Details of existing equipment

Name of Circle- Transmission Circle, Muzaffarpur

Name of GSS- 132/33 KV GSS BETTIAH

SI. No.	Name of Bay	Equipment Name	Quantity	Make	Date/ Year of Commissioning
1.	132 KV Gopalganj ckt -01	Line control & relay panel with distance protection & O/C & E/F protection	01	EASUN	2005
		3-phase Circuit Breaker	01	Siemens	2005
		1-ph CVT	03	Alstom	2005
		LA	03	Cgl ,LAMCO(B PHASE)	2005,,07/04/18(B)
		1-ph current transformer	03	SCT	19/03/2012
		3-ph isolator with/without earth switch	03	Switch gear and structure pvt ltd	
2.	132 KV Bettiah- Narkatiyganj	Line control & relay panel with distance protection & O/C & E/F protection	01	SEL	08/02/18
		3-phase Circuit Breaker	01	CGL	15/09/2016
		1-ph CVT	N/A		
		LA	03	LAMCO	16/10/2017
		1-ph current transformer(CT)	03	SCT	15/09/2017
		3-ph isolator with/without earth switch	03	FARADAY -01 NA -02	16/10/2017 1988
3.	132 KV Bettiah- Motihari	Line control & relay panel with distance protection & O/C & E/F protection	01	SEL	06/02/18
		3-phase Circuit Breaker	01	ABB	01/09/2016
		1-ph CVT	NA	NA	
		LA	03	LAMCO	25/12/2016
		1-ph current transformer	03	SCT .	25/12/2016
		3-ph isolator with/without earth switch	03	NA -03	1988

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St. No.	Name of Bay	Equipment Name	Quantity	Make	Date/ Year of Commissioning
4.	132 KV Bettiah-Areraj	Line control & relay panel with distance protection & O/C & E/F protection	01	ESUN	2012
		3-phase Circuit Breaker	01	CGL	2012
		1-ph CVT	03	CGL	2012
		LA	03	CGL	2012
		1-ph current	03	MEHRU -02	2012
		transformer		TIKL -01	21/05/2015
		3-ph isolator with/without earth switch	03	SWICTH GEAR AND STRUCTURE	2012
5.	132 KV Bettiah Raxaul -01	Line control & relay panel with distance protection & O/C &	01	ABB	2012
		E/F protection 3-phase Circuit	01	CGL	06/06/2017
		Breaker			
		1-ph CVT	03	CGL	2012
	1	LA	03	CGL	2012
		1-ph current transformer	03	CGL	2012
		3-ph isolator with/without earth switch	03	SIEMENS -02 FARADY -01	2012 23/12/2016
6.	132 KV Bettiah-Raxaul -02	Line control & relay panel with distance protection & O/C & E/F protection		CGL	2015
		3-phase Circuit Breaker	01	CGL	2015
		1-ph CVT	03	CGL-02 CGL 01	2015 03/06/2017
		LA	03	CGL -02 LAMCO -01	2015 03/06/2017
		1-ph current transformer	03	SCT	2015
		3-ph isolator with/without earth switch	03	ELECTROLYTES	2015

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SI. IVO.	Name of Bay	Equipment Name	Quantity	Make	1
	·	-quipinent Name	Quantity	Make	Date/ Year of
7.	20 MVA TRANSFORMER –	Transformer	01	CNS	Commissioning
	03	control & relay	0.2	CIVS	01/02/2015
		panel with distance			
		protection & O/C &			
		E/F protection			
		3-phase Circuit	01	AREVA	01/02/2015
		Breaker		,	01/02/2015
		1-ph CVT	NA		
		LA	03	LAMCO -03	01/02/2015
		1-ph current	03	SCT	01/02/2015
		transformer	03	361	01/02/2015
		3-ph isolator	03	ELECTROLYTES	01/02/2015
		with/without earth		LLLCTROLITES	01/02/2015
		switch			
8.	132 KV Bettiah-Thakraha	Line control & relay	01		
	-01	panel with distance	01	ERL	2015
		protection & O/C &			
		E/F protection			
		3-phase Circuit	01		
		Breaker	01	SIEMENS	2015
		1-ph CVT	02		
		1 pii cv i	03	CGL	2015
		LA	03		
8.		1-ph current	03	CGL	2015
		transformer	03	MEHRU	2015
		3-ph isolator	03	7.7	
		with/without earth	03	SIEMENS	2015
		switch			
	132 KV/ Rottish Thelian				
	132 KV Bettiah-Thakraha -02	Line control & relay	01	System control and	10/09/2017
	02	panel with distance		automation pvt ltd	, = , = 5,
		protection & O/C &			
		E/F protection		,	
		3-phase Circuit	01	siemens	10/09/2017
		Breaker		200	,, 201,
		1-ph CVT	03	siemens	10/09/2017
		LA	03	CGL	10/09/2017
		1-ph current	03	SCT	10/09/2017
		transformer			20,03,2017
	,	3-ph isolator	03	ELECTROLYTES	10/09/2017
		with/without earth			10/03/201/
	¥	switch			
					i .

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SI. No.	Name of Bay	Equipment Name	Quantity	Make	Date/ Year of
10	132 KV Motihari(DMTCL)-	1:			Commissioning
10.	Bettiah new -01	Line control & relay panel with distance protection & O/C & E/F protection	01	System control and automation pvt ltd	06/04/2017
		3-phase Circuit Breaker	01	siemens	06/04/2017
	×	1-ph CVT	03	siemens	06/04/2017
		LA	03	CGL	06/04/2017
		1-ph current transformer	03	SCT	06/04/2017
		3-ph isolator with/without earth switch	03	ELECTROLYTES	06/04/2017
l.	132 KV Motihari(DMTCL)- Bettiah new -02	Line control & relay panel with distance protection & O/C & E/F protection	01	System control and automation pvt ltd	06/04/2017
		3-phase Circuit Breaker	01	siemens	06/04/2017
		1-ph CVT	03	siemens	06/04/2017
		LA	03	CGL	06/04/2017
		1-ph current transformer	03	SCT	06/04/2017
-	*	3-ph isolator with/without earth switch	03	ELECTROLYTES	06/04/2017
	·			₩	
	50 MVA Transformer No-I	Transformer control & relay panel with distance protection & O/C & E/F protection	01	DANISH	30/07/2014
		3-phase Circuit Breaker	01	AREVA	
		1-ph CVT	NA	NA	NA
		LA	03	LAMCO	15/10/2017
		1-ph current transformer	03	SCT	2017
		3-ph isolator with/without earth switch	03	FARADY -02 NA -01	16/10/201 ⁻¹

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SI. No.	Name of Bay	Equipment Name	Quantity	Make	Date/ Year of
					Commissioning
13.	20 MVA Transformer No-II	Transformer control & relay panel with distance protection & O/C & E/F protection	01	ABB	2009
		3-phase Circuit Breaker	01	ABB	2009
		1-ph CVT	NA	NA	
		LA	03	CGL	2009
		1-ph current transformer	03	CGL	2009
		3-ph isolator with/without earth switch	03	Siemens	2009
14.	132 KV Bus Coupler	Line control & relay panel with distance protection & O/C & E/F protection	01	SEL	07/02/18
		3-phase Circuit Breaker	01	CGL	30/03/2017
		1-ph CVT	NA	NA	
		1 –ph PT	01	SCT	10/04/2017
		LA	NA	NA	
		1-ph current transformer	03	SCT	
		3-ph isolator with/without earth switch	03	Faraday -01 NA -02	10/04/2017 1988
15.	33 KV Chanpatiya	Line control & relay panel with distance protection & O/C & E/F protection	2	VENSON	2012
	. 131	3-phase Circuit Breaker	01	AREVA	2012
		LA	03	NA	2012
		1-ph current transformer	03	KAPCO	2012
		3-ph isolator with/without eart switch	03 h	ELECTROLYTE	2012

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SI. Ivó.	Name of Bay	Equipment Name	Quantity	Make	Date/ Year of
16.	33KV Yogapatti	Line control & relay panel with distance protection & O/C & E/F protection	01	VENSON	Commissioning 2012
		3-phase Circuit Breaker	01	AREVA	2012
					2012
		LA	03	NA	2012
		1-ph current transformer	03	KAPCO	2012
		3-ph isolator	03	ELECTROLYTE-02	2012
17.	33 KV sail no -02	with/without e/s		FARADAY -01	06/07/2016
	33 KV 3all 110 -02	Line control & relay panel with distance protection & O/C & E/F protection	01	ABB	2009
		3-phase Circuit Breaker	01	ABB	2009
					2009
		LA	03	NA	2009
		1-ph current transformer	03	VISHAL	2009
		3-ph isolator with/without earth switch	03	Siemens	2009
3.	33KV ICT -02 (20MVA)	Line control & relay panel with distance protection & O/C & E/F protection	01	ABB	2009
		3-phase Circuit Breaker	01	ABB	2009
					2009
		LA	03	NA	2009
		1-ph current transformer	03	VISHAL	2009
		3-ph isolator with/without earth switch	03	Siemens	2009
	33 KV Sail no -01	Line control & relay panel with distance protection & O/C & E/F protection	01	ABB	2009
		3-phase Circuit Breaker	01	ABB	2009
		1-ph PT	03		2009
		LA		NA	2009
		1-ph current transformer	03	VISHAL	2009
		3-ph isolator with/without earth switch	02	Siemens	2009



SI. IVO.	Name of Bay	Equipment Name	Quantity	Make	Date/ Year of
20.	33 KV Nautan	Line control & relay panel with distance protection & O/C & E/F protection	01	VENSON	Commissionin
		3-phase Circuit Breaker	01	AREVA	2012
		1-ph CVT			2012
		LA	03	NA	2012
		1-ph current transformer	03	KAPCO	2012
		3-ph isolator with/without earth switch	03	ELECTROLYTE	2012
21.	20.10				
21.	33 KV ICT -01	Line control & relay panel with distance protection & O/C & E/F protection	01	DANISH	30/07/2014
		3-phase Circuit Breaker	01	CGL	09/07/2016
		1-ph CVT	NA	NA	NA
		LA	03	NA	NA
		1-ph current transformer	03	SCT	09/07/2016
		3-ph isolator with/without earth switch	03	ELECTROLYTE-02 NA -01	13/01/2013 1988
2.	33 KV Bairiya	line control 9 male	0.1	l .	
	,	Line control & relay panel with distance protection & O/C & E/F protection	01	VENSON	2012
		3-phase Circuit Breaker	01	AREVA	2012
		1-ph CVT	03		2012
		LA	03	NA	2012
		1-ph current transformer	03	KAPCO	2012
		3-ph isolator with/without earth switch	03	ELECTROLYTE	2012

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					601111116
23.	33 KV Bettiah	, ,	01	SEL	09/02/18
		panel with distance			
		protection & O/C &			
		E/F protection	01	ALCTONA	2004
		3-phase Circuit Breaker	01	ALSTOM	2004
		1-ph CVT	NA	NA	NA
		LA	03	NA	NA
		1-ph current	03	SCT	02/06/2016
		transformer	03	301	52, 23, 222
		3-ph isolator	03	ELECTROLYTE	13/01/2013
		with/without earth	03	2220111021112	
		switch			
		Switch			
4.	33 KV Naurangabad	Line control & relay	01	SEL	08/02/18
		panel with distance			
		protection & O/C &			
		E/F protection			
		3-phase Circuit	01	ALINE	2006
		Breaker			
		1-ph CVT		NA	NA
		LA	03	CGL	NA
		1-ph current	03	SCT	03/06/2016
		transformer			
		3-ph isolator	03	FARADAY	14/07/2016
		with/without earth			
		switch			
5.	33KV Dhokraha	Line control & relay	01	CAS	01/02/2015
		panel with distance		·	
		protection & O/C &			
.;,		E/F protection			
	57%	3-phase Circuit	01	SCHINIEDER	01/02/2015
		Breaker			
		1-ph CVT		NA	
		LA	03	LAMCO	01/02/2015
		_			01/02/2015
	*	1-ph current	03	SCT	01/02/2015
		transformer		\$ * _A 1	
		3-ph isolator	03	FARADAY	01/02/2015
		with/without earth	ı		
	1	switch			1

Equipment Name



Name of Bay

SI. No.

Date/ Year of

Commissioning

Make

Quantity

SINo.	Name of Bay	Equipment Name	Quantity	Make	Date/ Year of Commissioning
26.	33 KV ICT -03	Line control & relay panel with distance protection & O/C & E/F protection	01	Cas	01/02/2015
		3-phase Circuit Breaker	01	SCHINIEDER	01/02/2015
		1-ph CVT	03	NA	
	-	LA	03	LAMCO	01/02/2015
		1-ph current transformer	03		01/02/2015
		3-ph isolator with/without earth switch	03	SCT	01/02/2015
27.	33KV spare bay -01	Line control & relay panel with distance protection & O/C & E/F protection	01	CMS .	01/02/2015
		3-phase Circuit Breaker	01	SCHINIEDER	01/02/2015
		1-ph CVT		NA	01/02/2015
		LA	03	LAMCO	01/02/2015
		1-ph current transformer	03		01/02/2015
		3-ph isolator with/without e/s	03	SCT	01/02/2015

Assistant Executive Engineer
Transmission Sub-Division
Bettiah

		Other Substation Equipmen			
Battery Charger	1	Battery charger 1	1	Amar raja	11/01/1
	2	Battery charger 2	1	chloride	06/02/1
	3	Battery charger 3	1	chloride	07/02/1
ACDB		ACDB	- 4	VIKASH	200
1,1000			1	VIKASH .	20:
				VIKASH	20
				ASIAN S LTD	07/02/
	DCDB(250V)		4	VIKASH VIKASH VIKASH ASIAN S LTD	2009 2017 2017 07/02/18
		DCDB(48V)	N/A		
Battery bank	1	BATTERY BANK 1	1	Excide(wet cell)	11/01,
	2	BATTERY BANK 2	1	Excide(Dry cell)	06/02,
	3	BATTERY BANK 3	1	Excide(wet cell)	02/05
	DG set		N/A		
		1.Isolator	N/A		
PLCC Equipment	. 2.	Battery Charger		2 Electrotechnique,Eltek	N/A,2018
		3. Panel		9 ABB	
		4.telephone		4 ABB	
Hydran	t system with Pipe	e arrangement	N/A	F	
	Fire Fighting Equi	pment	2	0	
	Earthing Roo			4	
Tools & Tack		nchetc.(Set/Piece)		4	
	Testing Equipm		N/A		
Safety	Gear(Helmet,Glov	es,Boot, etc.)	1	0	
	SST			1	
	Spare Hardware I	Fitting.		1 TBEA	22/0

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Assistant Executive Engine Transmission Sub-Division Bettiah

Sample format for GSS land assets

GSS:- BETTIAH

	LOCATION	
01	Name of GSS	BETTIAH
02	Located at (Name of locality)	BARITOLA
03	Block/Prakhand	BETTIAH
04	Police Station (Thana)	MUFFASIL(BETTIAH)
05	Sub-Division	BETTIAH
06	District	WEST CHAMPARAN
07	Transmission Division	MOTIHARI
08	Transmission Circle	MUZAFFARPUR
09	GPS Co-ordinates	LAT-26.81552; LONG-84.54441
	LAND DETAILS	
10	Initial Area (In Acre)	8.32
11	Whether it was:	
	(i) A Govt. Land (State type GM or)	
	(ii) Private Land	BETTIAH STATE
	If Private Land, Whether	
	(i) Purchased	
	(ii) Acquired	
	(iii) Leased Land	
12	Year of Purchase/Acquisition	2.61acre(1989); 5.71 acre(1983)
13	Whether mutation completed	Yes
14	Cost of the Land (At the time of	
	procurement)	
. 15	Whether more land was purchased	2.27 acor(2011),Bettiah state and
	/acquired/ Leased in for GSS Extension	1.00 acre(under acquisition process)
	work?	
	If yes, Give details	2.27
16	Area of the extra land for GSS	2.27acre and 01acre(under acquisition
17	Cook	process) Rs;-3317492/- lakhs and 6552617/-lakhs
17	Cost Year of Purchase/lease of extra land	2011
20	Total area at present	11.59 acre
21	Details of Land (Khata/Khesara)	38/140,142 to 152,163,188
	Thana No.	191
	Name of Municipality/Nagar Parishad etc.	Panchayat;-Ganauli
\vdash	Ward No./Circle No./ Holding No.	Ward no-01
	Amount of Early Land related Taxes	Rs;-25.00
-	Taxes clear up to	2014-15
22	Land Records available with	Khata, khesara and map
22	Land Necords available with	Miata, Micsara and map

Assistant Executive Engineer Transmission Sub-Division Bettiah

FORMATE FOR ELECTRICITY CONSUMPTION

Name of gss	Whether	Annual	Whether	Annual	Remarks
	metered	consumption	separate	consumption	
	connection taken	and electricity	metered	and electricity	
	to measure	charges	connection	charges	
	<u>auxlliary</u>	towards	taken to	towards	
	consumption, if, so	auxillary	measure	auxillary	
	provide details	consumption	colony	consumption	
	with service		consumption		
	connection		if so, provide		
	<u>number</u>		details with		
			service		
			connection		
			<u>number</u>		
<u>BETTIAH</u>	YES	<u>264000kwh</u>	<u>no</u>	no	
	S Connection no:-		l j		
	401282112				l .

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Assistant Executive Engineer Transmission Sub-Division Bettiah

Buff Sheet

Sub.: Status of compliance on the directives issued by the Hon'ble BERC in the Tariff Order - 2018-19.

Ref.: 1. Letter No.- BERC-corr./Directive-09/18-850; Dated - 24/07/18

- 2. Letter No. BERC-Corr./Directive-09/18-942; Dated-09/08/18
- 3. Letter No. BERC-Corr./Directive-12/18-1258: Dated-29/10 18

In reference to above, the Hon'ble BERC issued directives in Tariff Order FY 2018-19 seeking compliance report at the earliest.

The following directives are related to Trans. (O&M) wing of BSPTCL:

S.No.	Directive	Subject Status of compliance
1.	Directive 6: Maintenance of asset/property Register GISIS B thich	The Commission has observed that the petitioner has submitted the details of equipment available at various substations in the form of scan copy/excel sheet. No details for lines were furnished. The equipment details furnished do not depict the value i.e. cost of equipment and other details. The property register should contain all the details of equipment available at the location i.e. substation, etc showing the details of nature of equipments, year of installation, value, rate of depreciation, depreciation (year on year as well as the accumulated depreciation), residual value, whether the equipment is in working condition or not, etc. The Commission directs BSPTCL to submit the property register showing all the particulars by 30 th September, 2018.
		New Directives
1.		Regulation 73 (3) of the BERC (Terms and Conditions for Determination of Tariff) Regulations 2007 specifies: Norms for operation and maintenance expenses per CktKm and per bay shall be as under: (a) The commission shall, for the purpose of fixing

Assistani Executive Engineer Transmission Sub-Division Bettlah

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normative rates for operation & maintenance lexpenses, study the O&M expenses incurred over the last 4 to 5 years and fixed appropriate rates per Ckt-km of transmission line and per bay. The norms so fixed for 2008-09 shall be escalated at 4% per annum. (b) The total allowable O&M expenses for a transmission licensee shall be calculated by multiplying the number of bays and Ckt-km of line length with the application norms for O&M expenses per bay and per Ckt-km respectively. The Commission, directs the BSPTCL to ensure filing of the tariff petition for next MYT control period i.e. from FY 2019-20 to FY 2021-22 proposing the norms for O&M expenses in accordance with regulation 73
(3).

2. The transmission licensees are obligated under the Regulation to take separate electric connection from distribution licensees for use of electricity within the grid sub-station and the electricity charges of such connection shall be booked under Administrative & General expenses and shall be pass through in the tariff. Such expenses shall not contain any electricity charges towards colony consumption.

Consumption and colony consumption in the format prescribed

AH	401282112	KWH		
BETTI	149	264000	No	No
146	Whether	Annual consumpt ion and electricity charges towards auxiliary consumpt ion	Whether separate metered connection taken to measure colony consumption, if so, provide details with service connection number	Annual consumption and electricity charges towards colony consumption.

The compliance report of the directives needs to be submitted to Hon'ble BERC and hence, it is requested to provide the report at the earliest to the undersigned.

Herenedrer 11/11/18

(Rakesh) 06.11.2018 ~ Chief Engineer (Power Management Cell)

Assistant Executive Engineer Transmission Sub-Division Bottlah

220/132 KV GSS Hajipur

GSS land assets

	LOCATION	
01	Name of GSS	220/132 KV Grid, Sub-Station, Hajipu
02	Located at(Name of locality)	Dighi Kalan, Hajipur
03	Block/ Prakhand	Hajipur
04	Police Station(Thana)	Hajipur, Sadar
05	Sub-Division	Hajipur
06	District	Vaishali
07	Transmission Division	Hajipur
08	Transmission Circle	Muzaffarpur
09	GPS Co-ordinates	Latitude- 25°43′6″ Longitude- 85° 14′ 3″
	LAND DETAILS	0.000
10	Initial Area (In Acre)	11.70 Acres
11	Whether it was:	
	(i)A Govt. Land (State type GM or)	
	(ii)Private Land	Yes
	If Private Land , whether	
	(i)Purchased	
	(ii)Acquired	Yes
	(iii)Leased land	
12	Year of Purchase/Acquisition	17-01-1987
13	Whether mutation completed	Yes
14	Cost of land (at the time of procurement)	NA
15	Whether more land was purchased / acquired/leased in for GSS extension work? If yes, give details.	No
16	Area of extra land for GSS	NA
17	Cost	NA
18	Year of Purchase/ Lease of extra land	NA
19	Total area at present	11.70
	Details of land (Khata/Khesra)	17/2854; 1175/2850; 502/2848; 502/2847; 502/2846; 502/2845; 54/2742; 1047/2743; 895/2787; 895/2788; 502/2844; 502/2843; 1175/2842; 421/2789; 421/2790; 140/2841; 334/2840; 33/2839; 1175/2836; 33/2838; 1116/2837; 1116/2830; 1014/2835; 313/2883; 1175/2849; 936/2851; 936/2852; 998/2853; 994/2881; 524/2889; 524/2891; 524/2890; 1116/2888; 489/2884; 33/2887; 334/2886;

Assistant Executive Engineer
Bihar State Power Transmission Co. Lt.:

Aussinn Sub Division-2 Hajinur (Valsham

	CAMPAGE CONTROL CONTRO	334/2885; 33/2834; 33/2833; 33/2832; 33/2831; 334/2829
	Thana no.	105
	Name of Municipality/ Nagar Parishad etc.	
	Ward no./ circle no./ holding no.	
	Amount of early land related taxes	
	Taxes clear up to	
20	Land records available with	

Gasistant Executive Engineer
Bihar State Power Transmission Co. Ltd.
Iransmission Sub Division-2 Hajipur (Vaishar)

Details of Existing Equipment

Name of Circle: - Muzaffarpur

Name of GSS:-220/132 kV GSS, Hajipur

SI. No.	Name of Bay	Equipment Name	Quantity	Make	Date of
		Line control & relay panel with distance protection & O/C E/F protection	1	ABB	24-06-2013
	Muzaffarpur(PG)-	1-phase Circuit Breaker	3	Areva	24-06-2013
	Hajipur Ckt 1	1-Ph CVT	3	Areva	24-06-2013
		LA	3	LAMCO Industries Pvt. Ltd.	24-06-2013
		1-Ph Current Transformer	3	SCT Limited	24-06-2013
		3 Phase isolator with/without Earth switch	4	Faraday Electricals Private Ltd.	24-06-2013
(1.) 220 KV Line		Wave Trap	2	Areva	24-06-2013
Вау	Muzaffarpur(PG)- Hajipur Ckt 2	Line control & relay panel with distance protection & O/C E/F protection	1	ABB	24-06-2013
		1- phase Circuit Breaker	3	Areva	24-06-2013
		1-Ph CVT	3	Areva	24-06-2013
		LA	3	LAMCO Industries Pvt. Ltd.	24-06-2013
		1-Ph Current Transformer	3	SCT Limited	24-06-2013
		3 Phase isolator with/without Earth switch	4	Faraday Electricals Private Ltd.	24-06-2013
		Wave Trap	2	Areva	24-06-2013
;=	BTPS –Hajipur Ckt-1	Line control & relay panel with distance	1	ABB	24-06-2013

Assistant Executive Engineer
Bihar State Power Transmission Co. Lts
uransmission Sub Division-2 Halinur (Valishan

		protection & O/C E/F protection			
		1- phase Circuit Breaker	3	Areva	24-06-2013
		1-Ph CVT	3	Areva	24-06-2013
	is .	LA	3	LAMCO Industries Pvt. Ltd.	24-06-2013
		1-Ph Current Transformer	3	SCT Limited	24-06-2013
		3 Phase isolator with/without Earth switch	4	Faraday Electricals Private Ltd.	24-06-2013
		Wave Trap	2	Areva	24-06-2013
	BTPS –Hajipur Ckt-2	Line control & relay panel with distance protection & O/C E/F protection	1:	ABB	24-06-2013
		1- phase Circuit Breaker	3	Areva	24-06-2013
		1-Ph CVT	3	Areva	24-06-2013
		LA	3	LAMCO Industries Pvt. Ltd.	24-06-2013
		1-Ph Current Transformer	3	SCT Limited	24-06-2013
		3 Phase isolator with/without Earth switch	4	Faraday Electricals Private Ltd.	24-06-2013
		Wave Trap	2	Areva	24-06-2013
		Transformer control and relay Panel with Differential Protection & O/C E/F protection	1	ABB	24-06-2013
	100 MVA Transformer No.	1 phase Circuit Breaker	3	Areva	24-06-2013
	1	LA	3	LAMCO Industries Pvt. Ltd.	24-06-2013
		1-Ph Current Transformer	3	SCT Limited	24-06-2013

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		3 Phase isolator with/without Earth switch	4	Faraday Electricals Private Ltd.	24-06-2013
		Transformer control and relay Panel with Differential Protection & O/C E/F protection	1	ABB	24-06-2013
(2.)	e Netzenio Territor	1-phase Circuit Breaker	3	Areva	24-06-2013
220/132 KV Transformer bay(HV)	100 MVA Transformer No. 2	LA	3	LAMCO Industries Pvt. Ltd.	24-06-2013
		1-Ph Current Transformer	3	SC Limited	24-06-2013
		3 Phase isolator with/without Earth switch	4	Faraday Electricals Private Ltd.	24-06-2013
		Transformer control and relay Panel with Differential Protection & O/C E/F protection	1	Siemens	24-06-2013
		3 phase Circuit Breaker	1	Siemens	28-02-2017
	100 MVA	LA	3	CGL	28-02-2017
	Transformer No.	1-Ph Current Transformer	3	Siemens	28-02-2017
		3 Phase isolator with/without Earth switch	4	Siemens	28-02-2017
		Transformer control and relay Panel with Differential Protection & O/C E/F protection	1	ABB	24-06-2013
	100 MVA Transformer No.	3 phase Circuit Breaker	1	Areva	24-06-2013
	1	LA	3	Lamco	24-06-2013
		1-Ph Current Transformer	3	SCT Ltd.	24-06-2013

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		3 Phase isolator with/without Earth switch	3	Faraday Electricals Pvt. Ltd.	24-06-2013
	W-1	Transformer control and relay Panel with Differential Protection & O/C E/F protection	1	ABB	24-06-2013
		3 phase Circuit Breaker	1	Areva	24-06-2013
	100 MVA	LA	3	Lamco	24-06-2013
(3.)	Transformer No.	1-Ph Current Transformer	3	SCT Ltd.	24-06-2013
220/132 KV Transformer bay (LV)		3 Phase isolator with/without Earth switch	3	Faraday Electricals Pvt. Ltd.	24-06-2013
	100 MVA Transformer No.	Transformer control and relay Panel with Differential Protection & O/C E/F protection		ABB	03-03-2017
		3 phase Circuit Breaker	1	Areva	03-03-2017
		LA	3	CGL	03-03-2017
		1-Ph Current Transformer	3	SCT Ltd.	03-03-2017
		3 Phase isolator with/without Earth switch	3	Faraday Electricals Pvt. Ltd.	03-03-2017
		Control & relay panel with O/C E/F protection	1	ABB	24-06-2013
4.664(3)		1- phase Circuit Breaker	3	Areva	24-06-2013
(4.)		1-Ph PT	6	SCT Ltd.	141
220 KV Bus coupler bay		1-Ph Current Transformer	6	SCT Ltd.	24-06-2013
		3 Phase isolator with/without Earth switch	4	Faraday Electricals Pvt. Ltd.	24-06-2013
		Control & relay panel with Distance & O/C	1	ABB	24-06-2013



		E/F protection			
(5.)		3 phase Circuit Breaker	3	Areva	24-06-2013
220 KV Transfer bus		1-Ph Current Transformer	3	SCT Ltd.	24-06-2013
coupler bay	91	3 Phase isolator with/without Earth switch	3	Faraday Electricals Pvt. Ltd.	24-06-2013
		Line control & relay panel with distance protection & O/C E/F protection	1	ABB	24-06-2013
		3 phase Circuit Breaker	1	Areva	24-06-2013
	Hajipur(new)-	1-Ph CVT	3	Areva	24-06-2013
	Hajipur (old)	LA	3	Lamco	24-06-2013
	Ckt 1	1-Ph Current Transformer	3	SCT Ltd.	24-06-2013
		3 Phase isolator with/without Earth switch	3	Faraday Electricals Pvt. Ltd.	24-06-2013
		Wave Trap	2	Areva	24-06-2013
		relay panel with distance protection & O/C E/F protection	1	ABB	24-06-2013
		3 phase Circuit Breaker	1	Areva	24-06-2013
	Hajipur(new)-	1-Ph CVT	3	Areva	24-06-2013
	Hajipur (old)	LA	3	Lamco	24-06-2013
	Ckt 2	1-Ph Current Transformer	3	SCT Ltd.	24-06-2013
		3 Phase isolator with/without Earth switch	3	Faraday Electricals Pvt. Ltd.	Ē
		Wave trap	2	Areva	24-06-2013
(6.)					
132 KV Line bay		Line control & relay panel with distance protection & O/C	1	ABB	24-06-2013

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		E/F protection			
		3 phase Circuit Breaker	1	Areva	24-06-2013
	Hajipur –	1-Ph CVT	3	Areva	24-06-2013
	Samastipur	LA	3	Lamco	24-06-2013
	5	1-Ph Current Transformer	3	SCT Ltd.	24-06-2013
		3 Phase isolator with/without Earth switch	3	Faraday Electricals Pvt. Ltd.	24-06-2013
		Line control & relay panel with distance protection & O/C E/F protection	1	ABB	03-03-2017
		3 phase Circuit Breaker	1	CGL	03-03-2017
	0.000	1-Ph CVT	3	Areva	03-03-2017
	Hajipur – Jandaha	LA	3	Lamco	03-03-2017
		1-Ph Current Transformer	3	SCT Ltd.	03-03-2017
		3 Phase isolator with/without Earth switch	3	JD Electricals	03-03-2017
		WaveTrap	2	Areva	03-03-2017
(7.)		control & relay panel with distance protection & O/C E/F protection	1	ABB	24-06-2013
132 KV Bus coupler bay		3 phase Circuit Breaker	1	Areva	24-06-2013
		1-Ph PT	3	SCT Ltd.	24-06-2013
		1-Ph Current Transformer	3	SCT Ltd.	24-06-2013
		3 Phase isolator with/without Earth switch	3	Faraday Electricals Pvt. Ltd.	24-06-2013

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Bihar State Power Transmission Co. Lt.:
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Other Substation Equipments-

SI.	Equip	ment nan	ne	Quantity	Make	Date of
1	100 MVA	was a f		2011-012		commissionin
2	100 MVA t			1	IMP Power	24-06-2013
3	100 MVA t			1	IMP Power Ltd.	24-06-2013
4	100 MVA t	ransforme	r no.3	1	Bharat Bijli	28-02-2017
	Battery charger		250 V	2	Caldyne automatics Ltd.	24-06-2013
5			48 V	2	Caldyne automatics Ltd.	24-06-2013
6		CDB		1	UNILEC	
0	DCDB		250 v	1	UNILEC	24-06-2013
7		-	48 v	1	UNILEC	24-06-2013
	Battery bank		250 V	2	Exide Industries Ltd.	24-06-2013 24-06-2013
8			48 V	2	Exide Industries Ltd.	24-06-2013
9		set		1	Jekson	24.05.2045
	PLCC		1. Panel	9	BPL	24-06-2013 24-06-2013
10		2	. Telephone	5	BPL	
11	Hydrant system wit		angement	1	Mehta & Associate	24-06-2013 24-06-2013
	Fire fighting equipm	ent	4.5 kg DCP	10	Laxmi Fabricators	24-06-2013
			4.5 kg CO2	10	Nitin fire protection	24-06-2013
			22.5 kg DCP	5	Kanadia Fyr Fyter Pvt. Ltd.	24-06-2013
2	Paraterio		22.5 kg CO2	2	Account the second seco	24-06-2013
3	Earthin			18		24-06-2013
	Testing equ	uipments		A	s per Annexure	1

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14	Safety gear	Helmet	6		
		Boot	4		
		Hand Gloves	4		
15	SST (630 KVA)		2	East India Udyog	24-06-2013

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Annexure- 1 (List of Testing Equipments)

SL. NO.	DESCRIPTION OF EQUIPMENT	MODEL	MAKE	SERIAL NUMBER	
1	Oil Testing Machine(BDV Test Kit) (2.5/4mm)-100KV Microprocessor based.	Oil Testing Machine(BDV Test Kit) MOTS RE		9279135(P)112-1	
2	5 KV Megger/Insulation Tester Microprocessor	MD5060e	Megabras	MU 5206A	
3	1000 V Megger/Insulation Tester Microprocessor	RISHInsu 10	Rishabh	121105	
4	500 GPH oil filtration machine (complete set with all accessories)	2000LPH	CEE DEE	CDVE/TOF/322	
5	Vacuum Pump	SN-07531-65	Air- Cadet	A12001896	
6	Circuit Breaker Test Kit	HISAC Ultima	SCOPE	3015.00 Z 153	
7	Karl Fisher Moisture test kit	Matic III	Veego		
8	Digital Tong Tester 200 Ma 20A-200A	KM 2008	Kusam Meco	05/0612 LDL1203035	
9	Digital Multimeter	5040	Kusam Meco	CHICAGO CONTOCONO POR	
11	SF ₆ Gas Leakage Detector with all accessories	3-001-3-R002	Dilo	121010108 953	
12	SF6 evacuating, filtering & drying	B-143-R01	Dilo	0-15891.3	
13	Relay Operation Timer	SCOT MUT	SCOPE	2000 04 7 4 50	
14	Selective Level Meter	SLM620	APLAB	2000.01 Z 158	
15	Selective Level Generator	SLG620	APLAB	H003TTE041102	
16	Online DC Earth Fault Locator	Digital DC 361P		HO03TTE0312003	
17	Distance to Fault Locator Offline with		TAURUS	7609	
	Signature Analysis	MAX-3	TAURUS	5758	
18	Protection Relay Test Set	K68i	KINGSINE	201001030	

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