

मक डिस्पोजल प्लान

तॉकुल 4X3 मेगावाट लघु जल विद्युत परियोजना से उत्सर्जित
मलवा निस्तारण हेतु प्रस्ताव (जिला पिथौरागढ़)


वन क्षेत्राधिकारी
धारचूल


अधिरासी अभियन्ता
यूजेवीएन लिमिटेड
मुनस्यारी (पिथौरागढ़)

Name of Project : Tankul (4x3 MW) Small Hydro Project, Dharchula, District - Pithoragarh

Quantity of material to be excavated

S.No.	Description of work	Quantity	Unit
1	Material excavated from road to weir site	12250	Cum
2	Material excavated from Diversion weir and intake structure	3193.9	Cum
3	Material excavated from Power duct & Vortex Tube	1186.71	Cum
4	Material excavated from Desilting tank & Sedimentation Chamber	30819.08	Cum
5	Material excavated from Power Channel and tunnel	44187.7	Cum
6	Material excavated from Surge Tank	1743.5	Cum
7	Material excavated from Penstock	6608.49	Cum
8	Material excavated from Switchyard, Power House and TRC	38820.25	Cum
9	Material excavated from Road to Power House	12250	Cum
	Total quantity of material to be excavated (A)	151059.63	

बनारसीब नल अधिकारी
पिथौरागढ़ नल व नाल

वन क्षेत्राधिकारी
धारचुला

अधिशामी अभियन्ता
यूजेवीएन लिमिटेड
मुनस्यारी (पिथौरागढ़)

Name of Project :- Tankul (4X3 MW) Small Hydro Project, Dharchula, District Pithoragarh

Disposal and use of excavated material

S.N.	Description of work	Quantity	Unit
1	Road Protection work of wier site (100% quantity of excavation will be used in walls & soling)	12250	cum
2	Road Protection work of wier and Intake structure		
i	H.P. stone filling	606.7	Cum
ii	C.C. M15 (80% Quantity will be used from excavated material)	435.46	Cum
iii	C.C. M-20 (80% Quantity will be used from excavated material)	48.26	Cum
iv	R.C.C. M-25 (80% Quantity will be used from excavated material)	1658.69	Cum
v	R.R. Stone massonary 1:6	315	Cum
vi	R.R. dry Stone massonary	168	Cum
vii	Boulders in wrie crates	256	Cum
viii	River Protection works	5000	Cum
3	Power Duct and Vortex tube chamber		
i	H.P. stone filling	55.13	Cum
ii	C.C. M15 (80% Quantity will be used from excavated material)	82.27	Cum
iii	C.C. M-20 (80% Quantity will be used from excavated material)	0.8	Cum
iv	R.C.C. M-25 (80% Quantity will be used from excavated material)	121.49	Cum
v	R.R. Stone massonary 1:6	114.98	Cum
vi	R.R. dry Stone massonary	92.93	Cum
vii	Boulders in wrie crates	30	Cum
4	Desiting tank & Sedimentation Chamber		
i	H.P. stone filling	552.3	Cum
ii	C.C. M15 (80% Quantity will be used from excavated material)	801.22	Cum
iii	R.C.C. M-25 (80% Quantity will be used from excavated material)	1906.18	Cum
iv	R.R. Stone massonary 1:5	554.4	Cum
v	R.R. dry Stone massonary	433.13	Cum
vi	Boulders in wrie crates	330	Cum
vii	River Protection works	15000	Cum
viii	Filling works	10000	Cum
5	Power Channel and tunnel		
i	C.C. M15 (80% Quantity will be used from excavated material)	973.04	Cum
ii	C.C. M-20 (80% Quantity will be used from excavated material)	8	Cum
iii	R.C.C. M-25 (80% Quantity will be used from excavated material)	1296.98	Cum
iv	R.R. Stone massonary 1:6	1047.38	Cum
v	R.R. dry Stone massonary	771.75	Cum
vi	Boulders in wrie crates	240	Cum
vii	River Protection works	20000	Cum
viii	filling works along Power channel	20000	Cum
6	Surge tank		
i	H.P. stone filling	90	Cum
ii	C.C. M15 (80% Quantity will be used from excavated material)	35.42	Cum
iii	C.C. M-20 (80% Quantity will be used from excavated material)	8	Cum
iv	R.C.C. M-25 (80% Quantity will be used from excavated material)	145.3	Cum
v	R.R. Stone massonary 1:6	146.48	Cum
vi	R.R. dry Stone massonary	113.4	Cum

वन क्षेत्र अधिकारी
पिथौरागढ़

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पिथौरागढ़

3 विशासी अभियन्ता
यूजेवीएन लिमिटेड
मुनस्यारी (पिथौरागढ़)

vii	Boulders in wrie crates	48	Cum
viii	filling works & other Protection works	1000	Cum
7	Penstock		
i	H.P. stone filling	273.75	Cum
ii	C.C. M15 (80% Quantity will be used from excavated material)	436.09	Cum
iii	R.C.C. M-25 (80% Quantity will be used from excavated material)	1227.94	Cum
iv	R.R. Stone massonary 1:6	193.73	Cum
v	R.R. dry Stone massonary	144.11	Cum
vi	Boulders in wrie crates	150	Cum
vii	Misc. Protection works	4000	Cum
8	Power House, Switchyard and TRC		
i	H.P. stone filling	1950	Cum
ii	C.C. M15 (80% Quantity will be used from excavated material)	733.17	Cum
iii	C.C. M-20 (80% Quantity will be used from excavated material)	20	Cum
iv	R.C.C. M-25 (80% Quantity will be used from excavated material)	1771.27	Cum
v	R.C.C. M-30 (80% Quantity will be used from excavated material)	20	Cum
vi	R.R. Stone massonary 1:6	507.94	Cum
vii	R.R. dry Stone massonary	375.64	Cum
viii	R.C.R 1:4	75	Cum
ix	River Protection works	28000	Cum
9	Road Protection work of Power House site	12250	Cum
	Total (B)	148865.33	Cum
	Materail to be dumped = (A)-(B)	2194.3	Cum
	Swell factor 16%	351.088	Cum
	Total quantity of material to be dumped in dumping area	2545.388	Cum

गाय वन अधिकारी
पिथौरागढ़ वन विभाग

वन क्षेत्र अधिकारी
घारकुल।

Rlingh
अधिशायसी अभियन्ता
यूजेवीएन लिमिटेड
मुनस्यारी (पिथौरागढ़)

Name of Project: - Tankul (4x3 MW) Small Hydro Project, Dharchula, District-Pithoragarh

Carrying Capacity of Muck Dumping Yard							
Detail of Measurement							
S.No.	Items of work	No. of blocks	Length	Width	Height	Qty	Unit
1.	Muck disposal site near weir and D-tank area.	1	20	10	5.5	1100	m ³
2.	Muck disposal site at Power Channel area.	1	20	10	5.5	1100	m ³
3.	Muck disposal near Power House	1	20	20	5.5	2200	m ³
Total						4400	m³

पिथौरागढ़ वन विभाग
पिथौरागढ़ जिला प्रशासन

वन क्षेत्र अधिकारी
धार्चुला

अधिशामी अभियन्ता
यूजेवीएन लिमिटेड
मुनस्यारी (पिथौरागढ़)

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1.	Muck disposal site near weir and D-tank area.	1	20	10	5.5	1100	m ³
2.	Muck disposal site at Power Channel area.	1	20	10	5.5	1100	m ³
3.	Muck disposal near Power House	1	20	20	5.5	2200	m ³
Total						4400	m³

पिथौरागढ़ वन विभाग
पिथौरागढ़ जिला प्रशासन

वन क्षेत्र अधिकारी
धार्चुला

अधिशामी अभियन्ता
यूजेवीएन लिमिटेड
मुनस्यारी (पिथौरागढ़)

Name of Project : Tankul (4x3 MW) Small Hydro Project, Dharchula, District - Pithoragarh

Detail of Measurement							
S.No.	Items of Work	No.	Length	Width	Height	Qty	Unit
1	Excavation in foundation for retaining walls in all types of soil and rocks including lead, lift and disposal of surplus material as per direction of Engineer in Charge. (As per PWD Uttarakhand Specifications).						
i	Muck disposal site near weir and D-tank area.	1	20	1.5	0.5	15	m ³
		2	10	1.5	0.5	15	m ³
ii	Muck disposal site at Power Channel area.	1	20	1.5	0.5	15	m ³
		2	10	1.5	0.5	15	m ³
iii	Muck disposal near Power House site.	1	20	1.5	0.5	15	m ³
		2	20	1.5	0.5	30	m ³
Total						105	m³
2	Providing and laying of wire crates 3.0 x 1.50 x 1.50 in size with a 10 guage BWG GI wire confirming to IS 280 in 150 mm x 150 mm mesh laid with stone boulders. As per directions of Engineer in Charge.						
i	Muck disposal site near weir and D-tank area.	1	20	1.5	6	180	m ³
		2	10	1.5	6	180	m ³
ii	Muck disposal site at Power Channel area.	1	20	1.5	6	180	m ³
		2	10	1.5	6	180	m ³
iii	Muck disposal near Power House site.	1	20	1.5	6	180	m ³
		2	20	1.5	6	360	m ³
Total						1260	m³

पथार वन विभाग
पिथौरागढ़ जिला

वन क्षेत्राधिकारी
धार्चूला

अधिशारी अभियन्ता
यूजेवीएन लिमिटेड
मुनस्यारी (पिथौरागढ़)

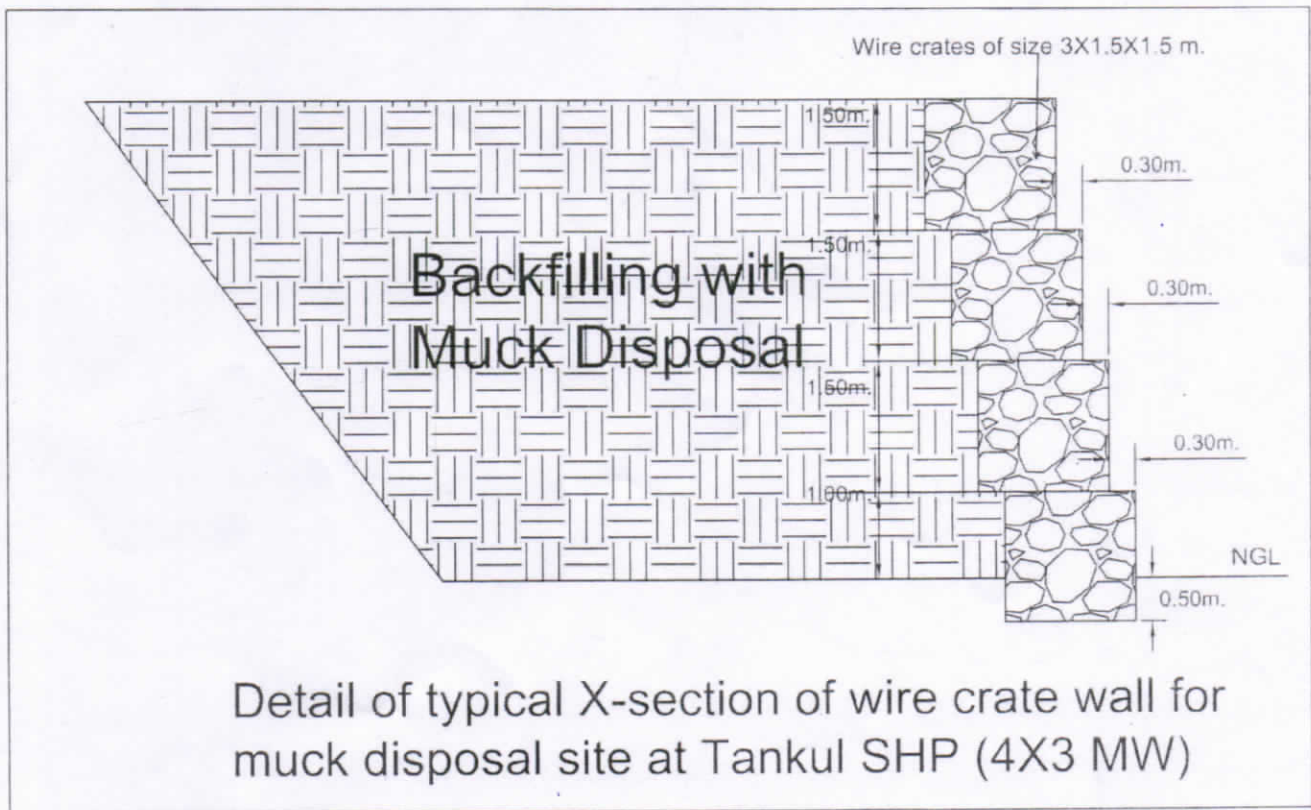
Name of Project : Tankul (4x3 MW) Small Hydro Project, Dharchula, District - Pithoragarh

Bill of Quantity					
S.No.	Items of Work	Qty	Unit	Rate in Rs.	Amount in Rs.
1	Excavation in foundation for retaining walls in all types of soil and rocks including lead, lift and disposal of surplus material as per direction of Engineer in Charge. (As per PWD Uttarakhand Specifications).	105	m ³	308.4	32382
2	Providing and laying of wire crates 3.0 x 1.50 x 1.50 in size with a 10 guage BWG GI wire confirming to IS 280 in 150 mm x 150 mm mesh laid with stone boulders. As per directions of Engineer in Charge.	1260	m ³	1464.1	1844766
3	Plantation of grass	L.S.			300000
Sum					2177148
4	Add 2% Surcharge				43542.96
Total					2220691
(Rs. Twenty Two Lakh Twenty Thousand Six Hundred Ninety One Only)					

**अध्यापक वन विभाग
पिथौरागढ़ वन विभाग**

**वन विभाग
धार्चुला**

**अध्यापक अभियन्ता
यूजेवीएन लिमिटेड
मुनस्यारी (पिथौरागढ़)**



वन क्षेत्राधिकारी
धारचूला
पिथौरागढ़

वन क्षेत्राधिकारी
धारचूला
पिथौरागढ़

अधिसासी अभियन्ता (जा. अभियन्ता)
यूजेवीएन लिमिटेड
धारचूला, पिथौरागढ़



परियोजना क्षेत्र का नाम
पिछौरा रागड़ में प्रस्तावित ताकुंठ

Assist. Engineer
Small Hydro. Project
UJVN Ltd.
Dharchula
Garhwal
Uttarakhand



वन क्षेत्र अधिकारी
धार्चुला
वन प्रभाग, पिछौरा रागड़

परियोजना क्षेत्र का नाम ताकुंठ तहसील धार्चुला अन्तर्गत जनपद पिछौरा रागड़ में प्रस्तावित ताकुंठ
Small Hydro. Project विद्युत परियोजना (4x3000 किलोवाट)-10.236 ई. भूमि प्रस्ताव
UJVN Ltd.
Dharchula
Garhwal
Uttarakhand
मलवा निस्तारण फोटोग्राफ

जनपद पिथौरागढ़ में तहसील धार्चुला अन्तर्गत प्रस्तावित साकुलवा
जल विद्युत परियोजना (क्षमता - 4X3 000 किलोवाट) 10.236 हे० केनव
निर्माण हेतु वन भूमि हस्तान्तरण प्रस्ताव।



मलवा निस्कारण प्रस्ताव (फोटोग्राफ)

जनपद वन अधिकारी
पिथौरागढ़ जिला

श्री
वन निरीक्षक
धार्चुला
पिथौरागढ़, उत्तरांचल

Shri
Assistant Engineer
Small Hydro Project
UJVN Ltd.
Division- Dharchula
Distt - Pithoragarh

मक डम्पिंग प्रमाण-पत्र

प्रमाणित किया जाता है कि जनपद पिथौरागढ़ में तांकुल (4x3 मेगावाट) लघु जल विद्युत परियोजना के निर्माण से उत्सर्जित मलवे को उचित प्रक्रियानुसार डम्पिंग किया जायेगा। मलवा प्रस्तावित मक साइटों में ही डाला जायेगा।

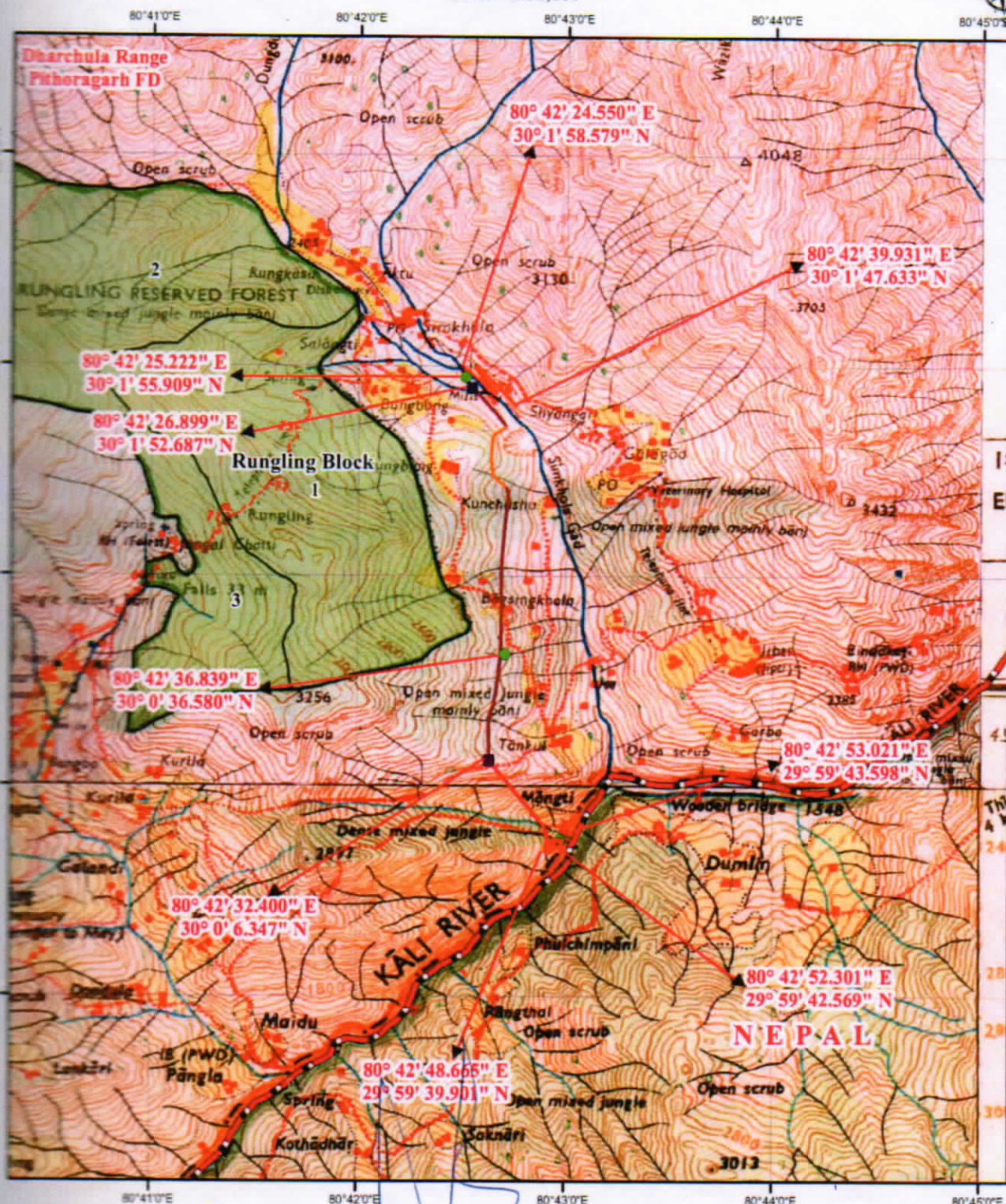

वन क्षेत्राधिकारी
धारचूला
वन प्रभाग, पिथौरागढ़


अधिशाली अभियन्ता (जनपद-पिथौरागढ़)
यूजेवीएन लिमिटेड
धारचूला, पिथौरागढ़

DIGITAL MAP OF 4x3000 K.W. TANKUL SMALL HYDRO POWER PROJECT DHARCHULA DISTRICT-PITHORAGARH

0 0.5 1 1.5 Km

Scale - 1:50,000



Legend

- Reserve Forest
- Reserve Forest Boundary
- Forest Division Boundary
- Forest Range Boundary

Legend

- D Tank
- Muck Disposal
- Power House
- Surge Shaft
- Penstock
- Power Channel
- Power Duct
- Road to P.H.
- Road to Weir
- Tunnel
- Weir

चन क्षेत्राधिकारी
धार्चुला
वन प्रभाग, पिथौरागढ़

उप प्रभागीय वन अधिकारी
जिलाधिकारी
हार्द्वीगढ़
पिथौरागढ़

Asistant Engineer
Small Hydro Project
UJV N Ltd.
Division- Dharchula

अभिषेक (जानवर-सजदिया)
यूजेवीएन लिमिटेड
धार्चुला