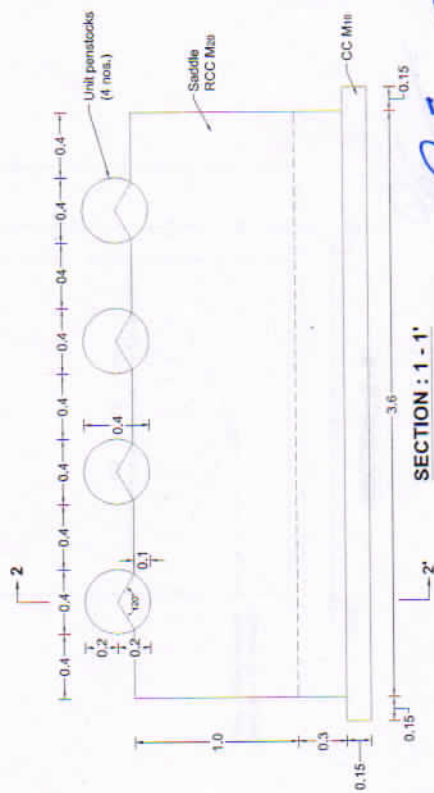
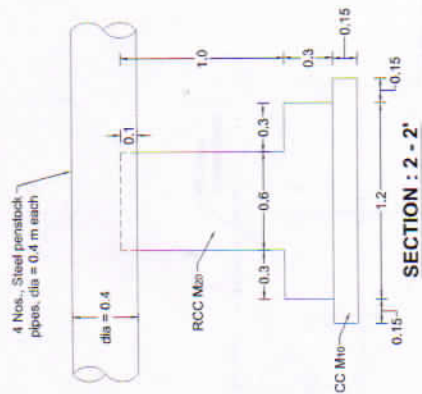




PLAN (Lean Concrete not shown)
Showing Saddle Block to Support Four Penstocks



SECTION : 2 - 2'

FOR DPR PURPOSE ONLY

TANKUL SHP $4 \times 3.0 \text{ MW} = 12.0 \text{ MW}$

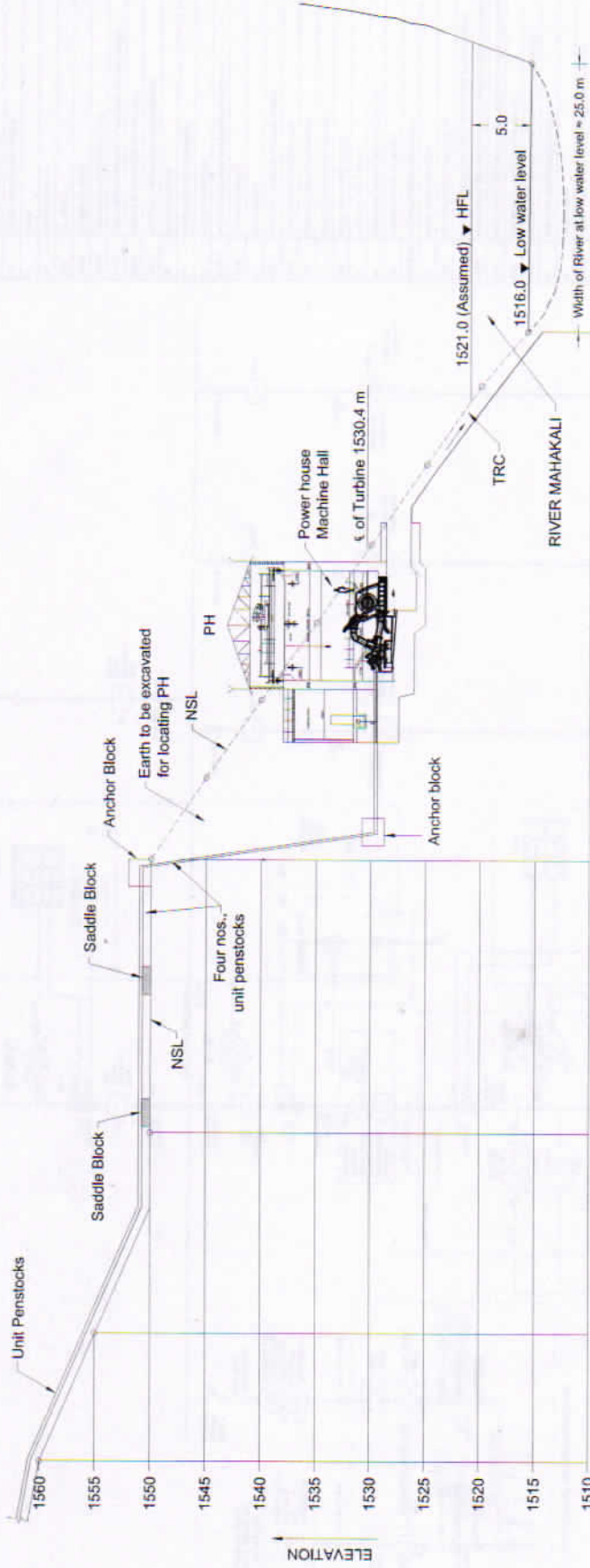
UNIT PENSTOCKS, SADDLE BLOCK

Sheet Title: Typical Arrangements

Org. No.: 21

अधिकांश अध्येता (जानपद-लज्जित)
यूजेवीएन लिमिटेड
धारचूला, पिथौरागढ़

Doc. No.: 22



TANKUL SHP 4 x 3.0 MW = 12.0 MW

Name of Component:

PENSTOCK & POWER HOUSE - LOCATING

Sheet Title: Cross-section marked with NSL

Drig. No.: 25

NOTE : All dimensions and levels are in m.

अधिकाशी अभियन्ता (आनपद-लज्जित)

यूजेवीएन लिमिटेड

धारचूला, पिथौरागढ़

Signature

BILL OF QUANTITY FOR SWITCHYARD (TENTATIVE)		
DESCRIPTION	SPECIFICATIONS	QUANTITY
ISOLATORS	33 KV, 400 A, W/O ES	4 NOS.
ISOLATORS	33 KV, 400 A, WITH ES	2 NOS.
ISOLATORS	33 KV, 200 A, W/O ES	1 NO.
HORN GAP FUSE	33 KV, 200 A	1 NO.
VCB	33 KV, 1250 A	6 NOS.
CT	400/2001-1 A	18 NOS.
PT	60/1-1-1 A	3 NOS.
LA	33 KV/SORT 110V/SORT 13	18 NOS.
STRING INSULATORS	30 KV, 10 KA	18 NOS.
PANTHER ACSR CONDUCTOR	33 KV	12 SETS
3 M WIDE, 2 M HEIGHT GATE	GI	M
2 M HEIGHT FENCE	GI, MS ANGLE	M
SUPPORT STRUCTURE STEEL	GI	TON
GRAVEL	50 TO 75 MM CRUSHED	CUM

ALL DIMENSIONS ARE IN MILLIMETRES

NOTES:

1. THE GRAVEL SPREAD IN SWITCHYARD, SHALL BE 75 TO 100 mm THK CRUSHED TYPE.
2. FAULT LEVEL FOR 33 KV IS ASSUMED AS 1000 MVA.
3. STRUCTURE USED FOR SWITCHYARD, SHALL BE HOT RENTED WITH 100% SAFETY FACTOR.
4. THE BUS BAR SHALL BE PAINTED AS PER RULES.
5. SHIELD WIRE SHALL BE PROVIDED AS PER RULES.
6. EARTH PITS FOR LA EARTHING SHALL BE PROVIDED AS PER LE RULE.
7. DISTANCE BETWEEN THE EARTH PITS SHALL BE MORE THAN TWO TIMES TO THE HEIGHT OF THE EARTH ELECTRODE.
8. EARTHING OF LA, OTHER SWITCHYARD EQUIPMENTS, AND STRUCTURES SHALL BE DONE BY 2 NOS. 50 X 6 MM. G.I. STRIP.
9. EVERY FENCING POST AND MESH BETWEEN POST SHALL BE EARTHED BY 8 SWG. G.I. WIRE.
10. POSITION OF THE EARTHING GRID CONDUCTOR SHALL BE SUITABLY DECIDED AVOIDING THE FOUNDATION ETC.
11. CABLE TRENCH OF SUITABLE SIZE SHALL BE PROVIDED IN THE SWITCHYARD FOR POWERCONTROL CABLES. TRENCHES SHALL BE PROVIDED WITH COVERS.

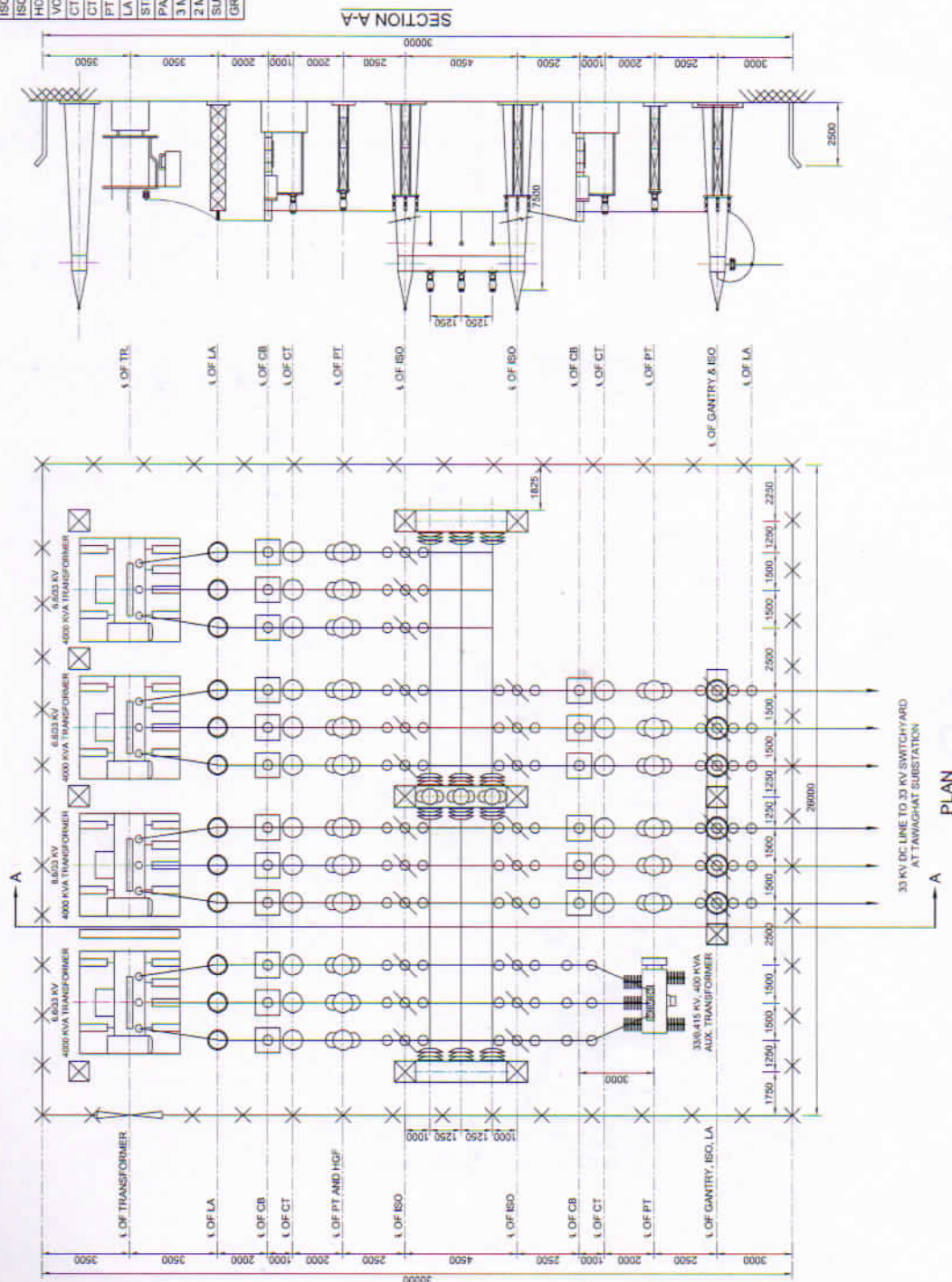
FOR DPR PURPOSE ONLY

TANKUL SHP 4 x 3.0 MW = 12.0 MW

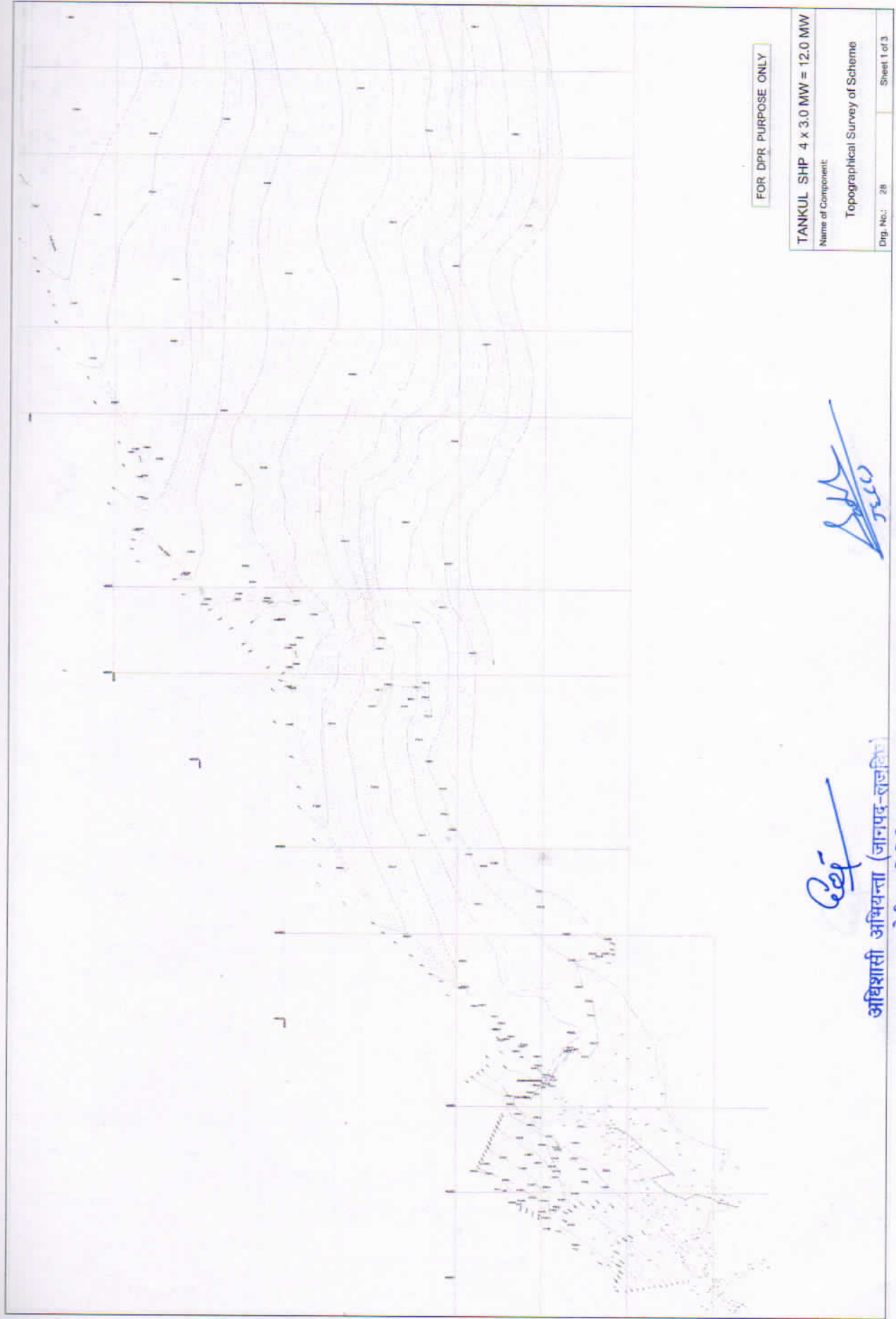
Name of Component

LAYOUT OF 33 KV SWITCHYARD

Drig. No.: 27



अधिकासी अभियन्ता (जानपद-तलनि)
यूजेवीएन लिमिटेड
धारचूला, पिथौरागढ़



FOR DPR PURPOSE ONLY

TANKUL SHP 4 x 3.0 MW = 12.0 MW

Name of Component:

Topographical Survey of Scheme

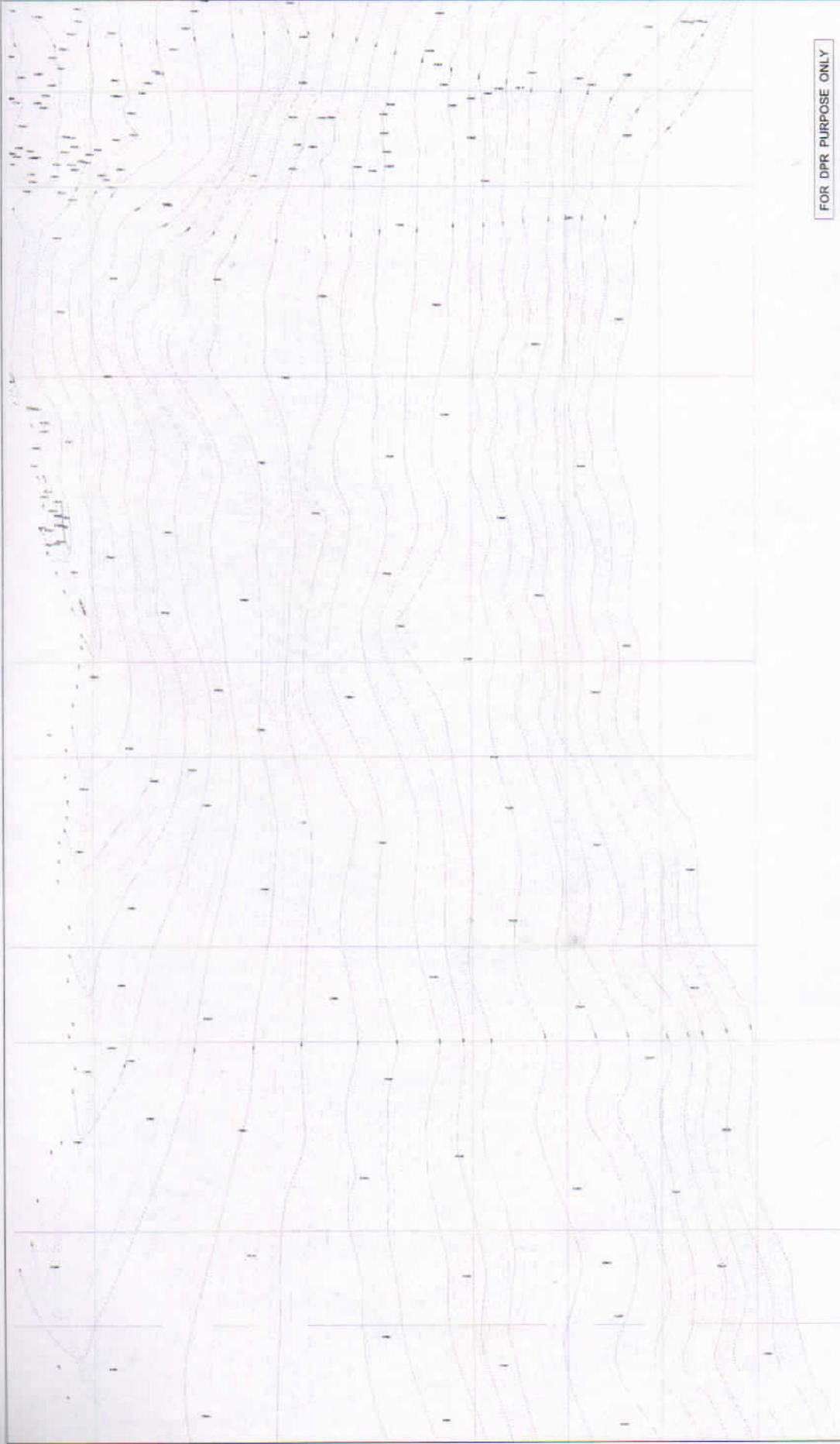
Drg. No.: 28 Sheet 1 of 3

Signature

अधिकासी अभियन्ता (जनपद-सालासि)

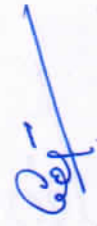
यूजेवीएन लिमिटेड

धारवूला, पिथौरागढ़



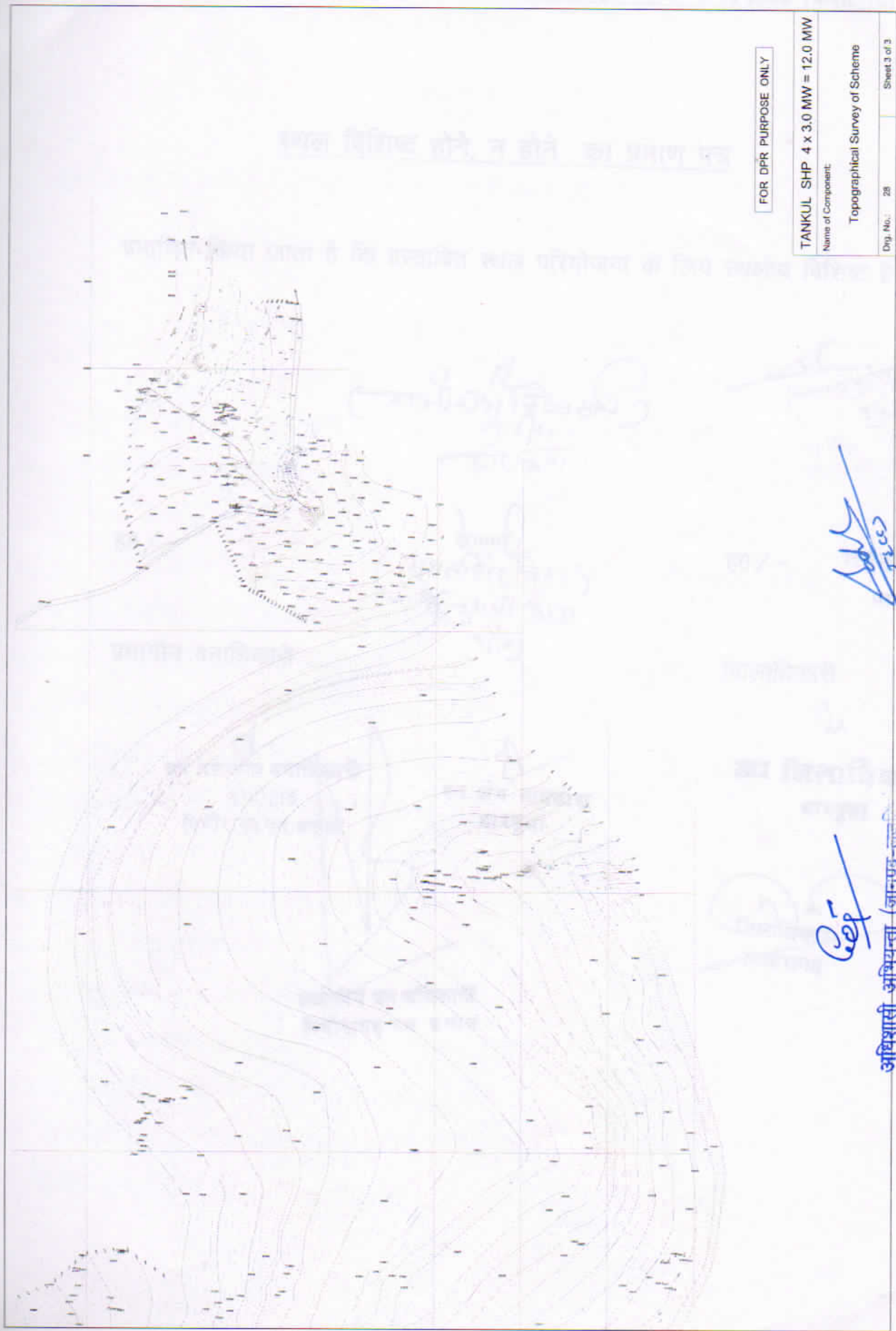
FOR DPR PURPOSE ONLY

TANKUL SHP 4 x 3.0 MW = 12.0 MW	
Name of Component:	
Topographical Survey of Scheme	
Dwg. No.: 28	Sheet 2 of 3



अधिकासी अभियन्ता (जगपद राज)
यूजेवीएन लिमिटेड
धारदुला, पिथौरागढ़





FOR DPR PURPOSE ONLY

TANKUL SHP 4 x 3.0 MW = 12.0 MW
Name of Component:
Topographical Survey of Scheme
Dwg. No.: 28
Sheet 3 of 3

Def

अध्यासी अभियन्ता (जानमर-लालि)
यूजेवीएन लिमिटेड
धारचुला, पार्थारागढ़

10/10/2020