

Sample Format for GSS Land Assets

GSS:- 132/33kV GSS BELSAND

Sl. No.	Location	
1	Name of GSS	132/33kV GSS BELSAND
2	Located at(Name of locality)	Belsand
3	Block/Prakhanda	Belsand
4	Police Station(Thana)	Belsand
5	Sub-Division	Belsand
6	District	Sitamarhi
7	Transmission Division	Sitamarhi
8	Transmission Circle	Muzaffarpur
9	GPS Co-ordinates	Latitude-26.44 Longitude-85.40
10	LAND DETAILS	
11	Initial Area(in Acre)	3 Acre
12	Whether it was	
	(i)A Government Land(State type GM or)	Government Land
	(ii)Private Land	
13	If Private Land ,Whether	
	(i)Purchased	
	(ii)Aquired	
	(iii)Leased Land	
14	Year Of Purchase/Aquired	
15	Whether Mutation Completed	
16	Cost of the Land(At the time of Procurement)	
17	Whether More Land is Purchased/Aquired/Leased in GSS extension Work? If Yes ,give details.	No
18	Area of extra land for the GSS	
19	Cost	
20	Year of Purchase/Lease of extra land	
21	Total Area at Present	3 Acre
	Details of land(Khata/Khesara)	
	Thana No.	
	Name of Municipality/Nagar Parishad etc.	
	Ward No./Circle No./Holding No.	
	Amount of early land related taxes	
	Taxes Clear Up to	
22	Land record available with	

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Details of Other Substation Equipment

Sl. No.	Name of Equipment		Quantity	Make	Date of Commissioning
1	Battery Charger	(a)250V Set I	1	Chloride Power Systems & Solutions Ltd.	2016
		(b)250V Set II	1	Chloride Power Systems & Solutions Ltd.	2016
2	ACDB		1	Asian Switchgear Private Limited.	2016
3	DCDB	(a)250V	1	Asian Switchgear Pvt. Ltd.	2016
		(b)48V	1	Asian Switchgear Pvt. Ltd.	2016
4	Battery Bank	(a)250V SET I	1	EXIDES Industries Ltd.	2016
		(b)250V SET II	1	EXIDES Industries	2016
5	DG SET		1	Kirloskar Oil Engines Ltd.	2016
6	PLCC Equipment	(1) Isolator	NA	NA	NA
		(2) Battery Charger	1	Chloride Power System & Solution Ltd.	2016
		(3) Panel	1	CGL	Not Commissioned
		(4) Telephone	1	-	-
7	Hydrant System with pipe arrangement		NA	NA	NA
8	Fire Fighting Equipment		4	Safex Fire Services Limited	-

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		(b) 4.5kg Cartridge type	4	Safex Fire Services Limited	-
		(c) 22.5kg Co2 type	2	Safex Fire Services Limited	-
		(d) 22kg Cartridge type	2	Safex Fire Services Limited	-
9	Earthing Rods		6	-	-
10	Tools & Tackles		NA	NA	-
11	Testing Equipments	(a) 5KV Digital insulation tester	1	Motwane Manufacturing Company Ltd.	-
		(b) Digital Multimeter	1	Motwane Manufacturing Company Ltd.	-
		(c) BDV Test Kit	1	Motwane Manufacturing Company Ltd.	-
12	Safety Gear	Safety Gloves	1 Pair	-	-
		Gum boot	1 Pair	-	-
		Helmet	1	-	-
13	SST	(a) SST No. 1	1	TBEA	
		(b) SST No. 2	1	East India Udyog Limited	
14	Spare Hardware fittings		NA	NA	NA

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ASG/TSD/BEUSANP

Details of Existing Equipments

Name of Circle :- Muzaffarpur

Name of GSS:-132/33kV GSS BELSAND

Sl. No.	Voltage Level	Name of Bay	Equipment Name	Quantity	Make	Date of Commissioning
1	132kV Line Bay	132kV SKMCH Bay	Line control & relay panel with Distance Protection & O/C & E/F Protection 3 phase Circuit Breaker 1 Phase CVT LA 1 Phase Current Transformer 3 phase Isolator with Earth Switch	1 3 3 3 3	SEL ABB GGL SCT Limited Faraday Electricals Pvt. Ltd.	08.08.2016
2	132kV Line Bay	132kV R.saidpur Bay	Line control & relay panel with Distance Protection & O/C E/F Protection 3 phase Circuit Breaker 1 Phase CVT LA 1 Phase Current Transformer 3 phase Isolator with/without Earth Switch	1 3 3 3 3	SEL ABB GGL SCT Limited Faraday Electricals Pvt. Ltd.	08.08.2016
3	132/33kV Transformer Bay(HV)	Power Transformer No. I	Transformer Control & relay panel with Differential Protection & O/C E/F Protection 3 phase Circuit Breaker LA	1 3	SEL ABB GGL	08.08.2016

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			1 Phase Current Transformer 3 phase isolator without Earth Switch	3	SCT Limited Faraday Electricals Pvt. Ltd.	
4	132/33kV Transformer Bay(HV)	Power Transformer No. II	Transformer Control & relay panel with Differential protection & O/C E/F protection		SEL	10.01.2017
			3 phase Circuit Breaker	1	ABB	06.08.2016
			LA	3	GGL	
			1 Phase Current Transformer	3	SCT limited	
			3 phase isolator without Earth Switch	3	Faraday Electricals Pvt. Ltd.	
5	132/33kV Transformer Bay(LV)	Incomer No. I	Transformer Control & relay panel with O/C & E/F protection	1	SEL	08.08.2016
			3 phase Circuit Breaker	1	Schneider electric	
			LA	3	GGL	
			1 Phase Current Transformer	3	SCT limited	
			3 phase isolator without Earth Switch	3	Faraday Electricals Pvt. Ltd.	
6	132/33kV Transformer Bay(LV)	Incomer No. II	Transformer Control & relay panel with O/C E/F Protection	1	SEL	10.01.2017
			3 phase Circuit Breaker	1	Schneider electric	
			LA	3	GGL	
			1 Phase Current Transformer	3	SCT limited	
			3 phase isolator without Earth Switch	3	Faraday Electricals Pvt. Ltd.	
7	132kV Bus		Line control & relay panel with Distance	1	SEL	08.08.2016

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	Coupler		protection & O/C E/F protection	1	ABB	
			3 phase Circuit Breaker	3	SCT Limited	
			1 Phase PT	NA	NA	NA
			1 Phase Current Transformer	3	SCT Limited	
			3 phase isolator without Earth Switch	3	Faraday Electricals Pvt. Ltd.	
8	33kV Feeder	33kV Belсанд Feeder	Line control & relay panel with O/C & E/F protection	1	SEL	22.08.2016
			3 phase Circuit Breaker	1	Schneider electric	
			LA	3	CGL	
			1 Phase Current Transformer	3	SCT Limited	
			3 phase isolator with Earth Switch	3	Faraday Electricals Pvt. Ltd.	
9		33kV Future Bay I	Line control & relay panel with O/C E/F protection	1	SEL	11.01.2017
			3 phase Circuit Breaker	1	Schneider electric	
			LA	3	CGL	
			1 Phase Current Transformer	3	SCT Limited	
			3 phase isolator with Earth Switch	3	Faraday Electricals Pvt. Ltd.	
10		33kV Future Bay II	Line control & relay panel with O/C E/F protection	1	SEL	11.01.2017
			3 phase Circuit Breaker	1	Schneider electric	
			LA	3	CGL	
			1 Phase Current Transformer	3	SCT Limited	
			3 phase isolator with Earth Switch	3	Faraday Electricals Pvt. Ltd.	

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11		33kV Future Bay III	Line control & relay panel with O/C & E/F protection	1	SEL	11.01.2017
			3 phase Circuit Breaker	1	Schneider electric	
			LA	3	CGL	
			1 Phase Current Transformer	3	SCT Limited	
			3 phase isolator with Earth Switch	3	Faraday Electricals Pvt. Ltd.	
12	33kV Bus Coupler Bay		Line control & relay panel with O/C E/F protection	1	SEL	08.08.2016
			3 phase Circuit Breaker	1	Schneider electric	
			1 Phase PT	3	SCT Limited	
			LA	NA	NA	NA
			1 Phase Current Transformer	3	SCT Limited	
			3 phase isolator without Earth Switch	3	Faraday Electricals Pvt. Ltd.	


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Details of existing equipment


Name of Circle- Transmission Circle, Muzaffarpur,

Name of GSS- 132/33 KV GSS, Motihari


Sl. No.	Name of Bay	Equipment Name	Quantity	Make	Date of Commissioning
1.	132 KV Motipur-Motihari S/C bay	Line control & relay panel with distance protection & O/C & E/F protection	01	Schweitzer Engineering Laboratories	2018
		3-phase Circuit Breaker	01	CGL	
		1-ph CVT	01	-	
		LA	03	Lamco	
		1-ph current transformer	03	SCT LTD. limited	
		3-ph isolator with/without earth switch	03	Fardey	
2.	132 KV Motihari-Bettiah S/C Bay	Line control & relay panel with distance protection & O/C & E/F protection	01	Schweitzer Engineering Laboratories	2018
		3-phase Circuit Breaker	01	Siemens	
		1-ph CVT	02	Hindustan Brow Boweri	
		LA	03	Lamco	
		1-ph current transformer	03	SCT LTD. limited	
		3-ph isolator with/without earth switch	03	Fardey	
3.	132 KV Motihari-Dhaka - I	Line control & relay panel with distance protection & O/C & E/F protection	01	ERL	2006
		3-phase Circuit Breaker	01	Siemens	
		1-ph CVT	01	Alstom	
		LA	03	CG	
		1-ph current transformer	03	SCT LTD.	
		3-ph isolator with/without earth switch	03	Switchgear & Structure ltd	
4.	132 KV Motihari-Dhaka - II	Line control & relay panel with distance protection & O/C & E/F protection	01	C&S	2016
		3-phase Circuit Breaker	01	CGL	
		1-ph CVT	03	SCT LTD.	
		LA	03	Electrolyte	
		1-ph current transformer	03	SCT LTD.	
		3-ph isolator with/without earth switch	01	Electrolyte	
5.	132 KV Motihari-Sugauli S/C	Line control & relay panel with distance protection & O/C & E/F protection	01	ERL	2010
		3-phase Circuit Breaker	01	AREVA	
		1-ph CVT	01	CGL	
		LA	03	Oblum Electric industry	
		1-ph current transformer	03	SCT LTD.	
		3-ph isolator with/without earth switch	03	S&S Power	
6.	132 KV Motihari-DMTCL- I	Line control & relay panel with distance protection & O/C & E/F protection	01	C&S	06/08/2017
		3-phase Circuit Breaker	01	CGL	
		1-ph CVT	01	SCT LTD.	
		LA	03	Electrolyte	


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		1-ph current transformer	03	SCT LTD.	
		3-ph isolator with/without earth switch	03	Electrolyte	
7.	132 KV Motihari-DMTCL- II	Line control & relay panel with distance protection & O/C & E/F protection	01	C&S	14/08/2017
		3-phase Circuit Breaker	01	CGL	
		1-ph CVT	01	SCT LTD.	
		LA	03	Electrolyte	
		1-ph current transformer	03	SCT LTD.	
		3-ph isolator with/without earth switch	03	Electrolyte	
8	132/33 KV Transformer bay (HV) (20 MVA Tr. 1)	Line control & relay panel with distance protection & O/C & E/F protection	01	English Electric	1974
		3-phase Circuit Breaker	01	CGL	
		LA	03	LAMCO	
		1-ph current transformer	03	SCT LTD.	
		3-ph isolator with/without earth switch	03	Fardey	
9	132/33 KV Transformer bay (HV) 50 MVA Tr.02)	Line control & relay panel with distance protection & O/C & E/F protection	01	ABB	2015
		3-phase Circuit Breaker	01	Siemens	
		LA	03	LAMCO	
		1-ph current transformer	03	CGL	
		3-ph isolator with/without earth switch	03	Fardey	
10	132/33 KV Transformer bay (HV) 50 MVA Tr.03)	Line control & relay panel with distance protection & O/C & E/F protection	01	C&S Electric	31/05/2016
		3-phase Circuit Breaker	01	CGL	
		LA	03	Electrolyte	
		1-ph current transformer	03	SCT LTD.	
		3-ph isolator with/without earth switch	03	Electrolyte	
11	132/33 KV Transformer bay (HV) 50 MVA Tr.04)	Line control & relay panel with distance protection & O/C & E/F protection	01	C&S	13/08/2016
		3-phase Circuit Breaker	01	CGL	
		LA	03	Electrolyte	
		1-ph current transformer	01	SCT LTD.	
		3-ph isolator with/without earth switch	03	Electrolyte	
12	132/33 KV Transformer bay (LV) 20 MVA Tr.1	Line control & relay panel with distance protection & O/C & E/F protection	01	English & Electric	1974 Schneider VCB commissioned on 31.07.2017
		3-phase Circuit Breaker	01	Megawin	
		LA	03	Lamco	
		1-ph current transformer	03	SCT LTD.	
		3-ph isolator with/without earth switch	03	Fradey	
13	132/33 KV Transformer bay (LV) 50 MVA Tr.02	Line control & relay panel with distance protection & O/C & E/F protection	01	ABB	2015
		3-phase Circuit Breaker	01	CGL	


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		LA	03	LAMCO	
		1-ph current transformer	03	SCT LTD. Ltd.	
		3-ph isolator with/without earth switch	03	Fraley	
14	132/33 KV Transformer bay (LV) 50 MVA Tr.03	Line control & relay panel with distance protection & O/C & E/F protection	01	C&S	2016
		3-phase Circuit Breaker	01	CGL	
		LA	03	Electrolyte	
		1-ph current transformer	03	SCT LTD. Ltd.	
		3-ph isolator with/without earth switch	03	Electrolyte	
15	132/33 KV Transformer bay (LV) 50 MVA Tr.04	Line control & relay panel with distance protection & O/C & E/F protection	01	C&S	2016
		3-phase Circuit Breaker	01	CGL	
		LA	03	Electrolyte	
		1-ph current transformer	03	SCT LTD. Ltd.	
		3-ph isolator with/without earth switch	03	Electrolyte	
16.	33KV Kotwa	Line control & relay panel with distance protection & O/C & E/F protection	01	Schweitzer Engineering Laboratories	2018
		3-phase Circuit Breaker	01	Stelmec	
		LA	03	LAMCO	
		1-ph current transformer	03	SCT LTD. Ltd.	
		3-ph isolator with/without earth switch	03	FRADEY	
17.	33 KV Madhopur	Line control & relay panel with distance protection & O/C & E/F protection	01	Schweitzer Engineering Laboratories	2018
		3-phase Circuit Breaker	01	CGL	
		LA	03	LAMCO	
		1-ph current transformer	03	SCT LTD.	
		3-ph isolator with/without earth switch	03	FRADEY	
18	33 KV Belisarai	Line control & relay panel with distance protection & O/C & E/F protection	01	ABB	26.05.2012
		3-phase Circuit Breaker	01	CGL	
		LA	03	LAMCO	
		1-ph current transformer	03	SCT LTD.	
		3-ph isolator with/without earth switch	03	FRADEY	
19	33 KV Chakiya	Line control & relay panel with distance protection & O/C & E/F protection	01	Schweitzer Engineering Laboratories	2018
		3-phase Circuit Breaker	01	CGL	
		LA	03	LAMCO	
		1-ph current transformer	03	SCT LTD.	
		3-ph isolator with/without earth switch	03	FRADEY	
20	33 KV Banjariya	Line control & relay panel with distance protection & O/C & E/F protection	01	Schweitzer Engineering Laboratories	2018


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		3-phase Circuit Breaker	01	Stelmec	
		LA	03	LAMCO	
		1-ph current transformer	03	SCT LTD.	
		3-ph isolator with/without earth switch	03	FRADEY	
21	33 KV Motihari	Line control & relay panel with distance protection & O/C & E/F protection	01	Schweitzer Engineering Laboratories	2018
		3-phase Circuit Breaker	01	CGL	
		LA	03	LAMCO	
		1-ph current transformer	03	SCT LTD.	
		3-ph isolator with/without earth switch	03	FRADEY	
22	33 KV Chhatouni	Line control & relay panel with distance protection & O/C & E/F protection	01	Schweitzer Engineering Laboratories	2018
		3-phase Circuit Breaker	01	CGL	
		LA	03	LAMCO	
		1-ph current transformer	03	SCT LTD.	
		3-ph isolator with/without earth switch	03	FRADEY	
		3-ph isolator with/without earth switch	03	Electrolyte	
23	33 KV Areraj(Turkolia)	Line control & relay panel with distance protection & O/C & E/F protection	01	ABB	26.05.2012
		3-phase Circuit Breaker	01	CGL	
		LA	03	LAMCO	
		1-ph current transformer	03	SCT LTD.	
		3-ph isolator with/without earth switch	03	FRADEY	
24	33 KV B/C	Line control & relay panel with distance protection & O/C & E/F protection	01	Schweitzer Engineering Laboratories	2018
		3-phase Circuit Breaker	01	CGL	
		LA	03	LAMCO	
		1-ph current transformer	03	SCT LTD.	
		3-ph isolator with/without earth switch	03	FRADEY	
25	33 KV Piprakothi bay	Line control & relay panel with distance protection & O/C & E/F protection	01	C&S	2018
		3-phase Circuit Breaker	01	CGL	
		LA	03	Electrolyte	
		1-ph current transformer	03	SCT LTD.	
		3-ph isolator with/without earth switch	03	Electrolyte	
26	33 KV Jamia bay	Line control & relay panel with distance protection & O/C & E/F protection	01	C&S	2018
		3-phase Circuit Breaker	01	CGL	
		LA	03	Electrolyte	
		1-ph current transformer	03	SCT LTD.	
		3-ph isolator with/without earth switch	03	Electrolyte	


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27	04 nos of 33 KV spare bay	Line control & relay panel with distance protection & O/C & E/F protection	01	C&S	2016
		3-phase Circuit Breaker	01	CGL	
		LA	03	Electrolyte	
		1-ph current transformer	03	SCT LTD.	
		3-ph isolator with/without earth switch	03	Electrolyte	


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Asst. Executive Engineer,
Transmission Sub Division Motihari

Other Sub Station equipments

Name of Circle- Transmission Circle, Muzaffarpur,

Name of GSS- 132/33 KV GSS, Motihari

Sl. No.	Name of Bay	Equipment Name	Quantity	Make	Date of Commissioning
1		Battery Charger (250V)	03	Amara raja, Chloride ,Chloride	2016,2017,2017
2		ACDB(415 v)	04	Vikas Power Equipments (P) Ltd- 2 Nos. Asian switchgear Pvt. Ltd.- 2Nos.	2016, 2017,2018,2018
3		DCDB (250v)	04	Vikas Power Equipments (P) Ltd- 2 Nos., Asian switchgear Pvt. Ltd.- 2 Nos.	2016, 2017,2018,2018
4		Battery bank	03	All Exide	2016,2017,2017
5		DG Set	Nil	N/A	N/A
6	PICC equipment	Isolator	Nil	N/A	N/A
		Battery charger(48v)	01	ASCOM	2018
		Panel	11	ETI(02),Puncon (01),BPL(04), ABB(04)	NA, NA, NA,2017
		Telephone	05(not working)		
		Hydrant system with pipe arrangement	NA	N/A	N/A
		Fire fighting equipment	14	Minimax, Zeinth, Kanex, Ajay	
		Earthing rods	Nil	N/A	N/A
		Tools and tackles (spanners, wrench,etc.)	Available from local purchase	Taparia	
		Testing equipment	05	Megger 5KV WACO-02nos (one working),DC Multimeter 01(not working), Fault locator-Taraus, Tonge Tester-01 nos.-not working	NA
		Safety gear (halmet,Gloves,Boot etc)	Gloves-02 set,boot-02 set	--	NA
		SST	01	ITS PVT Ltd.	NOV 2013
		Spare hardware fittings	Available in miscellaneous	N/A	N/A


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 Asst. Exe. Engg.
 Trans. Sub Div. Motihari

Sample format for GSS Land assets

GSS:- 132/33 KV GSS Motihari

	LOCATION	Motihari
01	Name of GSS	132/33 KV GSS Motihari
02	Located at (Name of locality)	Vill- Majurahan, PO- HPO, Motihari
03	Block/Prakhanda	Sadar Motihari
04	Police Station (Thana)	Raghunathpur OP
05	Sub-Division	Sadar Motihari
06	District	East Champaran (Motihari)
07	Transmission Division	Motihari
08	Transmission Circle	Muzaffarpur
09	GPS Co-ordinates	Longitude- 84.89588, Latitude- 26.62464
	LAND DETAILS	
10	Initial Area (In Acre)	34.24
11	Whether it was:	
	(i) A Govt. Land (State type GM or)	Govt. Land
	(ii) Private Land	-----
	If Private Land, Whether	-----
	(i) Purchased	-----
	(ii) Acquired	Details not available
	(iii) Leased Land	-----
12	Year of Purchase/Acquisition	Details not available
13	Whether mutation completed	NO
14	Cost of the Land (At the time of procurement)	Not Available
15	Whether more land was purchased /acquired/ Leased in for GSS Extension work? If yes, Give details	No
16	Area of the extra land for GSS	-----
17	Cost	-----
18	Year of Purchase/lease of extra land	-----
19	Total area at present	34.24
	Details of Land (Khata/Khesara)	Khesra No- 71,72,73,76,78,79,80,81,82,83,84,86,87,88, 89,90,91,92,93,99,100,101,102,103,104,,105, 106,107,108,130,131
	Thana No.	195
	Name of Municipality/Nagar Parishad etc.	Motihari Nagar Parishad
	Ward No./Circle No./ Holding No.	W.No. 35, H.No. 234 to 239
	Amount of Early Land related Taxes	Details not available
	Taxes clear up to	Details not available
20	Land Records available with	Transmission Division, Motihari


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Asst. Executive Engineer,
Transmission Sub Division, Motihari

Details of existing equipment

Name of Circle- Transmission Circle, Muzaffarpur,

Name of GSS- 220/132/33 kV GSS, MUSAHARI

I. No.	Name of Bay	Equipment Name	Quantity	Make	Date of Commissioning
1.	220 kV Motipur- Musahari Line 1 bay	Line control & relay panel with distance protection & O/C & E/F protection	02 01	GE ALSTOM	17.01.2017
		3-phase Circuit Breaker	01	Siemens	
		1-ph CVT	03	Siemens	
		LA	03	CGL	
		1-ph current transformer	03	SCT limited	
		3-ph isolator with/without earth switch	04	Siemens	
2.	220 kV Motipur- Musahari Line 2 bay	Line control & relay panel with distance protection & O/C & E/F protection	02 01	GE ALSTOM	10.01.2017
		3-phase Circuit Breaker	01	Siemens	
		1-ph CVT	03	Siemens	
		LA	03	CGL	
		1-ph current transformer	03	SCT limited	
		3-ph isolator with/without earth switch	04	Siemens	
3.	220 kV Musahari - Darbhanga line 1 bay	Line control & relay panel with distance protection & O/C & E/F protection	02 01	GE ALSTOM	17.01.2017
		3-phase Circuit Breaker	01	Siemens	
		1-ph CVT	03	Siemens	
		LA	03	CGL	
		1-ph current transformer	03	SCT limited	
		3-ph isolator with/without earth switch	04	Siemens	
4.	220 kV MUSAHARI- DARBHANGA Line 2 BAY	Line control & relay panel with distance protection & O/C & E/F protection	02 01	GE Alstom	09.01.2017
		3-phase Circuit Breaker	01	Siemens	
		1-ph CVT	03	Siemens	
		LA	03	CGL	

		1-ph current transformer	03	SCT limited	
		3-ph isolator with/without earth switch	04	Siemens	
5.	220 kV SPARE D/C BAY	Line control & relay panel with distance protection & O/C & E/F protection	04 02	GE Alstom	17.01.2017
		3-phase Circuit Breaker	02	Siemens	
		1-ph CVT	06	Siemens	
		LA	06	CGL	
		1-ph current transformer	06	SCT limited	
		3-ph isolator with/without earth switch	08	Siemens	
6.	220kV TBC BAY	Line control & relay panel with distance protection & O/C & E/F protection	01	GE	17.01.2017
		3-phase Circuit Breaker	01	Siemens	
		1-ph current transformer	3	SCT	
		3-ph isolator with/without earth switch	03	Siemens	
7.	220/132 kV 160MVA transformer -1 HV Side	Line control & relay panel with distance protection & O/C & E/F protection	02	GE	17.01.2017
		3-phase power transformer	1	T&R	
		3-phase Circuit Breaker	01	Siemens	
		LA	03	CGL	
		1-ph current transformer	06	SCT limited	
		3-ph isolator with/without earth switch	04	Siemens	
8.	220/132 kV 160MVA transformer -2 HV Side	Line control & relay panel with distance protection & O/C & E/F protection	02	GE	21.02.2017
		3-phase power transformer	1	T&R	
		3-phase Circuit Breaker	01	Siemens	
		LA	03	CGL	
		1-ph current	03	SCT limited	

9.	220kV bus coupler bay	transformer			17.01.2017
		3-ph isolator with/without earth switch	04	Siemens	
		Line control & relay panel with distance protection & O/C & E/F protection	02	GE	
		3-phase Circuit Breaker	02	Siemens	
		1-ph current transformer	03	SCT limited	
10.	Main BUS 1	3-ph isolator with/without earth switch	02	Siemens	09.01.2017
		1-ph CVT	6	Siemens	
11.	Main BUS 2	3-ph isolator with/without earth switch	2	Siemens	09.01.2017
		1-ph CVT	3	Siemens	
		3-ph isolator with/without earth switch	1	Siemens	

132 kV

1.	132 KV Musahari-SKMCH D/C bay	Line control & relay panel with distance protection & O/C & E/F protection	04	GE	26.01.2017
		3-phase Circuit Breaker	02	Siemens	
		1-ph CVT	06	Siemens	
		LA	06	CGL	
		1-ph current transformer	06	SCT limited	
		3-ph isolator with/without earth switch	06	Siemens	
2.	132 KV MUSAHARI-SITAMARHI D/C BAY	Line control & relay panel with distance protection & O/C & E/F protection	04	GE	10.04.2017
		3-phase Circuit Breaker	01	Siemens	
		1-ph CVT	06	Siemens	
		LA	06	CGL	
		1-ph current transformer	06	SCT limited	
		3-ph isolator with/without earth switch	06	Siemens	
3.	50 MVA Transformer No-I HV SIDE	Line control & relay panel with distance	02	GE	22.01.2017

		protection & O/C & E/F protection			
		3-phase power transformer	1	CGL	
		3-phase Circuit Breaker	01	Siemens	
		LA	03	CGL	
		1-ph current transformer	03	SCT	
		3-ph isolator with/without earth switch	03	Siemens	
4.	50 MVA Transformer No-II HV SIDE	Line control & relay panel with distance protection & O/C & E/F protection	02	GE	03.02.2017
		3-phase power transformer	1	CGL	
		3-phase Circuit Breaker	01	Siemens	
		LA	03	CGL	
		1-ph current transformer	03	SCT	
		3-ph isolator with/without earth switch	03	Siemens	
5.	50 MVA Transformer No-III HV SIDE	Line control & relay panel with distance protection & O/C & E/F protection	02	GE	03.02.2017
		3-phase power transformer	1	CGL	
		3-phase Circuit Breaker	01	Siemens	
		LA	03	CGL	
		1-ph current transformer	03	SCT	
		3-ph isolator with/without earth switch	03	Siemens	
6.	220/132kV 160 MVA Transformer No-I LV side	Line control & relay panel with distance protection & O/C & E/F protection	02	GE	17.01.2017
		3-phase Circuit Breaker	01	Siemens	
		LA	03	CGL	
		1-ph current	03	SCT	

		transformer			
		3-ph isolator with/without earth switch	03	Siemens	
7.	220/132kV 160 MVA Transformer No-II LV Side	Line control & relay panel with distance protection & O/C & E/F protection	02	GE	21.02.2017
		3-phase Circuit Breaker	01	Siemens	
		LA	03	CGL	
		1-ph current transformer	03	SCT	
		3-ph isolator with/without earth switch	03	Siemens	
8.	Transfer bus coupler	Line control & relay panel with distance protection & O/C & E/F protection	01	GE	03.02.2017
		3-phase Circuit Breaker	01	Siemens	
		1-Phase CVT	03	Siemens	
		1-ph current transformer	03	SCT	
		3-ph isolator with/without earth switch	03	Siemens	

33kV

1.	132/33kV 50MVA transformer -1 LV side	Line control & relay panel with distance protection & O/C & E/F protection	01	GE	22.01.2017
		3-phase Circuit Breaker	01	CGL	
		LA	03	CGL	
		1-ph current transformer	03	SCT	
		3-ph isolator with/without earth switch	03	Siemens	
2.	132/33kV 50MVA transformer -2 LV side	Line control & relay panel with distance protection & O/C & E/F protection	01	GE	03.02.2017
		3-phase Circuit Breaker	01	CGL	
		LA	03	CGL	
		1-ph current	03	SCT	

		transformer			
		3-ph isolator with/without earth switch	03	Siemens	
3.	132/33kV 50MVA transformer -3 LV side	Line control & relay panel with distance protection & O/C & E/F protection	01	GE	03.02.2017
		3-phase Circuit Breaker	01	CGL	
		LA	03	CGL	
		1-ph current transformer	03	SCT	
		3-ph isolator with/without earth switch	03	Siemens	
4.	33 kV Markan	Line control & relay panel with distance protection & O/C & E/F protection	01	GE	22.01.2017
		3-phase Circuit Breaker	01	CGL	
		LA	03	CGL	
		1-ph current transformer	03	SCT	
		3-ph isolator with/without earth switch	03	Siemens	
5.	33 kV Spare bay 8 Nos.	Line control & relay panel with distance protection & O/C & E/F protection	08	GE	22.01.2017
		3-phase Circuit Breaker	08	CGL	
		LA	24	CGL	
		1-ph current transformer	24	SCT	
		3-ph isolator with/without earth switch	24	Siemens	
6.	33 kV Transfer Bus Coupler	Line control & relay panel with distance protection & O/C & E/F protection	01	GE	03.02.2017
		3-phase Circuit Breaker	01	CGL	
		1-ph PT	03	SCT	
		1-ph current transformer	03	SCT	
		3-ph isolator with/without earth switch	02	Siemens	

Other Equipment Detail					
1	Battery Charger	250V	2	Chloride	2016
		48V	2	Chloride	2016
2	ACDB		1	Vikash	2016
3	DCDB	110V	1	Vikash	2016
		48V	1	Vikash	2016
4	Battery Bank	250V	2	Chloride	2016
		48V	2	Chloride	2016
5	DG set		1	KIRLOSKAR	2017
6	PLCC Equipment	Isolator			
		Battery Charger	2	Chloride	2016
		Panel	6	ABB	2017
		Telephone	6	ABB	2017
7	Hydrant syaytem with pipe arrangement	1set			2017
8	Fire Fighting Equipment		29	Kanex	
9	Earthing Road		18		2017
10	Tools & Tackles(spanners Wrench Etc.)	1Set			
11	Testing equipment	BDV TEST KIT	1	Megger	2017
		INSULATION TESTER	1	Megger	
		DIGITAL MULTIMETER	1	Megger	
		CAPACITANCE AND TAN DELTA KIT	1	Megger	
		TRANSFORMER WINDING RESISTANCE METER	1	Megger	
		TRANSFORMER TURN RATIO METER	1	Megger	
		CIRCUIT BREAKER KIT MEGGER	1	Megger	
		PRIMARY CURRENT INJECTION KIT	1	Megger	
		SECONDARY CURRENT INJECTION KIT	1	Megger	
		RELAY OPERATION TIMER	1	Megger	
		PORTABLE SF-6 GAS FILLING DEVICE	1	Enervac	
		SF-6 GAS EVACUATING FILTERRING	1	Enervac	
		HANDHELD DEW POINT METER VAISHALA	1	Vaishala	
12	Saftey Gear (Helmet, Gloves,Boot,etc)	4,2,2			
13	SST		2	REYCHEM RING L.D	2017
14	Spare Hardware Fitting	1set			

Format For Electricity Consumption

Name Of GSS	Whether meter connection taken to measure Auxilary consumaption, if so provide details with service connection number	Annual Consumption and electricity charges towards auxilary consumption	Whether Seprate meter connection taken to measure Colony consumaption, if so provide details with service connection number	Annual Consumption and electricity charges towards auxilary consumption	Remarks
Musahari	NO	N/A	N/A	N/A	SST Energy Meter not installed yet

Sample format for GSS land assets

GSS:- 220/132/33kV GSS Musahari

	Location	Musahari, Muzaffarpur
1.	Name of GSS	Musahari
2.	Located at (Name of locality))	Dwarikanagar
3.	Block / Prakhanda	Musahari
4.	Police station (Thana)	Musahari
5.	Sub-Division	Musahari
6.	District	Muzaffarpur
7.	Transmission Division	Muzaffarpur
8.	Transmission circle	Muzaffarpur
9.	GPS Co-ordinates	26.068810N, 85.486496E
	LAND DETAILS	
10.	Initial area (in Acre)	20
11.	Whether it was :	
	(i) A govt. land (state type GM or)	
	(ii) Private land	20
	If private land, whether	
	(i) Purchased	
	(ii) Acquired	ACQUIRED
	(iii) Leased land	
12.	Year of purchase / acquisition	2014
13.	Whether mutation completed	NO
14.	Cost of the land (at the time of procurement)	
15.	Whether more land was purchased / acquired / leased on for GSS Extension work ?	YES
16.	Area of the extra land for GSS	0.25
17.	Cost	
18.	Year of purchase / lease of extra land	2016
19.	Total area at present	20.250
	Details of land (khata/Kesara)	453to475,493,494,495,496, 498,499,500,501,502etc
	Thana no.	432,428
	Name of municipality / nagar Parishad etc.	Dwarikangar
	Ward no. / circle no. / holding no.	
	Amount of early land related taxes	
	Taxes clear up to	
20.	Land records available with	

132/33 KV GSS Vaishali

132 KV Line bay		1-Ph Current Transformer			
		3 Phase Isolator with/without Earth switch			
		Line control & relay panel with Distance protection & O/C E/F protection	4	Siemens, ABB	10-11-2006, 29-09-2007, 18-01-2012, 11-01-2015
		3 Phase Circuit Breaker	4	Siemens, ABB, CGL	DO
		1 Ph CVT		ALSTOM, ABB	
		LA	12	CGL, OBLUM	
132/33 KV Transformer bay(HV)		1-Ph Current Transformer	12	TELK, LAMCO,	
		3 Phase Isolator with/without Earth switch	12	S&S, ELEKTROLITES, Siemens Ltd	
		Transformer control & relay panel with Differential protection & O/C E/F protection	3	Simens, ptc	10-11-2006, 15-10-2017
		3 Phase Circuit Breaker	3	Simens, CGL	
		LA	9	CGL, LAMCO	
		1-Ph Current Transformer	9	TELK, LAMCO,	
132/33 KV Transformer bay(LV)		3 Phase Isolator with/without Earth switch		S&S, R.K Engineers	
		Transformer control & relay panel with Differential protection & O/C E/F protection	2	Simens, ptc	10-11-2006, 15-10-2017
		3 Phase Circuit Breaker	3	Simens, CGL	
		LA	9	CGL, Lamco	
		1-Ph Current Transformer	9	TELK, LAMCO,	
		3 Phase Isolator with/without Earth switch		S&S, R.K Engineers	
132 KV Buscoupler bay		Line control & relay panel with Distance protection & O/C E/F protection	1	Siemens	
		3 Phase Circuit Breaker	3	Siemens	
		1 Ph PT	1	ALSTOM, ABB	
		LA			
		1-Ph Current Transformer	3	TELK	
		3 Phase Isolator with/without Earth switch	2	S&S	
33 KV Feeder		Line control & relay panel with O/C E/F protection	4	Siemens, Areva, ABB	01-01-2007, 03-09-2007, 21-02-2013, 30-01-2016
		3 Phase Circuit Breaker	4	Siemens, Areva, ABB	
		LA	12	Lamco, oblum, cgl	


Assistant Engineer
Bihar State Power Transmission Co. Ltd.
Transmission Sub Division, Vaishali

132/23KV GSS Vaishali

33 KV Buscoupler	1-Ph Current Transformer	12	CGL, Siemens,ABB	
	3 Phase Isolator with/without Earth switch	12	S&S, R.K Engineers, Project Electrical, Faraday	
	Line control & relay panel with Distance protection & O/C E/F protection	1	Siemens	
	3 Phase Circuit Breaker	1	Siemens	
	1 Ph PT	3	Mehru	
	LA			
	1-Ph Current Transformer	3	TELK	
	3 Phase Isolator with/without Earth switch	2	S&S	

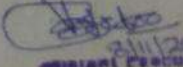
Other Substation Equipments -

Other Substation Equipments -							
	Battery Charger		1	250V	2	HBLNIFE, AMARA RAJA	
			2	48V	1		
	ACDB				6	Vikash Engg.	
	DCDB(110V/48V)				2	Vikash Engg.	
	Battery bank		1	250V	2	HBLNIFE, Exide	
			2	48V	--	HBLNIFE	
	DG set				1	JACKSON	
	PLCC Equipment	1.Isolator					
		2. Battery Charger (48V)			1		
		3. Panel			7	ABB, BPL, Puncom	
		4.telephone			2		
	Hydrant system with Pipe arrangement						
Fire Fighting Equipment					21		
Earthing Rods					4		
Tools & Tackles(Spanners,Wrench..etc.(Set/Piece)					22		
Testing Equipments					4		
Safety Gear(Helmet,Gloves,Boot, etc.)					10		
SST					1	Transformers & Rectifiers ltd.	
Spare Hardware Fitting.					15		


 10/11/2018
 Assistant Executive Engineer
 Bihar State Power Transmission Co. Ltd.
 Transmission Sub Division, Vaishali

Land Assets
GSS:- Vaishali

LOCATION	
01. Name of GSS	132/33 kv GSS Vaishali-844128
02. Located at (Name of locality)	Vaishali Block
03. Block/Prakhand	Vaishali
04. Police Station (Thana)	Vaishali
05. Sub Division	Vaishali
06. District	Vaishali
07. Transmission Division	Hajipur
08. Transmission Circle	Muzaffarpur
09. G.P.S Co-ordinates	Latitude - 25.973242, 25°58'23.67" N Longitude - 85.1310239, 85°7'51.69" E
LAND DETAILS	
10. Initial Area (In Acre)	7 Acre
11. Whether it was:-	
(i) A Govt. Land (State type Gm or)	Yes
(ii) Private Land	-
If private Land whether	-
(i) Purchased	-
(ii) Acquired	-
(iii) Leased Land	-
12. Year of Purchase/Acquisition	Rs 200409000 Approx value
13. Whether mutation Completed	Yes
14. Cost of Land (At the time of Procurement)	Rs 7, 70, 00, 000 Approx value. Seven crore Seventy Lakh only.
15. Whether more land was purchased/acquired/Leased in GSS Extension work? If Yes Give Details	NIL
16. Area of the extra land for GSS	NIL
17. cost.	NIL
18. Year of Purchase/lease of extra land	NIL
19. Total area at Present	7 Acre
Details of Land (Khata/khesara)	2307/9101, 1917/9100, 2379/9099, 1532/9115, 1558/9220 1169/9203, 928/9202, 2379/9098, 1916/9097, 1916/9096
Thana No.	43
Name of Municipality/Nagar Parishad etc.	NIL
Ward No./Circle No./Holding No.	19
Amount of Early Land related Taxes	-
Taxes clear up to	-
20. Land Records available with	-


 Assistant Executive Engineer
 Transmission Sub Division
 Vaishali

1717/9082
 1717/9084