

JOINT INSPECTION REPORT

In regard to Proposal for the diversion of **8.0678 Ha.** forest land for the construction of Siul-IV Small Hydro Electric project (4MW) by M/S FRIENDS HIM ENERGIES. We the undersigned have been jointly inspected the area in proposal for diversion in favor of M/S FRIENDS HIM ENERGIES C/O Happy Sr. Sec. School Jail Road Tehsil and Distt. Gurdaspur (Punjab) for setting up (4MW) Siul-IV Small Hydro Electric project on Siul Nallah near Village Digoddi Tehsil Salooni Distt. Chamba H.P). During the course of inspection three (3) alternates' alignments examined by the committee as proposed by the project authorities and found that all the alignments need to pass through the forest land as well as through private land. The project requires **8.0678 Ha.** of forest land **1.2687Ha** out of private land required for the construction of Siul-IV Small Hydro Electric project (4MW) on Siul Nallah for various Project components such as weir site, intake tank, water conductor system, Desilting Tank, Dumping Sites ,Tunnel, FourBay, Penstock , Power House , Switch Yard , some portion of approach road and transmission line Siul -IV power house to swich yard of Siul -I project .

In Alternative -1 All the project components which have been proposed for construction on the left bank of Siul river as the technical feasibility. While the some part of transmission line constructed on right bank of river Siul requires minimum use of forest land .Forest area required is 7.9937Ha and minimum no of trees involved

In Alternative -2 All the project components which have been proposed for construction on the right bank of Siul river. In this proposal the length of tunnel increases by 350 meters which will be increases the requirement of forest land. From alternative-1 the forest land required will increases by about 1050 Ha more than the alternative -1.

In Alternative -3 the one of the project component water conductor system of the project is proposed as open channel. This option will also increase the required area under forest land as well as no of trees from the alternative -1. The forest land required will be increase up to 15% more than the alternative -1 i.e. the forest area will be about .1500Ha more than the alternative-1

Comparing the above three alternative the alignment-1 is technical and ecological more feasible involving barest minimum forest land.

The detail of land is given below:-

ABSTRACT OF MUHAL WISE DETAIL OF FOREST LAND COMING IN THE PROJECT ALIGNMENT FOR THE CONSTRUCTION OF SHEP 4 MW SIUL -IV DISTT. CHAMBA H.P

S. N.	Name of Mohal	Name of Component	Khasra No.	Area in B-B-B	Component size in Meters	Component size in Sq. Meters	Area in hectare	Name of Range	Name of Division	Name land use	Kisam
1	Jiladi	Trench weir (Diversion structure)	35/1 46/1	00-04-09	24X7.50	180	0.0180	Chakoli Kihar	Salooni	Forest	Charagah Drakhtan
2		Feeder Channel cum road	46/2	01-06-06	73.40X14.50	1064	0.1064	"	"	Forest	Charagah Drakhtan
3		Feeder Channel cum road	93/1 95/1	00-04-07	12.20X14.50	176	0.0176	"	"	Forest	Charagah bila Drakhtan
4		Feeder Channel cum road	96/2	00-13-02	36.60X14.50	530	0.0530	"	"	Forest	Charagah bila Drakhtan
5		Approach Road to weir site	93/2	00-02-00	20.25X4	81	0.0081	"	"	Forest	Charagah bila Drakhtan
6		Approach Road to weir site	95/3	00-03-06	35.50X4	134	0.0134	"	"	Forest	Charagah bila Drakhtan
7		Approach Road to weir site	96/4	00-09-05	93.50X4	374	0.0374	"	"	Forest	Charagah bila Drakhtan
8		Disilting tank	95/2	00-07-14	39X8	312	0.0312	"	"	Forest	Charagah bila Drakhtan
9		Disilting tank	96/1	00-07-00	34.45X8	283	0.0283	"	"	Forest	Charagah bila Drakhtan
10		Muck Dumping -1	521/4	00-06-12	27.20X9.85	267	0.0267	"	"	Forest	Charagah Drakhtan
11		Muck Dumping -3	522/2	00-12-10	35.65X14.20	506	0.0506	"	"	Forest	Charagah Drakhtan
12		Muck Dumping -4	96/3	00-10-10	74.83X5.68	425	0.0425	"	"	Forest	Charagah bila Drakhtan
13		Muck Dumping -5	93/3	00-10-00	27.95X14.20	405	0.0405	"	"	Forest	Charagah bila Drakhtan
14		Power House cum switch yard	521/3	00-03-06	9.50X14.20	134	0.0134	"	"	Forest	Charagah Drakhtan
15		Power House cum switch yard	521/,134/1	00-06-00	17.15X14.20	243	0.0243	"	"	Forest	Charagah bila Drakhtan Geir mumkin dariya

16		Four bay cum valve house	514/1	00-02-10	20.20X5	101	0.0101	..	..	Forest	Charagah Drakhtan
17		Proposed Penstock	521/2 522/1520/1	00-05/07	124.50X1.74	216	0.0216	..	..	Forest	Charagah Drakhtan Geir mumkin sadak
18		Under Ground Tunnel	87/1	00-08-12	116x3	348	0.0348	..	..	Forest	Under Ground
19		Under Ground Tunnel	140/1	00-02-16 00-01-08	37.80 19x3	113 57	0.0113 0.0057	..	..	Forest	Under Ground
20		Under Ground Tunnel	142/1	00-00-12	8x3	24	0.0024	..	..	Forest	Under Ground
21		Under Ground Tunnel	144/1	00-01-06	17.85x3	53	0.0053	..	..	Forest	Under Ground
22		Under Ground Tunnel	145/1	00-01-12	22.25x3	65	0.0065	..	..	Forest	Under Ground
23		Under Ground Tunnel	152/1	00-00-04	2.90x3	8	0.0008	..	..	Forest	Under Ground
24		Under Ground Tunnel	285/1	00-02-11	34.65x3	103	0.0103	..	..	Forest	Under Ground
25		Under Ground Tunnel	291/1	00-01-14	23x3	69	0.0069	..	..	Forest	Under Ground
26		Under Ground Tunnel	291/1/1	00-01-00	13.65x3	40	0.0040	..	..	Forest	Under Ground
27		Under Ground Tunnel	293/1/1	00-01-01	14x3	42	0.0042	..	..	Forest	Under Ground
28		Under Ground Tunnel	294/1	00-01-04	16.65x3	49	0.0049	..	..	Forest	Under Ground
29		Under Ground Tunnel	345/1	00-00-09	6x3	18	0.0018	..	..	Forest	Under Ground
30		Under Ground Tunnel	353/1	00-03-04	43x3	129	0.0129	..	..	Forest	Under Ground
31		Under Ground Tunnel	355/1	00-04-00	54x3	162	0.0162	..	..	Forest	Under Ground
32		Under Ground Tunnel	356/1	00-00-04	2.90x3	8	0.0008	..	..	Forest	Under Ground
33		Under Ground Tunnel	509/1	00-07-12	102.98x3	308	0.0308	..	..	Forest	Under Ground
34		Under Ground Tunnel	509/1/1	00-01-01	14x3	42	0.0042	..	..	Forest	Under Ground
35		Under Ground Tunnel	514/1	00-02-06	31x3	93	0.0093	..	..	Forest	Under Ground
36		Under Ground Tunnel	515/1	00-00-09	6x3	18	0.0018	..	..	Forest	Under Ground
37		Under Ground Tunnel	517/1	00-02-00	27x3	81	0.0081	..	..	Forest	Under Ground
38		Under Ground Tunnel	519/2	00-01-04	16.65x3	49	0.0049	..	..	Forest	Under Ground
			Total =	09-00-13		Total =	0.7310				
1	RF Jilari	Under Ground Tunnel	1/1/ ½	03-03-06	854.30X3	2562	0.2562	..	..	Forest	Under Ground
			Total =	03-03-06		Total =	0.2562				
1	Digodi	Road to power house site	545/416/1	01-00-13	167X5	835	0.0835	..	..	Forest	Charagah Drakhtan
2		Power House cum switch yard	545/416/2 432/1	00-06-19	19.85X14.20	281	0.0281	..	..	Forest	Charagah Drakhtan Geir mumkin dariya
3		Muck Dumping -2	545/416/3	00-09-00	36.70X9.94	364	0.0364	..	..	Forest	Charagah Drakhtan
4		Tail race channel	432/2	00-01-13	22.40X3	67	0.0067	..	..	Forest	Geir mumkin dariya
5		Transmission line	432/1	04-07-17	227.60X15.62	3555	0.3555	..	..	Forest	Geir mumkin dariya
6		Transmission line	565/545/416/1	00-02-11	6.65X15.62	103	0.0103	..	..	Forest	Charagah Drakhtan
7		Transmission line	425/1	01-17-17	98X15.62	1531	0.1531	..	..	Forest	Charagah Drakhtan
8		Transmission line	434/1	00-12-08	32.20X15.62	502	0.0502	..	..	Forest	Charagah Drakhtan
9		Transmission line	433/1	00-09-16	25.45X15.62	397	0.0397	..	..	Private	Dhani doyam
10		Transmission line	490/1	01-12-19	85.35X15.62	1333	0.1333	..	..	Forest	Geir mumkin dariya

11		Transmission line	491/1	01-01-14	56.25X15.62	878	0.0878	„	„	Forest	Charagah Drakhtan
12		Transmission line	618/531/1	05-06-16	276.65X15.62	4321	0.4321	„	„	Forest	Charagah Drakhtan
			Total =	17-10-03		Total =	1.4167				
1	Jalout	Transmission line	423/1	03-11-10	185.25X15.62	2893	0.2893			Forest	Charagah Drakhtan
2		Transmission line	461/1	00-06-01	15.70X15.62	245	0.0245			Forest	Geir mumkin dariya
			Total =	03-17-11		Total =	0.3138				
1	Ranjani	Transmission line	657/635/1	01-03-05	60.25X15.62	941	0.0941	„	„	Forest	Charagah bila Drakhtan
2		Transmission line	81/1	01-04-07	63.10X15.62	985	0.0985	„	„	Forest	Charagah bila Drakhtan
			Total =	02-07-12		Total =	0.1926				
1	Sanooh	Transmission line	363/1	00-01-16	4.70X15.62	73	0.0073	„	„	Private	Barani doyam
2		Transmission line	400/1	03-19-07	205.60X15.62	3211	0.2246	„	„	Forest	Charagah bila Drakhtan
3		Transmission line	406/1	00-02-05	5.85X15.62	91	0.0091	„	„	Private	Banjar Kadeem
4		Transmission line	407/1	00-07-03	18.55X15.62	289	0.0289	„	„	Private	Banjar Kadeem
5		Transmission line	408/1	02-15-03	142.90X15.62	2232	0.2232	„	„	Forest	Charagah bila Drakhtan
6		Transmission line	409/1	00-04-10	11.70X15.62	182	0.0182	„	„	Private	Barani doyam
7		Transmission line	410/1	03-14-06	192.55X15.62	3007	0.3007	„	„	Forest	Charagah bila Drakhtan
8		Transmission line	411/1	00-00-14	1.8X15.62	28	0.0028	„	„	Private	Barani doyam
9		Transmission line	488/1	03-08-18	178.50X15.62	2788	0.2788	„	„	Forest	Charagah bila Drakhtan
10		Transmission line	493/1	00-01-10	3.92X15.62	61	0.0061	„	„	Private	Bagicha faldar
11		Transmission line	495	00-04-00	10.40X15.62	162	0.0162	„	„	Private	Barani abal
12		Transmission line	497/1	00-00-12	1.55X15.62	24	0.0024	„	„	Private	Barani abal
13		Transmission line	498/1	00-15-15	40.80X15.62	637	0.0637	„	„	Private	Barani abal
14		Transmission line	499/1	00-05-05	13.60X15.62	212	0.0212	„	„	Private	Barani abal
15		Transmission line	503/1	01-02-06	57.75X15.62	902	0.0902	„	„	Forest	Charagah bila Drakhtan
16		Transmission line	504/1	00-04-09	11.55X15.62	180	0.0180	„	„	Private	Barani abal
17		Transmission line	505/1	00-00-08	1.05X15.62	16	0.0016	„	„	Private	Barani abal
18		Transmission line	506/1	00-05-13	14.70X15.62	229	0.0229	„	„	Private	Barani abal
19		Transmission line	507/1	00-07-13	19.85X15.62	310	0.0310	„	„	Private	Barani abal
20		Transmission line	510/1	00-06-06	16.35X15.62	255	0.0255	„	„	Private	Barani abal
21		Transmission line	512/1	00-00-16	2.10X15.62	32	0.0032	„	„	Private	Barani abal
22		Transmission line	518/1	00-06-00	15.60X15.62	243	0.0243	„	„	Private	Barani abal
23		Transmission line	772/1	03-15-14	196.10X15.62	3063	0.3063	„	„	Forest	Charagah bila Drakhtan
24		Transmission line	782/1	00-01-15	4.55X15.62	71	0.0071	„	„	Forest	Geir mumkin school ground
25		Transmission line	783/1	00-05-05	13.60X15.62	212	0.0212	„	„	Forest	Geir mumkin school ground
26		Transmission line	784/1	00-01-04	3.20X15.62	49	0.0049	„	„	Forest	Geir mumkin school ground
27		Transmission line	1037/ 787/1	02-02-14	110.68X15.62	1728	0.1728	„	„	Forest	Charagah bila Drakhtan
28		Transmission line	791/1/1	05-15-16	299.95X15.62	4685	0.3720	„	„	Forest	Geir mumkin dariya
29		Transmission line	792/1-792/2-792/3	01-04-15	64.10X15.62	1001	0.1001	„	„	Forest	Geir mumkin dariya
30		Transmission line	795/1	00-00-10	1.3X15.62	20	0.0020	„	„	Forest	Charagah bila Drakhtan

31		Transmission line	797/1	00-03-03	8.15X15.62	127	0.0127	..	..	Private	Barani soyam
32		Transmission line	918/1	02-18-08	151.40X15.62	2364	0.2364	..	..	Forest	Charagah bila Drakhtan
33		Transmission line	920/1	00-07-00	18.15X15.62	283	0.0283	..	..	Private	Barani soyam
34		Transmission line	921/1	00-06-00	15.60X15.62	243	0.0243	..	..	Forest	Geir mumkin sadak
35		Transmission line	922/1	00-05-00	12.98X15.62	202	0.0202	..	..	Private	Banjar kadim
36		Transmission line	923/1	01-02-13	58.70X15.62	916	0.0916	..	..	Private	Barani soyam
37		Transmission line	926/1	00-03-12	9.40X15.62	146	0.0146	..	..	Forest	Geir mumkin nala
38		Transmission line	928/1	00-19-02	49.50X15.62	773	0.0773	..	..	Private	Banjar kadim
39		Transmission line	929/1	00-14-17	38.50X15.62	601	0.0601	..	..	Private	Banjar kadim
40		Transmission line	932/1	01-14-10	89.40X15.62	1396	0.1396	..	..	Forest	Charagah bila Drakhtan
41		Transmission line	1041/ 940/1	01-04-15	64.10X15.62	1001	0.1001	..	..	Private	Barani soyam
			Total =	42-01-08		Total =	3.4045				
1	Kanthli	Transmission line	409/49/1	06-12-11	343.43X15.62	5364	0.5364	..	..	Forest	Charagah bila Drakhtan
2		Transmission line	420/85/1	01-16-14	95.10X15.62	1485	0.1485	..	..	Forest	Charagah Drakhtan
3		Transmission line	428/106/1	00-10-01	26.10X15.62	407	0.0407	..	..	Forest	Charagah Drakhtan
4		Transmission line	108/1	00-11-18	30.90X15.62	482	0.0482	..	..	Private	Bagicha barani faldaar
5		Transmission line	109/1	00-13-00	33.70X15.62	526	0.0526	..	..	Private	Barani doyam
6		Transmission line	110/1	02-18-10	151.65X15.62	2368	0.2368	..	..	Forest	Charagah Drakhtan
7		Transmission line	111/1	00-09-14	25.20X15.62	393	0.0393	..	..	Forest	Charagah bila Drakhtan
8		Transmission line	112/1	00-02-02	5.50X15.62	85	0.0085	..	..	Private	Banjar kadim
9		Transmission line	113/1	00-02-10	6.50X15.62	101	0.0101	..	..	Private	Barni royam
10		Transmission line	115/1	00-01-18	4.95X15.62	77	0.0077	..	..	Private	Barani abal
11		Transmission line	117/1	00-01-04	3.15X15.62	49	0.0049	..	..	Private	Barani doyam
12		Transmission line	467/361/1	00-10-01	26.10X15.62	407	0.0407	..	..	Forest	Charagah bila Drakhtan
13		Transmission line	469/362/1	00-05-16	15.10X15.62	235	0.0235	..	..	Forest	Narsari
14		Transmission line	468/362/1	00-00-08	1.05X15.62	16	0.0016	..	..	Forest	Charagah Drakhtan
15		Transmission line	364/1	02-04-06	114.85X15.62	1793	0.1793	..	..	Forest	Narsari
16		Transmission line	473/367/1	00-02-16	7.25X15.62	113	0.0113	..	..	Forest	Charagah bila Drakhtan
17		Transmission line	445/302/1	00-02-05	5.85X15.62	91	0.0091	..	..	Forest	Geir mumkin nala
18		Transmission line	368/1 368/2	00-18-17	48.85X15.62	763	0.0763	..	..	Forest	Charagah bila Drakhtan
19		Transmission line	369/1 369/2369/3 369/4	00-10-11 00-04-05	27.40X15.62 11.05X15.62	427 172	0.0427 0.0172			Forest	Geir mumkin dariya
			Total =	18-19-07		Total =	1.5354				
1	Baaddi	Transmission line	94/1	00-19-09	50.40X15.62	787	0.0787	..	..	Forest	Charagah bila Drakhtan
2		Transmission line	107/1	00-00-08	1.05X15.62	16	0.0016	..	..	Private	Barani doyam
3		Transmission line	204/1/1	01-07-03	70.35X15.62	1098	0.1098	..	..	Forest	Charagah Drakhtan
4		Transmission line	204/2/1	00-13-10	35X15.62	546	0.0546	..	..	Forest	Geir mumkin nala
5		Transmission line	380/1/1	00-01-00	2.60X15.62	40	0.0040	..	..	Forest	Geir mumkin nala
6		Transmission line	384/1	01-16-08	94.35X15.62	1473	0.1473	..	..	Private	Banjar kadeem

7		Transmission line	390/1	00-01-16	4.70X15.62	73	0.0073			Private	Dhani doyam
			Total =	04-19-14	15.62	Total =	0.4033				
1	Ghadetra	Transmission line	1/1/1	00-04-11	11.80 X15.62	184	0.0184			Forest	Geir mumkin dariya
			1/1/2	01-00-00	51.80X15.62	809	0.0809				
2		Transmission line	136/1	01-09-16	77.25X15.62	1206	0.1206			Forest	Charagah Drakhtan
			Total =	02-14-07		Total =	0.2199				
1	Bhasua	Transmission line	412/1	00-05-12	14.55 X15.62	227	0.0227			Private	Barani doyam
			412/2	00-02-08	6.25X15.62	97	0.0097				
2		Transmission line	1/1	00-02-16	7.25X15.62	113	0.0113			Forest	Geir mumkin nala
3		Transmission line	488/1	00-17-00	44.10X15.62	688	0.0688			Forest	Charagah bila Drakhtan
4		Transmission line	501/1	00-09-02	23.60X15.62	368	0.0368			Forest	Geir mumkin dariya
			501/2	01-15-01	90.80X15.62	1418	0.1418				
5		Transmission line	504/1	01-15-08	91.70X15.62	1432	0.1432			Forest	Charagah bila Drakhtan
			504/2	04-09-05	231.20X15.62	3611	0.3611				
6		Transmission line	517/1	00-06-00	15.60X15.62	243	0.0243			Forest	Charagah bila Drakhtan
7		Transmission line	1026/514/1	00-03-06	8.60X15.62	134	0.0134			Forest	Geir mumkin sadak
8		Transmission line	1028/516/1	00-01-16	4.70X15.62	73	0.0073			Forest	Geir mumkin sadak
9		Transmission line	1029/516/1	00-01-16	4.70X15.62	73	0.0073			Private	Barani doyam
10		Transmission line	1031/518/1	00-03-16	9.90X15.62	154	0.0154			Private	Barani doyam
			Total =	10-13-06		Total =	0.8631				
Total land = 115-07-07 Bighas						9.3365 in hectare					
Forest land =99-13-16 Bighas				8.0678 In ha.		Private land= 15-13-11 Bighas			1.2687 in ha.		

Therefore after been perusal by the inspection committee envisage on land required under the project including forest involved for diversion in the proposal is more suitable and recommended that hectare of forest land under section 20 of FCA 1980 may kindly be diverted for non forestry purposes in favor of M/ S FRIENDS HIM ENERGIES. Project to the construction of (4MW) Small Hydro Electric project in Salooni Forest Division in Distt. Chamba HP.

Sub-Divisional Officer (C)
Salooni Distt. Chamba (H.P.)

Junior Engineer (C)
HIM URJA Chamba (H.P.)

Divisional Forest Officer
Salooni Distt. Chamba
Churahi Forest Division
Salooni Chamba (H.P.)

Range Officer
Salooni Distt. Chamba
Forest Range Chamba

Friends HIM ENERGIES
M/S FRIENDS HIM ENERGIES.
Authorised Signatory