

## नेपाल सरकार उर्जा, जलस्रोत तथा सिचाइ मन्त्रालय

जावलाखल, न्लालिसपुर

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फ्याक्सः ९७७-१-५५३७१६९

मिति:२०७८/०७/११

श्री आयोजना/कार्यालय (सबै) जलस्रोत तथा सिंचाइ विभाग

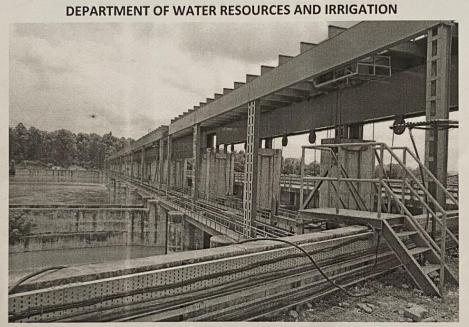
विषय: "Norms for Environmental, Social and Forest Assessment-2078" प्रयोग सम्बन्धमा ।

प्रस्तुत विषयमा, जलस्रोत तथा सिंचाइ विभागको मिति २०७८/०६/१४ को विभागस्तरीय निर्णयानुसार स्वीकृत भएको Norms for Environmental, Social and Forest Assessment-2078 को एक प्रति यसै पत्रसाथ संलग्न राखि सोही अनुसार अध्ययन/अनुसंधान गर्नु/गराउनु हुन निर्देशानुसार अनुरोध छ ।

कृष्ण प्रसाद नेपाल उप महानिर्देशक



# GOVERNMENT OF NEPAL MINISTRY OF ENERGY WATER RESOURCES AND IRRIGATION



NORMS FOR ENVIRONMENTAL, SOCIAL AND FOREST ASSESSMENT
OF
WATER RESOURCES AND IRRIGATION PROJECTS

2078



# GOVERNMENT OF NEPAL MINISTRY OF ENERGY WATER RESOURCES AND IRRIGATION DEPARTMENT OF WATER RESOURCES AND IRRIGATION

NORMS FOR ENVIRONMENTAL, SOCIAL AND FOREST ASSESSMENT
OF
WATER RESOURCES AND IRRIGATION PROJECTS

2078

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ACKNOWLEDGEMENT

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### ABBREVIATIONS AND ACRONYMS

BES : Brief Environmental Survey

CF : Community Forest
DFO : District Forest Officer
DFS : Detailed Feasibility Study
DPR : Detailed Project Report

EIA : Environmental Impact Assessment
EPA : Environmental Protection Act
EPR : Environmental Protection Rules

Er. : Engineer

GCA : Gross Command Area

GIS : Geographic Information System

Ha : Hectare
HH : Household
HP : Hydropower

HPP : Hydro Power Project

IEE : Initial Environmental Examination

IP : Irrigation Project

Km : Kilometer

LIP : Lift Irrigation Project

: Lump Sum LS : Meter m : Megawatt MW : National Park NP : River Bank Length RBL : Right of Way RoW : Scoping Document SD : Team Leader TL

TLL: Transmission Line Length
TOR: Terms of Reference
VAT: Value Added Tax

MoFE : Ministry of Forest and Environment

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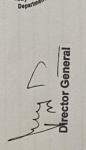
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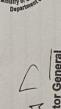
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1. Preparation of Prior Consent

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ysis	days	9	0	0		6 Non Key Staff	0.20
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2.0 Brief Environmental Study

Expection A: Human Resource   Field   Desk   Desk Work   Desk Work   Desk York   D				Brief Env	ironmenta	I Study for	Lift Irriga	Brief Environmental Study for Lift Irrigation Project (GCA≥25 Hectare)	4>25 Hectare)		
(Work         Total Person         Remarks         Person           1         7         Key Staff         Month           1         7         Key Staff (Optional-Recific)         Month           1         7         Key Staff (Optional-Recific)         Key Staff (Optional-Recific)           1         7         Key Staff (Optional-Recific)         Key Staff (Optional-Recific)           1         4         Key Staff (Optional-Recific)         Sub-Total           1         1         Non Key Staff         Sub-Total           4         12         Non Key Staff         Sub-Total           4         12         Non Key Staff         Sub-Total           LS         Sub-Total         Sub-Total           LS         Total         A+B+C           LS         Total         A+B+C           Total         A-B+C         A-B+C           Dijector General         Beneral         Beneral	Sec	tion A: Human Resource		ToR Prep	aration	Draft Pre	paration	Final Report Preparation			Total lumit
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st         days         2         2         2         1         9         Rey Staff (Optional-specific)           days         1         4         4         2         1         Key Staff (Optional-specific)           days         0         1         4         2         1         Key Staff (Optional-specific)           days         0         1         4         2         7         Non Key Staff           days         4         4         12         8         A4         Non Key Staff           days         4         4         12         6         4         2         7         Non Key Staff           days         4         4         12         6         4         2         8         Non Key Staff         9           days         4         4         4         4         4         4         Non Key Staff         9           manual control         1         1         4	st         days         2         2         2         1         9         Project Specific)           days         1         4         4         2         1         Key Staff (Optional-Specific)           days         0         1         4         4         2         12         Key Staff (Optional-Specific)           days         0         1         4         2         7         Non Key Staff           days         4         4         12         16         8         44         Non Key Staff           days         4         4         4         12         16         8         44         Non Key Staff           days         4         4         4         4         4         4         Non Key Staff           days         4         4         4         4         4         Non Key Staff         5           manual         7         7         6         5         6         4         A	st         days         2         2         2         1         9         Rey Staff (Optional-Consist of any Pond/storage structure           days         1         1         4         4         2         12         Key Staff (Optional-Consist of any pond/storage structure           days         0         1         0         4         2         7         Non Key Staff           days         0         2         0         4         2         8         Non Key Staff         5           days         4         4         12         16         8         44         Non Key Staff         5           days         4         4         12         16         8         44         Non Key Staff         5           15% of Section A         7% of Section A         7% of Section A         10% of Section A	Specialist	of anomiet	days	7	2	4	4	2	14	Key Staff	0.47	
days	days	days	Geologist/Er.	ist/Er.	cken cken	, ,	, ,	,	2	1	6		0:30	
days         0         4         2         7         Non Key Staff           days         0         2         0         4         2         8         Non Key Staff           days         4         4         4         12         16         8         44         Non Key Staff           s         4         4         4         12         16         8         44         Non Key Staff         5           s         5         5         5         5         5         5         5         5         5         5         5         6         5         6         5         6         6         7         6         5         6         7         6         6         7         7         6         6         7         7         6         7         7         6         7         7         6         7 </td <td>  days</td> <td>  days</td> <td>Seolog</td> <td>ist/ Hydrologist</td> <td>days</td> <td>7</td> <td>1</td> <td>4</td> <td>4</td> <td>2</td> <td>12</td> <td>Key Staff</td> <td>0.40</td> <td></td>	days	days	Seolog	ist/ Hydrologist	days	7	1	4	4	2	12	Key Staff	0.40	
days         0         2         0         4         2         8         Non Key Staff           days         4         4         12         16         8         44         Non Key Staff         5           nowalization         15% of Section A         7% of Section A         7% of Section A         7% of Section A         10%	days	days	Pegal F	xnert	davs		1	0	4	2	7	Non Key Staff	0.23	
days	days	days	andil	age Expert	davs		2		4	2		Non Key Staff	0.27	
15% of Section A	15% of Section A   15% of Section A   7% of Section A   7% of Section A   7% of Section A   7% of Section A   10% of Section	15% of Section A  15% of Section A  7% of Section A  7% of Section A  7% of Section A  7% of Section A  10% of Section A	Accietant	ant ant	davs		4		16		44		1.47	
15% of Section A   7% of Section A   7% of Section A   7% of Section A   7% of Section A   10% of Section	15% of Section A   7% of Section A   10% of Section A	15% of Section A  7% of Section A  7% of Section A  7% of Section A  10% of Section											Sub-Total A	
7% of Section A 7% of Section A 10% of Section A 10% of Section A LS LS LS LS Total	7% of Section A   7% of Section A   7% of Section A   7% of Section A   10% of Section	n 10% of Section A 7% of Section A 10% of Section A LS LS LS A 100 hectare the total person input shall be increases by a factor (CA/100)**0.3 A 16 the proposal consist of any pond/storage structure	on B:	Reimbursable						15 % of Section	D A			
7% of Section A 10% of Section A 10% of Section A LS LS LS Total	n LS  Inses  Total  Total	n 10% of Section A LS LS LS LS A 100 hectare the total person input shall be increases by a factor (CA/100)**0.3 A 16 the proposal consist of any pond/storage structure	Travel Cost	Cost						70/ of Coction	~			
10% of Section A  10% of Section A  LS  LS  LS  Total	n LS  nn	n LS  In LS  On hectare the total person input shall be increases by a factor (CA/100)*0.3	Equipments	nents						7% of Section				
10% of Section A  10% of Section A  LS  Enses  LS  Total	n LS  Inses  Con hertare the total person input shall be increases by a factor (CA/100)*0.3	n LS  enses LS  Of hectare the total person input shall be increases by a factor (CA/100)*0.3	abora	tory Analysis						יייי פיייי				
n LS LS enses LS Total	anses LS  LS  Total	n LS  LS  LOS  Dobe hectare the total person input shall be increases by a factor (CA/100)*0.3  Ad if the proposal consist of any pond/storage structure	Stationary	ary						10% of Sectio	nA		Sub-Total B	1000
n LS LS and a LS Total	enses LS  LS  Total	enses LS  LS  Total  00 hectare the total person input shall be increases by a factor (CA/100)*0.3	on C:	Notice and Allowa	nces								onn-iorai o	
Ises LS Total	Total	Ministr	lews F	Paper Notice Public	cation					LS				
1000	Total	Total	ublic	Hearing and Other	- Expen	ses				S			Sub-Total C	
	Area shows 100 hertare the total person input shall be increases by a factor (CA/100) 0.3	Command Area above 100 hectare the total person input shall be increases by a factor (CA/100)^0.3										Tot	1000	
5% of the total input shall be added if the proposal consist of any pond/storage structure  5% of the total input shall be added if the proposal consist of any pond/storage structure  5% of the total input shall be added if the proposal consist of any pond/storage structure  5% of the total input shall be added if the proposal consist of any pond/storage structure  5% of the total input shall be added if the proposal consist of any pond/storage structure  5% of the total input shall be added if the proposal consist of any pond/storage structure  5% of the total input shall be added if the proposal consist of any pond/storage structure  5% of the total input shall be added if the proposal consist of any pond/storage structure  5% of the total input shall be added if the proposal consist of any pond/storage structure  5% of the total input shall be added if the proposal consist of any pond/storage structure  5% of the total input shall be added if the proposal consist of any pond/storage structure  5% of the total input shall be added if the proposal consist of any pond/storage structure  6% of the total input shall be added if the proposal consist of any pond/storage structure  6% of the total input shall be added if the proposal consist of any pond/storage structure  6% of the total input shall be added if the proposal consist of any pond/structure  6% of the total input shall be added in the proposal consist of any pond/structure  6% of the total input shall be added in the proposal consist of any pond/structure  6% of the total input shall be added in the proposal consist of any pond/structure  6% of the total input shall be added in the proposal consist of any pond/structure  6% of the total input shall be added in the proposal consist of any pond/structure  6% of the total input shall be added in the proposal consist of any pond/structure  7% of the total input shall be added in the proposal consist of any pond/structure  7% of the total input shall be added in the proposal consist of any pond/structure  7%	Director General													

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Total Input  Riconal- fic)  f  f  Sub-Total Sub-Tot  Sub-Tot  Sub-Tot  Sub-Tot  Sub-Tot		Initia	al Envir	onmental	Examina	ition (IEE	) study fo	r River Trainin	Initial Environmental Examination (IEE) study for River Training (River Bank Length ≤20 Km)	ength ≤20 Km)	
marks Person Mo y Staff (Optional- ject Specific) y Staff (Optional- ject Specific) y Staff (Optional- in Key Staff (Sub-Total- n Key Staff (Sub-Total- sub-Total (Sub-Total- Total (A+B+C	Se	ction A: Human Resource		To Prepar	R ation	Prepa	aft	Final Report Preparation			Total Innut
y Staff y Staff y Staff y Staff y Staff y Staff n Key Staff n Key Staff n Key Staff n Key Staff sub-Tot Sub-Tot	SN		Unit	Field	Desk	Field	Desk	Desk Work	Total Person	Remarks	Dorect Month
y Staff y Staff y Staff y Staff y Staff n Key Staff n Key Staff n Key Staff n Key Staff sub-Tot Sub-Tot	-		days	2	2	9		4		Kev staff	0.72
y Staff y Staff y Staff y Staff y Staff y Staff n Key Staff n Key Staff n Key Staff su Key Staff The Staff sub-Tot Sub-Tot Total A+B+C	,									0	0.75
y Staff y Staff y Staff (Optional- )ject Specific) y Staff n Key Staff n Key Staff n Key Staff sub-Tot Sub-Tot	1		days	7	2	4	4	2	14		0.47
y Staff (Optional- ject Specific) y Staff (New Staff (N	m	Biodiversity/ Forestry Specialist	days	2	2	4	4	2	14		0.47
y Staff (Optional- ject Specific) y Staff nn Key Staff nn Key Staff nn Key Staff sub-Tot Sub-Tot	4	Socio-Economist	days	2	2	4	4	2	14		0.47
y Staff nn Key Staff nn Key Staff nn Key Staff Sub-Tot Sub-Tot Total A+B+C	5	Geologist/Er. Geologist/Hydrologist	days	2	2	2	2	1	6	The Contract	0.30
n Key Staff n Key Staff n Key Staff Sub-Tot Sub-Tot Sub-Tot	9	GIS Expert	days	1	1	4	4	2	12	100	0.40
n Key Staff Sub-Tota Sub-Tota Sub-Tota Sub-Tota A+B+C	7	Legal Expert	days	0	1	0	4	2	7	Non Key Staff	0.23
Sub-Tota Sub-Tota Sub-Tota Sub-Tota Sub-Tota Sub-Tota A+B+C	8	Language Expert	days	0	2	0		2	∞	1000	0.27
Total	6	Assistant	days	4	4	12		8	44	Non Key Staff	1.47
Total											Sub-Total A
Total	e	tion B: Reimbursable									
Total	-						15	% of Section A			
Total	2				No. of Street,		7	% of Section A			
Total		Laboratory Analysis					7	% of Section A			
Total	4	Stationary					10	% of Section A			
Total	ec	tion C: Notice and Allowanc	ses					4			Sub-Total B
Total	_	News Paper Notice Publicat	tion					SI			
Total	01	Public Hearing and Other Ex	xpense	S				SJ			
Total											Sub-Total C
or River Training Work above 20 km length the total person input shall increase by a factor (Length/20)^0.7										Tota	
All VIII.	or	River Training Work above 2	0 km le	ength the	total per	son inpu	it shall in	crease by a fac	tor (Length/20)	7.0.7	

5.0 EIA Study of River Training Project

SN         Expertise         Total Imput         Frequencial         Fre		Em	vironme	ntal Imp	act Asse	Ssment (	FIA) ctudy	for Divor Traini	June (Disser Dear).		
Staff Sub-Tota				1	2	-	1300		18 (MINEL DAILY	Lengun 220 Km)	
Staff Ney Staff Ney Staff Sub-Tota Total A+B+C-	Se	ection A: Human Resource		Prepa	ration	Prep	aration	Final Report Preparation			Total lanut
Staff Staff Staff Staff Staff Staff Staff Ney Staff Ney Staff Sub-Tota Total A+B+C-	S		Unit	Field		Field	Desk	Desk Work	Total Person	Remarke	oral liput
Staff Staff Staff Staff Staff Staff Ney Staff Ney Staff Sub-Tota Total A+B+C-		1 Environmentalist (TL)	days	4	9	15				5 198	rerson Month
Staff Staff Staff Staff Staff Staff Staff New Staff New Staff New Staff Sub-Tota Sub-Tota Total A+B+C-		Water Resources					2	2	£		1.50
Staff Staff Staff Staff Staff Staff Ney Staff Ney Staff Sub-Tota Total A+B+C-			days	4	5	12	12		38		1 27
Staff Staff Staff (Optional- ject Specific) Staff I key Staff I key Staff Sub-Tota Sub-Tota Total A+B+C-									3	300	1.2.1
Staff Staff (Optional- ject Specific) Staff I Key Staf			days	3	3	8	10	5	29		0.97
Staff (Optional- lect Specific) Staff I key Staff I ke	7		days	3	3	15	15	5	41	Key Staff	1.37
Staff Staff I key Staff I key Staff I key Staff Sub-Tota  Total A+B+C-										Key Staff (Optional-	
Staff  Ney Staff  Ney Staff  Ney Staff  Sub-Tota  Sub-Tota  Total  A+B+C-		_	days	1	1	2	2	1	7	Project Specific)	0.23
Ney Staff Ney Staff Ney Staff Sub-Tota Sub-Tota Total A+B+C-	9	-	days	2	2	5	5	3	17	Key Staff	0.57
Ney Staff Sub-Tota Sub-Tota Total A+B+C-	1		days	0	2	0	5	2	6	13000	0:30
Ney Staff Sub-Tota Sub-Tota Sub-Tota Total A+B+C-	8	200	days	0	2	0	5	2	6	Service	0:30
Total	5		days	8	12	30	30	0	80		2.67
Total											Sub-Total A
Total	Se	ction B: Reimbursable									
Total	1	Travel Cost					1	15 % of Section /	1		
Total	2	Section 1						7% of Section A			
Total	3	Laboratory Analysis						7% of Section A			
Total	4	Stationary						10% of Section A	1		
Total	Sec	tion C: Notice and Allowa	nces								Sub-Total B
Total	1	News Paper Notice Public	cation						LS		
Total	2		Expense	se					LS		
Total	1000										Sub-Total C
or River Training Work above 20 km length the total person input shall increase by a factor (Length/20)^0.7	100									Total	
	For	River Training Work above	e 20 km	length th	e total	person ir	iput shall i	ncrease by a fac	tor (Length/20	7.0.7	

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6.0 IEE study of Irrigation Project

100	Initial En	vironme	ental Exam	ination (	IEE) study for	Irrigatio	n Project	(GCA: ≤500ha, C	Initial Environmental Examination (IEE) study for Irrigation Project (GCA: <500ha, Canal Lengths5 Km)	
Se	Section A: Human Resource		ToR	R	Drangelon	Final	Final Report			
S			Field	Dock	rieparation	-	aration			Total Input
Z	Expertise	Unit	Work	Work	Field Work	Desk	Desk	Total Person Davs	Remarks	Darcon Month
1	1 Environmentalist (TL)	days	2	,5	9	8		27	30	reison Monthi
2		days	2	2	4	4	2	14	2 200	0.73
m	Biodiversity/ Forestry Specialist	days	2	2	4	4	, ,	14		0.47
4	Socio-Economist	days	2	2	4	4	2	14		0.47
5	Geologist/Er. Geologist/Hydrologist	days	2	2	2	2	1	6		0.47
9	GIS Expert	days	2	2	4	4	2	14		740
7	Legal Expert	days	0	1	0	4	2	7		0.23
00	Language Expert	days	0	2	0	4	2	8		0.27
6	Assistant	days	4	4	12	16	8	44		1.47
										Sub-Total A
Sec	Section B: Reimbursable									
1	Travel Cost					15 % of	15 % of Section A			
2	Equipments					7% of S	7% of Section A			
3	Laboratory Analysis					7% of S	7% of Section A			
4	Stationary					10% of 5	10% of Section A			
Sec	Section C: Notice and Allowances	seou								Sub-Total B
1	1 News Paper Notice Publication	ation					SJ			
2	2   Public Hearing and Other Expenses	Expense	S				SI			
										Sub-Total C
										Total A+B+C=D
For	For Irrigation Projects above 500 ha GCA, the total person input shall increase by a factor (GCA/500)^0.3	00 ha GC	CA, the total	al person	input shall inc	crease by	y a factor	(GCA/500) 0.3		
For	For the length of canal above 5 Km, the total person input shall increase by a factor (Length/5)^0.3	5 Km, the	e total pers	son input	shall increase	by a fac	tor (Leng	th/5)^0.3		
		The second second	The second second						AND THE SECOND	

7.0 EIA Study of IP

	Enviro	nmenta	Il Impact	Assessme	nt of Irrig	gation Pro	yject (GCA: ≤20	Environmental Impact Assessment of Irrigation Project (GCA: ≤2000ha, Canal Length≤10 Km)	gth≤10 Km)	
Se	Section A: Human Resource		SD,	SD/ToR Preparation	Drong	Draft	Final Report			:
0			777			Idilon	riepalation			lotal Input
n Z	Expertise	Unit	Work	Desk Work	Field	Desk	Desk Work	Total Person Days	Remarks	Person Month
1	Environmentalist (TL)	days	4	9	15	15	5	45	a Date	150
2	Water Resources Expert	days	4	5	17	17		38		1.7
13	Biodiversity/ Forestry					-		3		1.27
3		days	3	3	00	10	2	29	Key Staff	0.97
4	Socio-Economist	days	3	3	15	15	5	41	Key Staff	1.37
	Contractor								Key Staff	
2	Geologist/Hydrologist	days	1	1	2	2	•	7	(Optional-Project	0.00
9	GIS Expert	days	2	2	5	5	3	17		0.23
1	Legal Expert	days	0	2	0	5	2	0	Non Key Staff	00.0
00	Language Expert	days	0	2	0	5	2	6		0.30
6	Assistant	days	8	12	30	30	0	80		2.67
19	Cortion B. Doimhuscahla									Sub-Total A
7	Travel Cost									
-						15%	15 % of Section A			
2						7%0	7% of Section A			
3	Laboratory Analysis					7%0	7% of Section A			
4	Stationary				-	10%	10% of Section A			
Sec	Section C: Notice and Allowances	es								Cub Total B
1	News Paper Notice Publication	ion					SI			Sub-Total B
2	Public Hearing and Other Expenses	chenses					SI			
										Sub-Total C
For	For Irrigation Projects above 2000 ha GCA, the total person input shall increase by a factor (GCA/2000) of	30 ha GC	A, the to	tal person	input sha	all increas	e by a factor (G	ב היוחחחל איז		IOIAI ATBTC-D
FO	For the length of canal above 10 Km, the total person input shall increase by a factor (Length/10)°0.4	Km, the	e total pe	rson input	shall inci	rease by a	factor (Length	/10)^0.4	AND DE	
	1							/ /	The state of the s	The second second

8.0 IEE Study of HPP

		Initi	al Environt	mental E	xaminatic	on of Hyd	Initial Environmental Examination of Hydropower Project (Capacity25 MW)	t (Capacity25 N	(MI	
			ToR	~	Draft	#	Final Report			
Sec	Section A: person Resource		Preparation	ation	Preparation	ation	Preparation			Total Input
			Field	Desk	Field	Desk		Total Person	Domorke	Person Month
SN	Expertise	Unit	Work	Work	Work	Work	Desk Work	Days		0.72
-	Environmentalist (TL)	days	2	2	9	8	4	22	Key Staff	0.73
	Water Resources								2000	710
2	Expert	days	2	2	4	4	2	14	кеу этап	1:0
	Biodiversity/ Forestry					200			77	0.47
3	Specialist	days	2	2	4	4	2	14		1.0
4		days	2	2	4	4	2	14		0.47
1					The second second				Key Staff (Optional-	
2	5 Geologist/Hydrologist	days	2	2	2	2	1	6		0.30
1	-	davs	2	2	4	4	2	14	Key Staff	0.47
	==	daye	10	1	0	4	2	7	Non Key Staff	0.23
1		days		, ,	0		2	00		0.27
_	8 Language expert	ndys	0	7			1 0		Non Voy Ctaff	1 47
6	9 Assistant	days	4	4	12	16	∞	#	NOII NEY Stail	Cub Total A
100										Sub-Total A
Se	Section B: Reimbursable									
-	Travel Cost					15	15 % of Section A			
1						79	7% of Section A			
1 "						79	7% of Section A			
7	Ctationary					10	10% of Section A			
1	Cartier C. Notice and Allowance	200								Sub-Total B
Se	ction c. Notice and Allows	coall.					31			
1		cation					3 -			
2	Public Hearing and Other Expenses	r Expens	es				3			0144
										Sub-Total C
										Total A+B+C=D
2	Economical MM increase in capacity above 5 MW, additional input shall increase by a factor (Capacity/5)^0.3	anacity	shove 5 M	W. addit	ional inpu	t shall inc	rease by a facto	or (Capacity/5)	0.3	
2	וו באבו ל ד ואוא וווכו במפר ווו	fananda				-0/ -fina	to a localitace to	lleda laveb noa	he added the estima	ate
Fo	For every addition of headwork/water abstraction infrastructure 5% of input required (person days) shall be added to the commence of the comme	ork/wate	r abstract	ion infra	structure	5% OI IIID	nt required (per	SOII days) siraii	TO DO	

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9.0 EIA Study of HPP

Section A: Human Resource   Preparation			Enviro	nmenta	Impact,	Assessme	nt of Hyd	ropower Proje	Environmental Impact Assessment of Hydropower Project (Capacity>50 MW)	MW)	
Experimentalist (TL)   days   A   Continue   Freedmention   Freedment   Freed   Desk   Des				/as	ToR	Dra	ift.	Final Report			
Expertise   Unit   Field   Desk   Field   Desk   Total Person Month   Mork   Work	Sec	tion A: Human Resource		Prepa	ration	Prepar	ation	Preparation			Total Input
National	1			100	Desk	Field	Desk	The state of	Total Person	O como d	Dorcon Month
Harden Resources Expert   days   4   6   15   15   5   5   40   key Starf   1.00     Riodiversity/Forestry   days   3   3   15   15   5   3   2   2   2   40   key Starf   1.00     Riodiversity/Forestry   days   3   3   15   15   5   41   key Starf   1.00     Geologisty/Euchomist   days   2   2   3   3   15   15   2   3   17   key Starf   0.040     Geologisty/Euchomist   days   0   2   0   5   3   17   key Starf   0.050     Geologisty/Euchomy   days   0   2   0   5   3   17   key Starf   0.050     Riodiversity/Euchomist   days   0   2   0   5   3   17   key Starf   0.050     Riodiversity/Euchomist   days   0   2   0   5   3   17   key Starf   0.050     Riodiversity/Euchomist   days   0   2   0   5   3   17   key Starf   0.050     Riodiversity/Euchomist   days   0   2   0   5   3   17   key Starf   0.050     Riodiversity/Euchomist   days   0   2   0   5   3   17   key Starf   0.050     Riodiversity/Euchomist   days   0   2   0   5   3   17   key Starf   0.050     Riodiversity/Euchomist   days   0   2   0   5   0   0   0   0   0   0   0     Riodionary Analysis   days   0   2   0   5   0   0   0   0   0   0   0   0	S		Ouit.		WORK	Work	Work			reilidins	reison Mondi
2   Water Resources Expert   days   3   3   4   10   10   5   32   Key Staff   1.07     3   Specialist   Sp	1		days	4	9	15	15	5	45	Key Staff	1.50
Biodiversity/ Forestry   Agys   3   3   15   15   5   29   Key Staff   1.37     A Socio-Economist   Agys   2   2   3   3   3   15   15   5   41   Key Staff   1.37     Geologist/Fir.   Agys   2   2   3   3   17   Key Staff   1.37     Geologist/Fir.   Agys   2   2   3   3   17   Key Staff   1.37     Geologist/Fir.   Agys   2   2   3   3   17   Key Staff   1.37     C Geologist/Fir.   Agys   2   2   3   3   17   Key Staff   1.37     C Geologist/Fir.   Agys   2   2   3   3   17   Key Staff   1.37     C Geologist/Fir.   Agys   2   2   3   3   17   Key Staff   1.37     C Geologist/Fir.   Agys   2   2   3   3   17   Key Staff   1.37     C Geologist/Fir.   Agys   2   2   3   3   17   Key Staff   1.37     C Geologist/Fir.   Agys   2   2   3   3   17   Key Staff   1.37     C Geologist/Fir.   Agys   2   2   3   3   3   17   Key Staff   1.37     C Geologist/Fir.   Agys   2   2   3   3   3   3   3   3     C Geologist/Fir.   Agys   2   2   3   3   3   3   3   3     C Geologist/Fir.   Agys   2   2   3   3   3   3   3   3     C Geologist/Fir.   Agys   2   2   3   3   3   3   3   3     C Geologist/Fir.   Agys   2   2   3   3   3   3   3     C Geologist/Fir.   Agys   2   2   3   3   3   3   3     C Geologist/Fir.   Agys   2   2   3   3   3   3   3     C Geologist/Fir.   Agys   2   2   3   3   3   3   3     C Geologist/Fir.   Agys   2   2   3   3   3   3   3     C Geologist/Fir.   Agys   2   3   3   3   3   3   3     C Geologist/Fir.   Agys   3   3   3   3   3   3   3     C Geologist/Fir.   Agys   3   3   3   3   3   3   3     C Geologist/Fir.   Agys   3   3   3   3   3   3   3   3     C Geologist/Fir.   Agys   3   3   3   3   3   3   3   3   3	2		days	3	4	10	10	5	32	Key Staff	1.07
Specialist   Associac   Associa		Biodiversity/ Forestry									
Scio-Economist   days   3   3   15   15   15   15   15   15	3	230	days	3	3	8	10	5	29	Key Staff	0.97
Geologist/Err   Geologist/Frr   Geologist/Frr   Geologist/Frr   Geologist/Hydrologist   Geologist   Geologist/Hydrologist   Geologist/Hydrologist   Geologist	4		days	3	3	15	15	5	41	Key Staff	1.37
Gill Expert   days   2   2   3   3   3   12   Project Specific   0.40		Geologist/Er.								Key Staff (Optional-	
GIS Expert   days   2   2   5   5   3   17   Key Staff   0.57	5		days	2	2	3	3	2	12	Project Specific)	0.40
1   Legal Expert   days   0   2   0   5   2   2   9   Non Key Staff   0.30	9		days	2	2	5	5	3	17	Key Staff	0.57
8   Language Expert   days   8   12   30   30   0   0   0   0   0   0   0	1		days	0	2	0	5	2	6	Non Key Staff	0.30
9 Assistant         days         8         12         30         0         80         Non Key Staff         2.67           Section B: Reimbursable         12 Faujoments         13 Mon Key Staff         2.67           1 Travel Cost         1 Travel Cost         7% of Section A         7% of Section A         7% of Section A         2 Sub-Total B           3 Laboratory Analysis         1 A Stationary         1 News Paper Notice and Allowances         1 News Paper Notice Publication         LS         Sub-Total B           1 News Paper Notice Publication         LS         Sub-Total B         Sub-Total B         Sub-Total C           2 Public Hearing and Other Expenses         LS         Sub-Total C         Sub-Total C           2 Public Hearing and Other Expenses         LS         Sub-Total C           Actor every addition of headwork/water abstraction infrastructure 5% of input required (human days) shall be added to the estimate	8	10000	days	0	2	0	5	2	6	Non Key Staff	0:30
Section B: Reimbursable  1 Travel Cost 2 Equipments 3 Laboratory Analysis 3 Laboratory Analysis 4 Stationary Section C: Notice and Allowances 1 News Paper Notice Publication 2 Public Hearing and Other Expenses 2 Public Hearing and Other Expenses 3 Laboratory Manalysis 4 Stationary Section A 5 Section A 7% of Section	9		days	8	12	30	30	0	80	Non Key Staff	2.67
1 Travel Cost     15 % of Section A       2 Equipments     7% of Section A       3 Laboratory Analysis     7% of Section A       4 Stationary     10% of Section A       2 Public Hearing and Other Expenses     LS       2 Public Hearing and Other Expenses     LS       For every 1 MW increase in capacity above 50 MW, additional input shall increase by a factor (Capacity/50)**O.6       For every addition of headwork/water abstraction infrastructure 5% of input required (human days) shall be added to the estimate											Sub-Total A
1 Travel Cost     15 % of Section A       2 Equipments     7% of Section A       3 Laboratory Analysis     7% of Section A       4 Stationary     7% of Section A       5 Section C: Notice and Allowances     10% of Section A       5 Section C: Notice and Allowances     LS       2 Public Hearing and Other Expenses     LS       For every 1 MW increase in capacity above 50 MW, additional input shall increase by a factor (Capacity/50)*0.6       For every addition of headwork/water abstraction infrastructure 5% of input required (human days) shall be added to the estimate       For every addition of headwork/water abstraction infrastructure 5% of input required (human days) shall be added to the estimate	Se	tion B: Reimbursable									
2 Equipments 7% of Section A 7% of Section A 7% of Section A 10% of Sectio	1	Travel Cost					15 9	% of Section A			
10% of Section A   10% of Sect	7						7%	of Section A			
Section A   Section A   Section A   Section A   Section C   Sect	3						7%	S of Section A			
Section C: Notice and Allowances    News Paper Notice Publication   LS   News Paper Notice Publication   LS   Public Hearing and Other Expenses   LS   Sub-Total C	4						109	% of Section A			
1 News Paper Notice Publication 2 Public Hearing and Other Expenses 2 Public Hearing and Other Expenses 3 Exb-Total C Total A+B+C=D Total A+B+	Se	tion C: Notice and Allowan	ces								Sub-Total B
2 Public Hearing and Other Expenses  Sub-Total C  For every 1 MW increase in capacity above 50 MW, additional input shall increase by a factor (Capacity/50)**.0.6  For every addition of headwork/water abstraction infrastructure 5% of input required (human days) shall be added to the estimate  9 and 9 birector General	1	News Paper Notice Publica	ation					SI			
For every 1 MW increase in capacity above 50 MW, additional input shall increase by a factor (Capacity/50)*0.6  For every addition of headwork/water abstraction infrastructure 5% of input required (human days) shall be added to the estimate  9	7	Public Hearing and Other I	Expense	S				SI			
For every 1 MW increase in capacity above 50 MW, additional input shall increase by a factor (Capacity/50)**0.6  For every addition of headwork/water abstraction infrastructure 5% of input required (human days) shall be added to the estimate  9											Sub-Total C
For every 1 MW increase in capacity above 50 MW, additional input shall increase by a factor (Capacity/So)''0.6  For every addition of headwork/water abstraction infrastructure 5% of input required (human days) shall be added to the estimate  9											Total A+B+C=D
For every addition of headwork/water abstraction infrastructure 5% of input required (human days) shall be added to the estimate	Fo	every 1 MW increase in cap	pacity at	100 Sove	MW, addi	tional inp	ut shall in	crease by a fac	tor (Capacity/5	9).0.6	
Director General	Fo	every addition of headwor	k/water	abstract	ion infras	tructure 5	5% of inpu	it required (hu	man days) shall	be added to the estim	ate
	CX.		3/2	· J	7 1	NO V	. ,	and the state of t	Directo	T General	nolegin and a second

10.0 IEE Study of Transmission Line

Name   Perparation   Preparation   Prepara				IEE Stu	dy of Trai	nsmission	Line Pro	IEE Study of Transmission Line Project (TL Length≤5 Km, ROW≤15m)	S5 Km, ROWS1	5m)	
Remarks   Person Mon	Se	ction A: Human Resource		Prepa	oR ration	Dra	ft	Final Report			Total lange
22 Key Staff 14 Key Staff 12 Key Staff 12 Key Staff 13 Key Staff 14 Non Key Staff 15 Non Key Staff 16 Sub-Total 17 Sub-Total 18 Sub-Total 19 Sub-Total 10 Sub-Total 10 Sub-Total 10 Sub-Total 11 Sub-Total 12 Sub-Total 13 Sub-Total 14 Key Staff 15 Sub-Total 16 Sub-Total 17 Sub-Total 18 Sub-Total 19 Sub-Total 19 Sub-Total 10 Sub-Tot	S Z	Expertise	Unit	Field	Desk	Field	~ ×		Total Person Days	Remarks	Person Month
14 Key Staff 15 Key Staff 16 Key Staff 17 Non Key Staff 18 Non Key Staff 19 Non Key Staff 10 Non Key Staff 10 Non Key Staff 11 Sub-Total 12 Sub-Total 13 Sub-Total 14 Key Staff 15 Non Key Staff 16 Sub-Total 17 Sub-Total 18 Sub-Total 19 Sub-Total 19 Sub-Total 10 Sub-Total 10 Sub-Total 10 Sub-Total 11 Sub-Total 12 Sub-Total 13 Sub-Total 14 Key Staff 15 Sub-Total 16 Sub-Total 17 Sub-Total 18 Sub-Total 19 Sub-Total 10 Sub-Total 10 Sub-Total 10 Sub-Total 10 Sub-Total 11 Sub-Total 11 Sub-Total 12 Sub-Total 13 Sub-Total 14 Key Staff 15 Sub-Total 16 Sub-Total 17 Sub-Total 18 Sub-Total 18 Sub-Total 19 Sub-Total 19 Sub-Total 19 Sub-Total 10 Sub-Total 11 Sub-Total 11 Sub-Total 12 Sub-Total 13 Sub-Total 14 Sub-Total 16 Sub-Total 17 Sub-Total 18 Sub-Total 19 Sub-Total 19 Sub-Total 19 Sub-Total 10 Sub-	1		days	. 2	2	9	8				10.00
14 Key Staff  Rey Staff (Optional- 12 Project Specific) 13 Key Staff 7 Non Key Staff 14 Non Key Staff 15 Non Key Staff 16 Sub-Total 17 Sub-Total 18 Sub-Total 19 Sub-Total 10 Sub-Total 10 Sub-Total 10 Sub-Total 10 Sub-Total 10 Sub-Total 11 Sub-Total 12 Sub-Total 13 Sub-Total 14 Key Staff 15 Sub-Total 16 Sub-Total 17 Sub-Total 18 Sub-Total 18 Sub-Total 19 Sub-Total 19 Sub-Total 19 Sub-Total 10 Sub-Total 10 Sub-Total 10 Sub-Total 11 Sub-Total 11 Sub-Total 11 Sub-Total 12 Sub-Total 13 Sub-Total 14 Sub-Total 15 Sub-Total 16 Sub-Total 17 Sub-Total 18 Sub-Total 19 Sub-Total 19 Sub-Total 19 Sub-Total 10 Sub-Total 11 Sub-Total 11 Sub-Total 12 Sub-Total 13 Sub-Total 14 Sub-Total 15 Sub-Total 16 Sub-Total 17 Sub-Total 18 Sub-Total 19 Sub-Total 19 Sub-Total 10	,		Such	C	-						47.0
Key Staff (Optional-   Rey Staff   Sub-Total   Sub-T	3		days	2	7	4 4	2	2	17		0.40
13 Key Staff 7 Non Key Staff 14 Non Key Staff 15 Non Key Staff 16 Sub-Total 17 Sub-Total 18 Sub-Total 19 Sub-Total 10 Sub-Total	4		days	2	2	4	2	2	12		040
Non Key Staff  Non Key Staff  Sub-Total  Sub-Total  Sub-Total  Sub-Total  Total A+B+	5	_	days	2	2	4	4	1	13	Key Staff	0.44
Non Key Staff Sub-Total Sub-Total Sub-Total Sub-Total Sub-Total Total A+B+	9	2000	days	0	1	0	4	2	7	Non Key Staff	0.24
Non Key Staff Sub-Total Sub-Total Sub-Total Sub-Total Total A+B+6	7	Language Expert	days	0	2	0	4	2	00		0.27
9.0	8	_	days	2	4	12	16	8	42	4 10000	1.40
9.0	1						W. Indiana	The state of the s			Sub-Total A
0.6	Se	ction B: Reimbursable									
9.0	1	Travel Cost					159	% of Section A			
9.0	7				The Real Property lies		7%	of Section A	The second second		
9.0	3	Laboratory Analysis					7%	of Section A			
9.0	4	Stationary					10%	6 of Section A			
9.0	Sec	ction C: Notice and Allowa	ances								Sub-Total B
9.0	1	News Paper Notice Publ	ication			Chiana Constant	The second	SI			
9.0	2	Public Hearing and Othe	r Expen	ses				LS			
9.0											Sub-Total C
For Transmission Line above 5 km length the total person input shall increase by a factor (Length/5)^0.6  For the width above 15m right of way, the total person input shall increase by a factor (RoW/15)^0.1											Total A+B+C=D
For the width above 15m right of way, the total person input shall increase by a factor (RoW/15)^0.1	For	Transmission Line above	5 km le	ngth the t	otal pers	on input s	hall incre	ease by a factor	(Length/5)^0.6		
	For	the width above 15m rigi	ht of wa	y, the tot,	al person	input sha	Il increas	se by a factor (R	oW/15)^0.1		



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11.0 EIA Study of Transmission Line

	Envir	ronment	al Impac	t Assessr	nent of T	ransmissi	on Line Project	(TL Length≤10	Environmental Impact Assessment of Transmission Line Project (TL Length≤10 Km, Row≤15m)	
Sec	Section A: Human Resource		SD/ Prepa	SD/ToR Preparation	Dr	Draft Preparation	Final Report			T-04-1   1-0-0
SN	Expertise	Unit	Field	Desk	Field	Desk	Desk Work	Total Person	Remarks	Dorger Manath
1	Environmentalist (TL)	days	4	9	15	15	2	AS AS	(6) Care	reison Month
								2		1.50
7		days	3	3	8	10	5	29	Key Staff	0.97
3	200	days	3	3	15	15	5	41	Key Staff	1.37
4		days	3	3	12	12	5	35	Key Staff	1.17
5	Geologist/Er. Geologist/Hydrologist	davs	1	1	-	•			2000	170
9	10000	days	2	2	4 60	4 6	7	17		0.17
7	Legal Expert	days	0	2	0	2	2	6		0.40
8	Language Expert	days	0	2	0	5	2	6		0.30
6	Assistant	days	8	12	30	30	0	80		2.67
										Sub-Total A
Sec	Section B: Reimbursable									
1	Travel Cost					15 9	15 % of Section A			
2	Equipments					7%	7% of Section A			
3	Laboratory Analysis					7%	7% of Section A			
4	Stationary					10%	10% of Section A			
Sec	Section C: Notice and Allowances	nces								Sub-Total B
1	News Paper Notice Publication	ation					SJ			
2	Public Hearing and Other Expenses	Expense	Si				SI			
										Sub-Total C
										Total A+B+C=D
Por	For I ransmission Line above 10 km length the total person input shall increase by a factor (Length/10) 0.6	10 km ler	gth the t	total pers	on input	shall incre	ase by a factor	(Length/10)^0.6		
For	For the width above 15m right of way, the total person input shall increase by a factor (RoW/15)^0.1	t of way,	the tota	l person i	nput shal	lincrease	by a factor (Ro	W/15)^0.1		
	1		-						ARE BO	

100		Social Su	rivey of Wa	ater Resou	Social Survey of Water Resources and Irrigation Projects (≤100 HH)	ojects (<100 HH)		
200			Draft Preparation	Draft	Final Report Preparation			
Sect	Section A: Human Resource		Number	Number of Days	Number of Days			
SN	Expertise	Unit	Field	Desk	Desk	Total Person Days	Remarks	Person Month
		100			•			
1	1 Socio-Economist	Household	2	3	2	7	7 Key Staff	0.23
	Assistant/Social	100	1000000					
2	2 Mobilizer	Household	7	4	0	11	11 Non Key Staff	0.37
								Sub Total A
Sec	Section B: Travel, Logistics, Stationary	ationary						
7	1 Travel				15% of Section A	1		
2	2 Stationary				10% of Section A	1		
Sec	Section C: Stakeholders Meeting	ng						Sub Total B
7	1 Discussion with stakeholders	lers			10% of Section A	-		
								Sub Total C
								Total A+B+C=D
For	For every HH above 100 HH the estimate shall increase by a factor (HH/100)^0.8	e estimate shall	increase by	a factor (	HH/100)^0.8			
		The second secon		日本の一大学の大学の大学の大学の	日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日	THE RESIDENCE AND PARTY OF THE	STATE OF THE PERSON NAMED IN COLUMN NAMED IN C	

13.0 Forest Survey and Inventory

		Forest 5	Survey an	d Inventor	Forest Survey and Inventory (Forest Area < 1 hectare)	hectare)			_
			Dr	Draft	Final Report				_
			Prepa	Preparation	Preparation				
Sect	Section A: Human Resource		Number	Number of Days		A SECTION OF THE PERSON OF THE			_
SN	Expertise	Number of Staffs	Field	Desk		Total Pérson Davs Remarks	Remarks	Person Month	
1	Environment/Forestry/Botanist	1	4	1	2	7	Key Staff	0.23	-
2	Assistant	2	4	1	0	10	10 Non Key Staff	0.33	-
								Sub Total A	1
Secti	Section B: Travel, Logistics, Stationary								_
1	1 Travel				10 % of Section A				_
2	2 Local Transportation	Townson or other Persons			5% of Section A				_
3	3 Stationary				10% of Section A				_
Secti	Section C: Stakeholders Meeting				The set Section 2			Sub Total B	1
1	1 Discussion with DFO/CF/NP				10% of total	10% of total of Section Total Input			1
								Sub Total C	
					STREET, STREET, STREET, ST.			Total A+B+C=D	
For e	For every hectare of forest aree above 1 hectare the estimate shall increase by a factor (Hectare/1)^0.7	1 hectare the	estimate	shall incr	ease by a factor (H	lectare/1)^0.7			

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# 14.0 General Environment Survey/Monitoring/Auditing

		-		5	0			
		Ge	neral Envi	ronmental	General Environmental Study/Monitoring/Auditing (One Project)	(One Project)		
Sec	Section A: Human Resource		Draft Pre	eparation	Draft Preparation Final Report Preparation			
SN	Expertise	Unit	Field	Desk Work		Total Person Davs Remarks	Remarks	Person Month
1	Environment Expert	days	7	8	3	18	Key Staff	09'0
2	Water Resources Expert	days	5	5	1 2	12		0.40
3	Biodiversity/Forestry Expert	days	5	5	2	12	Key Staff	0.40
4	Socio-Economic Expert	days	5	5	2	12	Key Staff	0.40
2	Assistant	dave	10	-	C	Ç	Non Key	000
			2			OT	Stall	Cub Total A
Sec	Section B: Travel, Logistics, Stationary, Lab Work	nary, La	b Work					Sub Total A
1	Travel Cost				15 % of Section A			
2	Equipments				7% of Section A			
3	Laboratory Analysis				7% of Section A		1000000000000000000000000000000000000	200
4	Stationary	100			10% of Section A			
Sec	Section C: Stakeholders Meeting							Sub Total B
1	Discussion with Stakeholders				10% of Section A			
								Sub Total C
-								Total A+B+C=D

### 15.0 General Provisions

SN	General Provisions
514	In case of donor funded projects additional experts and human input may be incorporated as per
1	
-	The cost for public notice and public hearing shall be added as per the requirements of the terms
2	a de la constanta de la consta
	the stimate shall be done by taking 100% of the number
	input of main purpose and adding 70 % of human input from estimate for each additional
3	POURDE
	General scope of work for BES, IEE and EIA shall be as per Environment Protection Act, 2076 and
4	Environment Protection Rules, 2077.
5	Complete census shall be considered for household survey and forest survey/inventory.
6	Qualification of experts shall be as per Environment Protection Rules, 2077.
	Study period for 1. BES shall be of minimum 4 months, 2. IEE shall be of minimum 6 months, EIA
7	shall be of minimum 1 year.
VE S	Study period-for household survey, forest survey/inventory and environment monitoring and
8	auditing shall be of minimum 3 months.
	If forest area exceeds than 25 hectare, 75% of the human input shall be added as per the estimate
9	for forest survey and inventory above 25 hectare.
TRANS	If household number exceeds than 500, 75% of the human input shall be added as per the
10	estimate for household survey above 500 household.
	70% of the total cost estimate for BES, IEE and EIA shall be allocated for updating BES/IEE and
11	Supplementary EIA study report.
	The total person days of expert's input may be decreased depending upon the scope of work, but
12	shall not be increased than set values.
13	The input of optional key expert shall be considered only if required by the specific project.
	The cost estimate for BES/IEE/EIA study for category other than listed above can be adopted from
14	the above mentioned cost estimate of most relevant nature of the work.
15	Value added tax and contingency shall be added to the estimate as per prevailing rules.

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### 16.0 General Scope of Work

### 16.1 Scope of Work for Prior Consent



- Review of DPR/DFS/BES/IEE/EIA and other published and unpublished reports pertaining to proposal.
- Field investigation and collection of physical, chemical, biological, social and cultural data of the proposal.
- Preparation and submission of report for Prior Consent (permission) for environmental study in the format prescribed by MoEWRI/MoFE/DNPWC/DoFSC or concerned agency.
- Consultation with concerned approving authority, correction/presentation (if necessary).

### 16.2 Scope of Work for BES

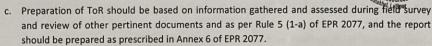
- a. General: To prepare terms of reference (ToR) and Brief Environmental Study (BES) report and present the report at concerned ministry/authority on behalf of the proponent as per Environment Protection Act (2076) and Environment Protection Rules (2077) and other guiding document(s), manual(s) published by authorized entity in the context.
- b. Specific
  - Review all the existing documents such as Detailed Feasibility Study Report (DFSR),
     Detailed Project Report (DPR), and Master Plan (MP) pertaining to proposal impact
  - Briefing and debriefing meeting with the proponent regarding proposal.
  - Area delineation, categorization of Zone of Influence (ZoI), Indirect Impact Zone(IIZ),
     Direct Impact Zone (DIZ), depiction of Area Delineation on map indicating all the impact zones.
  - Analysis of land use, geology and seismicity by preparing/depicting appropriate map.
  - Complete primary/secondary information regarding air, water, noise, demography, economy and culture of all the affected people of the direct impact zone.
  - Public consultation with proposal affected population, collection of recommendation/suggesting from all concerned stakeholders.
  - Publication of notices regarding public consultation in local/national daily and dissemination of information via various media as guided by EPR 2077.
  - Layout map for proposal components, labor camp site, stock piling sites, batching plants site.
  - Depiction of forest area, cultural and archeologically significant site in map if it falls under Zol.
  - Collection of complete information regarding land acquisition by the project.
     Preparation of cadastral map if necessary.

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d. After the approval of ToR by concerned ministry, based on approved ToR the consultant is required to prepare a BES report. The process of BES study should follow as per Rule 5, 6 and 7 of EPR 2077, and the report should be prepared as prescribed in Annex 10 of EPR 2077.

(Note: Depending upon the nature and type of proposal the above scope of work can be modified accordingly)

### 16.3 Scope of Work for IEE

- a. General: To prepare scoping document (SD), terms of reference (ToR) and Environmental Impact Assessment Report and present the report at concerned ministry/authority on behalf of the proponent as per Environment Protection Act (2076) and Environment Protection Rules (2077) and other guiding document(s), manual(s) published by authorized entity in the context.
- b. Specific
  - Review all the existing documents such as Detailed Feasibility Study Report (DFSR),
    Detailed Project Report (DPR), Master Plan (MP), Geotechnical Investigation Report,
    Environmental and Social reports published by Central, Provincial and Local
    Governments, Seismic Reports, Climate Change and Natural Disaster Reports pertaining
    to proposal impact zone.
  - Briefing and Debriefing meeting with the proponent regarding proposal.
  - Area delineation, categorization of Zone of Influence (ZoI), Indirect Impact Zone(IIZ),
    Direct Impact Zone (DIZ), depiction of Area Delineation on map indicating all the impact
    zones.
  - Preparation of map using cadastral map and digitization of area occupied by proposal components permanently and temporarily.
  - Analysis of land use, geology and seismicity by preparing/depicting appropriate map.
  - Acquisition of air quality (PM<sub>10</sub>, PM<sub>2.5</sub>, CO,TSP, Wind Speed and Direction), water quality (TDS, DO, Conductivity, Total Nitrogen, pH, E.Coli, Arsenic), Equivalent Noise Level and soil quality data (NPK) relevant to proposal
  - Complete primary information regarding demography, economy and culture of all the
    affected people of the direct impact zone. Information from secondary source for
    denizens of zone of influence.
  - Public Consultation with proposal affected population, collection of recommendation/suggesting from all concerned stakeholders. Publication of notices regarding public consultation in local/national daily and dissemination of information via various media as guided by EPR 2076.

 Layout map for proposal components, labor camp site, stock piling sites, batching plants site.

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- Depiction of forest area, cultural and archeologically significant site in map if it falls under 70l.
- Information regarding other infrastructure such as Strategic Road Network, Dams, Transmission Lines, Major Irrigation Canal, Special Economic Zones, International Boundary if it falls under Zol.
- Collection of complete information regarding land acquisition by the project using government issued cadastral maps.
- c. Preparation of ToR should be based on information gathered and assessed during field investigation and review of related documents and as per Rule 5 (1-b) of EPR 2077, and the report should be prepared as prescribed in Annex 7 of EPR 2077.
- d. After the approval of ToR by concerned ministry, based on approved ToR the consultant is required to prepare an IEE report. The process of IEE study should follow as per Rule 7 (5-b) of EPR 2077, and the report should be prepared as prescribed in Annex 11 of EPR 2077.

(Note: Depending upon the nature and type of proposal the above scope of work can be modified accordingly)

### 16.4 Scope of Work for EIA

- a. General: To prepare scoping document (SD), terms of reference (ToR) and Environmental Impact Assessment Report and present the report at concerned ministry/authority on behalf of the proponent as per Environment Protection Act (2076) and Environment Protection Rules (2077) and other guiding document(s), manual(s) published by authorized entity in the context.
- b. Specific
  - Review all the existing documents such as Detailed Feasibility Study Report (DFSR),
    Detailed Project Report (DPR), Master Plan (MP), Geotechnical Investigation Report,
    Environmental and Social reports published by Central, Provincial and Local
    Governments, Seismic Reports, Climate Change and Natural Disaster Reports pertaining
    to proposal impact zone.
  - · Briefing and Debriefing meeting with the proponent regarding proposal.
  - Area delineation, categorization of Zone of Influence (ZoI), Indirect Impact Zone(IIZ),
    Direct Impact Zone (DIZ), depiction of Area Delineation on map indicating all the impact
    zones.
  - Preparation of map using cadastral map and digitization of area occupied by proposal components permanently and temporarily.
  - · Analysis of land use, geology and seismicity by preparing/depicting appropriate map.
  - Acquisition of air quality (PM<sub>10</sub>, PM<sub>2.5</sub>, CO,TSP, Wind Speed and Direction), water quality (TDS, DO, Conductivity, Total Nitrogen, pH, E.Coli, Arsenic), Equivalent Noise Level and soil quality data (NPK) relevant to proposal
  - Complete primary information regarding demography, economy and culture of all the affected people of the direct impact zone. Information from secondary source for denizens of zone of influence.
  - Public Consultation with proposal affected population, collection of recommendation/suggesting from all concerned stakeholders. Publication of notices

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regarding public consultation in local/national daily and dissemination of information via various media as guided by EPR 2076.

- Layout map for proposal components, labor camp site, stock piling sites, batching plants site.
- Depiction of forest area, cultural and archeologically significant site in map if it falls under Zol.
- Information regarding other infrastructure such as Strategic Road Network, Dams, Transmission Lines, Major Irrigation Canal, Special Economic Zones, International Boundary if it falls under Zol.
- Collection of complete information regarding land acquisition by the project using government issued cadastral maps.

### c. Scoping Document

The Scoping is an essential step of determining the range of issues to be analyzed during the EIA study of the proposal. It helps to know the issues and the scope of the works to be dealt with during the EIA report preparation. The Scoping process involves the following tasks:

- · Involvement of the interested parties and the affected population;
- Identification of significant and/ or priority issues to be examined/ assessed during the EIA report preparation;
- · Identification and selection of alternatives; and
- Providing input for the determination of the ToR for further study.
- Identification of other pertinent issues
- Area delineation, Zol, IIZ and DIZ

The process of scoping should follow as per Rule 5 (1) of EPA 2076; Rule 4 of EPR 2077, and the report should be prepared as prescribed in Annex 5 of EPR 2077.

d. Preparation of Terms of Reference (ToR)

Preparation of ToR should be based on information gathered and assessed during scoping and as per Rule 5 (1) of EPA 2076; Rule 5 (1-c) of EPR 2077, and the report should be prepared as prescribed in Annex 8 of EPR 2077.

e. Preparation of EIA Report

After the approval of SD and ToR by MoFE, based on approved ToR the consultant is required to prepare an EIA report. The process of EIA study should follow as per Rule 5 of EPA 2076; Rule 7 (5-c) of EPR 2077, and the report should be prepared as prescribed in Annex 12 of EPR 2077.

(Note: Depending upon the nature and type of proposal the above scope of work can be modified accordingly)

### 16.5 Scope of Work for HH Survey

Preparation and approval of data collection checklist by the proponent.

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- Complete count of the total population under question and collection of information according to approved checklist.
- · Consolidation and analysis of data.
- · Preparation and presentation of report.
- · Approval of report by the proponent.

### 16.6 Scope of Work for Forest Survey/Inventory

- Preparation and approval of forest survey and inventory checklist by the proponent.
- Complete count and enumeration of total species of the proposal area as per the methodology approved by authorized entity of government of Nepal.
- Consolidation and analysis of data.
- Preparation and presentation of report.
- · Approval of report by the proponent.

### 16.7 Scope of Work for General Environmental Survey/Monitoring/Auditing

- Review all the existing documents such as Detailed Feasibility Study Report (DFSR), Detailed
  Project Report (DPR), Master Plan (MP), Geotechnical Investigation Report, Environmental and
  Social reports published by Central, Provincial and Local Governments, Seismic Reports, Climate
  Change and Natural Disaster Reports, approved BES/IEE/EIA reports pertaining to proposal area.
- Selection of indicators/parameters for Environmental Survey/Monitoring/Auditing.
- Discussion with proponent and finalization of indicators/parameters for study.
- · Approval of checklist and methodology by the proponent.
- Field visit, data collection, discussion with local stakeholders.
- Discussion with proponent regarding findings.
- Consolidation of data acquired and preparation of reports.
- Presentation and approval of report by the proponent.

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