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CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED

(A Government of Chhattisgarh Undertaking)

OFFICE OF THE CHIEF ENGINEER (COMMERCIAL & PLANNING)

3rd Floor, State Load Dispatch Building, Danganiya, Raipur (C.G.) - 492013

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No. 02-12/PL 132 KV-S s-88 742

Raipur. dtd. 15.07.2016

To,

- 1) The ED (O&M) (R-R), CSPDCL, Raipur.
- 2) The ED (C&LM), CSPTCL, Raipur
- 3) The CE (P&P) (S/s O&M)/(Civil), CSPTCL Raipur.
- 4) The SE, O/O the MD, CSPTCL, Raipur.
- 5) The S.E. (EHT:C&M)/(T&C)/(Civil-Trans.) CSPTCL, Bhilai Raipur.
- 6) The EE (EHT-Constn.) Dn. CSPTCL, Raipur.
- 7) The EE (Civil-Trans-HQ) Dn. CSPTCL, Raipur
- 8) The EE (S/s-II)/(MRT) Dn. CSPTCL, Raipur.
- 9) The EE (Comm.)/(Store)/(Work-Shop), CSPTCL, Bhilai.
- 10) The RAO, CSPTCL, Raipur.
- 11) The Drawing Section O/o CE (P&P) CSPTCL, Raipur.
- 12) Estimate file.

Sub: Estimates for construction of 132/33 KV S/s at Indagaon (Deobhog), Distt. Gariyaband and associated 132KV Line and 132 KV feeder bay.

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The BoD of CSPTCL has accorded administrative approval for construction of 132/33 KV S/s at Indagaon (Deobhog), Distt. Gariyaband and associated 132KV Line and 132 KV feeder bay. Approval is subject to the condition that the Tender for this work shall be initiated only after ensuring, CSERC approval, Forest approval, Budget Provision, Possession of Land, Loan tie up & Availability of equity.

The CE(C&P) CSPTCL Raipur has accorded technical sanction to the following estimates:

S. No	Name of Works	Estt. No. & Date & Sap No.	Amount	Transmiss ion Scheme/C ode
01	Estimate for constn. of 1x40MVA, 132/33KV X-mer at 132/33 KV S/s Indagaon (Deobhog) Distt. Gariyaband.	44-425-8888-16-0069 dtd.15.07.2016, Sap Gr.No. Y284442516.0002 I.O. No. Y28425160016 (EHT : constn.) I. O. No. Y16425160011 (Civil-Trans-HQ) I.O. No. Y91425160011 (MRT) I.O. No. Y68425160006 (S/s-II) I.O. No. Y26425160026 (Comm.)	Rs. 12.93 Crore (Rs. Twelve Crore Ninety Three Lakhs Only.)	132 KV S/s (425)

OFFICE OF THE CHIEF ENGINEER
EHT (CONSTR.) Dn. CSPTCL RAIPUR
Receipt No. 570
Date 19/07/16

For

By

For

By

For

By

For

By

For

By

For

By

DA/AE(O)/EE 19/7/16

Executive Engineer
EHT (Constr.) Dn. CSPTCL RAIPUR

	Estimate for constn. of 132 KV DCSS Nagari - Indagaon line.(Approx 64 KM)	44-415-5228-16-0070 dtd. 15.07.2016 Sap Gr. No. Y284441516.0006 I.O. No. Y28415160027(EHT: constn.)	Rs. 52.50 Crore (Rs. Fifty Two Crore Fifty Lakhs Only)	132 KV line (415)
03	Estimate for Const. of 01 No. 132 KV feeder bay at 132 KV S/s NAgari for accommodating Nagari-Indagaon line.	44-425-8888-16-0071 dtd 15.07.2016 Sap Gr. No Y284442516.0003 I.O. No. Y28425160017 (EHT: constn.) I.O. NO. Y16425160015 (Civil- HQ) I.O. No. Y91425160013 (MRT) I.O. No. Y68425160008 (S/s-II) I.O. No. Y26425160032 (Comm.)	Rs. 1.45 Cr. (Rs. One Crore Fourty Five Lakhs Only)	132 KV S/s (425)

The work may be taken up after observing all the requirements, as per Guide line of Task Force Report issued by CEA in Aug. 2005 phase – II (i.e. Project Execution Phase Condition 2) of Trans Project & should be followed strictly before execution of work. A copy of the sanctioned estimates are enclosed herewith.

Please ensure that completion report is furnished within three months after completion of work.

Encl: As above.

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15.07.2016

Suptdg. Engineer (PL)
O/o CE (C&P) CSPTCL, Raipur

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Executive Engineer
EHT (Constn.) Dn. CSPTCL RAIPUR

REPORT

	NAME OF WORK	Estimate for construction of 132 KV DCSS Nagari-Indagaon line .(Approx 64 Km.)
2	COST OF WORK	Rs.52.50 Crore (Rs.Fifty Two Crore Fifty Lakhs Only)
3	History & Scope	BoD of CSPTCL in it's meeting held on dtd.13.06.2016 has accorded approval for construction of 132/33 KV DCSS Nagari-Indagaon line . Accordingly, the estimate has been prepared.
4	RATES	The rates are taken as per approved schedule of rates for the year 2016-17.
5	SCHEME	Capital Work Scheme (415).
6	OPERATING DIVISION	THE EE (EHT: CONST.) Dn. CSPTCL,Raipur.
7	Allocation No.	A076610

JPDT. ENGINEER [PL]

O/o CE (C&P) CSPTCL,RAIPUR.

EXECUTIVE ENGINEER [PL]
O/o CE (C&P) CSPTCL,RAIPUR

ESTIMATE TECHNICALLY SANCTIONED

Estt.No. 44-415-5228-16-0070. dtd. 15.07.2016

Sap Gr. No. -Y284441516.0006

Internal Order No. -Y28415160027 (EHT:C)

For Rs. 52.50 Crore (Rs.Fifty Two Crore Fifty Lakhs Only)

Chargable to Capital Work Scheme (415).

Allocation No.A076610

CHIEF ENGINEER [C&P]
CSPTCL, RAIPUR

Executive Engineer
EHT (Constn.) Dn. CSPTCL RAIPUR

ABSTRACT

Estimate for construction of 132/33 KV DCSS Nagari-Indagaon line .

Route length : 64
KM

S No.	Particulars	Amount (Rs.)
1	Supply of Towers , Conductor, Ground wire, insulator, accessories and hardwares etc. (Schedule A)	122647880.00
2	Line Erection work as per Schedule-B	59665500.00
3	Sub Total(1+2)	182313380.00
4	Contractor's overhead & profit @ 10% on item No. 3	18231338.00
5	Sub Total (3+4)	200544718.00
6	Way leave clearance & Forest Compentation Charges as per schedule -C	255787585.60
7	Sub Total(5+6)	456332303.60
7	Contingencies @3% HQ estt/Engg 3.82 and special T &P / Vehicle @ 1% total 7.82 % on item no.7	35685186.14
8	Sub Total (6+7)	492017489.74
9	Builing Construction and other welfare cess @1% on item no.8	4920174.90
10	Service tax @ 15% (on item no. 2)	8949825.00
11	Schedule for chrges for expenditure for land use (Schedule-D)	17880930.00
12	Total (8+9+10+11)	523768419.64
	Say Rs.	52.50crore

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SUPDT. ENGINEER [PL]
O/o ED[C&P] C.S.P.T.C.L., RAIPUR

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EXECUTIVE ENGINEER [PL]
O/o ED[C&P] C.S.P.T.C.L., RAIPUR

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Executive Engineer
EHT (Constn.) Dn. CSPTCL RAIPUR

Schedule "A"

(Material Element)

Estimate for construction of 132 KV DCSS Nagari-Indagaon line.

Route length : 64 KM

Item	QTY	Unit	Rate	Amount (in Rs)
Supply of Towers, Super structures stubs & Templates:-				
DN2 Type Tower and Stub	142			
+3 Mtr extension	18			
+6 Mtr extension	5			
+9 Mtr extension	3			
II DN30 Type Stub and Tower	20			
+3 Mtr extension	4			
+6 Mtr extension	2			
+9 Mtr extension	2			
III DN60 Type Tower & Stub	50			
+3 Mtr extension	8			
+6 Mtr extension	3			
+9 Mtr extension	2			
IV Stub setting template for DN-30	2			
V Stub setting template for DN-60	3			
VI Stub setting template for DN-0	5			
I Supply of Tower				
a) Cost of raw steel	875	MT	52000	45500000.00
b) Cost of Febrication	875	MT	12000	10500000.00
c) Cost of painting Galvinization	875	MT	25000	21875000.00
2 G.I.Nut & Bolts and Washers	40	MT	90000	3600000.00
			TOTAL	81475000.00
2 Conductor & Ground wire				
i 130 Sq.mm Cu- equivalent ACSR panther conductor	195.00	KM	144220	28122900.00
ii 95 kg/mm sq. 7/3.66 mm Ground wire	65	KM	62960	4092400.00
			TOTAL	32215300.00
3 Conductor Accessories				
i Mid span Joints	100	Nos.	400	40000.00
ii Vibration dampers	1320	Nos.	370	488400.00
iii Repair sleeves	60	Nos.	170	10200.00
			TOTAL	538600.00
4 Ground wire Accessories				
i Suspension assembly for earth wire	145	Nos.	340	49300.00
ii Tension assembly for Earth wire	150	Nos.	370	55500.00
iii Mid span Joints	25	Nos.	70	1750.00
iv Repair sleeves	15	Nos.	90	1350.00
v Copper earth bond	300	Nos.	390	117000.00
vi Vibration dampers	440	Nos.	340	149600.00
			TOTAL	374500.00

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22/11/2019

Executive Engineer
EHT (Constn.) Dn. CSPTCL RAIPUR

	Item	QTY	Unit	Rate	Amount (in Rs)
	Conductor hard wares				
	Single tension	403	Nos.	1100	443300.00
	Double Tension	33	Nos.	2100	69300.00
i	Single Suspension	396	Nos.	1400	554400.00
iv	Double Suspension	30	Nos.	2600	78000.00
	TOTAL				1145000.00
6	Disc Insulator				
i	90 KN Disc Insulator	4700	Nos.	480	2256000.00
ii	70 KN Disc insulator	4200	Nos.	450	1890000.00
	TOTAL				4146000.00
7	Miscellaneous				
i	Enamelled danger Board	212	Nos.	280	59360.00
ii	Enamelled Number plate	212	Nos.	280	59360.00
iii	Phase/circuit plate	212	Nos.	280	59360.00
iv	Earthing Set	212	Nos.	2800	593600.00
v	7/8 SWG Galvanised G. wire	5	MT	61400	307000.00
vi	Anticlimbing Device	212	sets	7900	1674800.00
	TOTAL				2753480.00
	GRAND TOTAL (A)				122647880.00

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 O/o CE[C&P] C.S.P.T.C.L., RAIPUR

SSH
 EXECUTIVE ENGINEER [PL]
 O/o CE[C&P] C.S.P.T.C.L., RAIPUR

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 Executive Engineer
 EHT (Constr.) Dn. CSPTCL RAIPUR

Schedule "B"

(Labour Element)

Estimate for construction of 132 KV DCSS Nagari-Indagaon line .

		Route length : 64 KM			
No.	Item	Unit	Qty	Rate	Amount in Rs.
1	Preliminary survey & measurement of S.R. etc.	KM	64	8000	512000.00
2	Detailed survey & Profiling	KM	64	12000	768000.00
3	Check survey including site clearance	KM	64	8000	512000.00
4	Soil classification (Bore log data at every	No.	64	5500	352000.00
5	Excavation :				
a)	Normal/ Intermediate	Cum	4500	300	1350000.00
b)	WET /BC Soil	Cum	8700	300	2610000.00
c)	PS/FS Soil	Cum	3000	340	1020000.00
d)	Soft rock/Submerged Fissured Rock Soil	Cum	4500	800	3600000.00
a)	Sandy Soil	Cum	400	360	144000.00
b)	Hard rock	Cum	500	1540	770000.00
6	Setting of Template & Stub Setting	Loc.	212	6000	1272000.00
7	Concreting including lean concrete, back filling mugg, coupng. & curing(including cost of cement, sand, metal and water etc.) with 1:3:6	Cum	265	7500	1987500.00
8	Concreting including lean concrete, back filling mugg, coupng. & curing(including cost of cement, sand, metal and water etc.) with 1:1.5:3	Cum	2100	10000	21000000.00
9	Tower Erection	MT	867	8000	6936000.00
10	Stringing of Conductor and groundwire for 132 kv line DCSS with 3Nos. Panther Conductor and 01 groundwire	KM	64	60000	3840000.00
11	Labour charges for Reinforcement including Tor Steel and cost of Binding wire	MT	162	60000	9720000.00
12	Welding of Nut and bolts up to bottom cross arm	Loc	212	10000	2120000.00
13	Revetment of Locs.	LS	LS	LS	500000.00
14	Counterpoise earthing	Mtr	20	800	16000.00
15	Final checking and rectification, fixing of ACD, danger board and Number plate	Loc	212	3000	636000.00
Total					59665500.00

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EIT (Constn.) Dn. CSPTCL RAIPUR

SCHEDULE-C
Draft Estimate for construction of 132 KV DCSS Nagri- Indagaon line

Tentative forest involved: 43 Km

(WAY LEAVE CLEARANCE AND FOREST COMPENSATION)

No.	Item	Unit	Qty	Rate	Amount
1	Registration fee for demand of forest land for its use other than forestry work (Non refundable)	Each	1	6000	6000
2	Processing fee applicable for diversion of forest land (non refundable)				
(I)	Up to 40 Hectare	Each	0	18000	0
(II)	From 41 Hectares to 100 Hectares	Each	0	23000	0
(III)	More than 101 to 250 Hectares	Each	1	46000	46000
4	More than 251 Hectares	Each	0	87000	0
3	Vriksha Vidohan (Tree cutting) Transportation, Stacking charges, Fire Protection charges etc.	KM	43	21000	903000
4	Compensatory afforestation, (=116.1Hax2)	Hectare	232	545656	126701323.2
5	Cost of Medicinal plant in corridore. (=3mtr x43km*1000/10000=3 ha)	Hectare	13	545656	7038962.4
6	Net present value for quality II/III type D forest	Hectare	116	1043000	121092300
7	Cost of Land to be acquired by CSPTCL	Acre	0	0	0
Total					255787585.6

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