5855-000654 (a)
FINISH	SEE ABOVE					DRG No.	IRDE 2023/5
TITLE (a) LENS, OPTICAL INSTRUMENT No VII & VIII						SCALE	2:1 SH OF

FOR EXPLANATION OF DIMENSIONING Etc, SEE TQA(1) GUIDE No.002-1992
THIRD ANGLE PROJECTION DIMENSIONS ARE IN MILLIMETRES.



LENS No.	GLASS TYPE	Nd	V	R1	R2	CENTRAL THICKNESS	CLEAR APERTURE	FL
IX	LAK N7 652585	1.6516	58.52	$\pm 0.5\%$ 48.5 CAVE	$\pm 0.5\%$ 17.8 VEX	± 0.036 -0.036 7.5	± 0.052 -0.052 27.0	39.4

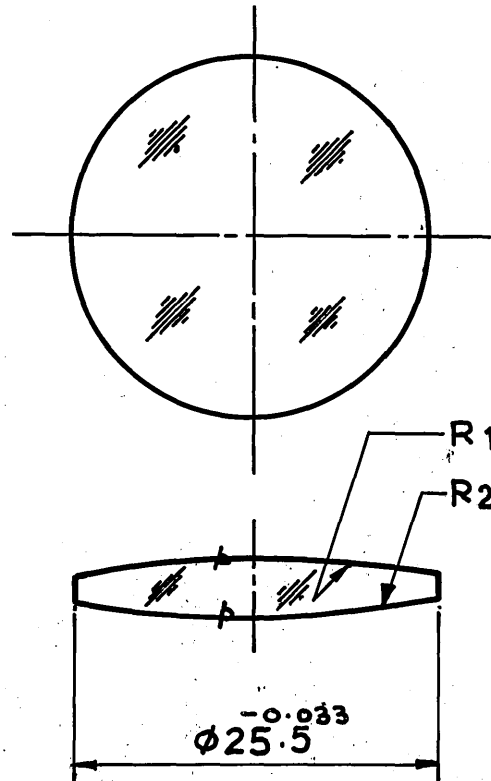
NOTE :-

SURFACES MARKED 'P' TO BE OPTICALLY POLISHED AND TO BE GIVEN ANTIREFLECTION COATING FOR 0.55μ (MIN TRANSMISSION TO BE 97%.)

				DRN	BKumoy	APPROVED for DIRECTOR IRDE, Dehra Dun Date: 12.6.89
				TRCD	BKumoy	
(b) D.C.:- 6241-I. NOM. AMENDED.				CHKD	24/12/87	
(a) D.C.5803-I.NOM. AMENDED & CAT/PT.No. ADDED				CHKD	21/12/93	
D.C.(1):-5402-I:- DRG. SEALED.				18.8.90		
SYM	AMENDMENTS			CHKD	SIG	DATE
MATL & SPECN	SEE ABOVE			CAT PT.No 5855-000653 (a)		
FINISH	SEE ABOVE			DRG No. IRDE 2023/6		
TITLE (a) LENS, OPTICAL INSTRUMENT No IX (b)				SCALE	2:1	SH - OF

D.C.(1):-5402-I.5803-I,6241-I

FOR EXPLANATION OF DIMENSIONING Etc, SEE COACH GUIDE No.002-1992
THIRD ANGLE PROJECTION DIMENSIONS ARE IN MILLIMETRES.



LENS No	GLASS TYPE	Nd	V	R1	R2	CENTRAL THICKNESS	CLEAR APERTURE	FL
X	LAK N7 652585	1.6516	58.52	$\pm 0.5\%$ 60.0 VEX	$\pm 0.5\%$ 70.0 VEX	$\begin{matrix} +0.048 \\ -0.048 \end{matrix}$ 4.2	$\begin{matrix} +0.052 \\ -0.052 \end{matrix}$ 24.0	50.2

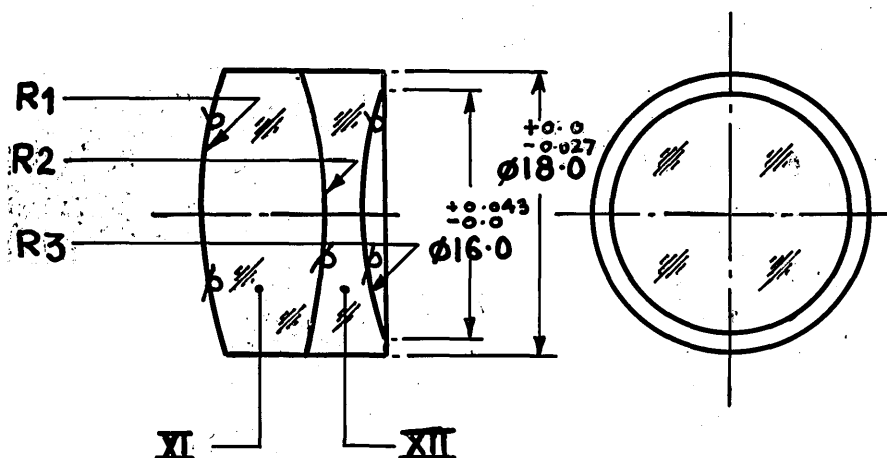
NOTE:-

SURFACES MARKED P TO BE OPTICALLY POLISHED AND TO BE GIVEN ANTIREFLECTION COATING FOR 0.55μ (MIN TRANSMISSION 97%.)

					DRN	<i>Raj</i>	APPROVED <i>[Signature]</i> for DIRECTOR IRDE, Dehra Dun		
					TRCD	<i>BKuno</i>			
	(b) D.C.:-G241-I. NOM. AMENDED:				CHKD	<i>g/h</i>			
	(a) D.C.5803-I.NOM.AMENDED & CAT/PT.No.ADDED					<i>2 12/93</i>	CHKD	<i>[Signature]</i>	Date: 12.6.89
	D.C.(17):-5402-I:- DRG..SEALED.					<i>18.8.90</i>			
SYM	AMENDMENTS	CHKD	SIG	DATE					
MATL & SPECN	SEE ABOVE				CAT PT.No.	5855-000655 (a)			
FINISH	SEE ABOVE				DRG. No.	IRDE 2023/7			
TITLE(a) LENS, OPTICAL INSTRUMENT No X (b)					SCALE	2:1		SH. OF	

D.C.(17):-5402-I.5803-I, G241-I.

FOR EXPLANATION OF DIMENSIONING Etc, SEE CQA(I) GUIDE No.002-1992
THIRD ANGLE PROJECTION DIMENSIONS ARE IN MILLIMETRES.



LENS NO.	GLASS TYPE	Nd	V	R1	R2	R3	CENTRAL THICKNESS	CLEAR APERTURE	FL	EFL
XI	DBC 620603	1.62041	60.33	$\pm 0.5\%$ 26.0 VEX	$\pm 0.5\%$ 41.96 VEX		± 0.026 8.0 ± 0.036	± 0.043 16.0 ± 0.0	27.1	-262.63
XII	EDF 699301	1.69895	30.07		$\pm 0.5\%$ 41.96 CAVE	$\pm 0.5\%$ 22.8 CAVE	± 0.048 2.56 ± 0.048	± 0.043 16.0 ± 0.0	-20.8	

NOTE :-

1. SURFACES MARKED 'p' TO BE OPTICALLY POLISHED.
2. SURFACES MARKED 'b' TO BE GIVEN ANTIREFLECTION COATING FOR 0.55μ (MIN, TRANSMISSION TO BE 97%)
3. LENSES TO BE CEMENTED TOGETHER AS SHOWN.

				DRN	<i>Reason</i>	APPROVED <i>[Signature]</i> for DIRECTOR IRDE, Dehra Dun
				TRCD	<i>BKumar</i>	
				CHKD	<i>[Signature]</i>	
(a) D.C.5803-I.NOM.AMENDED & CAT/PT.No.ADDED				<i>[Signature]</i>	<i>[Signature]</i>	212 93
D.C.(I):-5402-I:- DRG-SEALED.				<i>[Signature]</i>	<i>[Signature]</i>	18.8.90
SYM	AMENDMENTS			CHKD	SIG	DATE
MATL & SPECN	SEE ABOVE					CAT PT.No
FINISH	SEE ABOVE					5855-000652 (a)
TITLE (a) LENS, OPTICAL INSTRUMENT No XI & XII						DRG No
						IRDE 2023/8
SCALE						2:1
						SH - OF

D.C.(I):-5402-I.5803-I