



RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LTD.

Corporate Identity Number (CIN) : L40109RJ2000SGC016485
Regd. Office : Vidyut Bhawan, Jyoti Nagar, Jaipur -302 005
(AN ISO 9001:2015 Certified Company)

OFFICE OF THE SUPERINTENDING ENGINEER (Contracts-II)

MM Building of RVPN, Old Power House Premises ,Near Ram Mandir, Banipark, Jaipur-302006
Tele.:- 0141 2208919,Cell 9413382626,Fax No.:- 01412208924 Email - se.contract2@rvpn.co.in

No. RVPN/ SE (Contracts-II)/ XEN-4/F. BSR /D. 845 Dated 26/09/19

The Chief Engineer (T & C),
RVPN, Jaipur.

The Chief Engineer (T & C),
RVPN, Jodhpur.

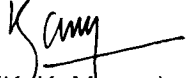
The Chief Engineer (T & C),
RVPN, Ajmer.

Sub: Revised BSR for Construction of EHV Lines on Labour contract basis (Base Date 01.04.2017).

As per decision of the WTD's level Purchase Committee, modifications into the BSR as on 01.04.2017 for carrying out Construction of 220 KV and 132 KV lines on labour contract basis, have been approved in view of resolve to field constraints for preparing estimate through the BSR. The revised BSR (Base Date 01.04.2017) may kindly be circulated to all the field officers under your control for further needful.

The above BSR is effective from the date of issue of this letter.

Encl: As Above.


(K.K. Meena)
Superintending Engineer
(Contracts-II)

Copy along with enclosures forwarded to the following for further needful:-

1. The Chief Engineer (Contracts), RVPN, Jaipur.
2. The Superintending Engineer, (_____), RVPN, _____.
3. The Executive Engineer (_____), RVPN, _____.


Superintending Engineer
(Contracts-II)


RAJASTHAN RAJYA VIDHUT PRASARAN NIGAM LTD

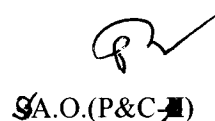
REVISED BASIC SCHEDULE OF RATES FOR ERECTION OF UNIT QUANTITY ITEMS OF EHV LINE ON LABOUR CONTRACT BASIS

- 1) The rates for the erection works given in this BSR are inclusive of all types of labour charges, but exclusive of GST & insurance charges etc.
 2) The base date for rates given in this schedule is 1.04.2017.

S. No	Particulars	Unit	Unit Rate for BSR of 1.04.2017 in ₹
1	<u>Detail Survey as per tentative route</u> which includes the following major activities- Pegging of line route, providing of survey pillar at an interval of 3-4 KM in the line route with required jungle clearance for survey, profile preparation of approved route on graph sheet and marking of offset on either side of line, marking of side clearance for hills, sand dunes etc, as per specification and tower scheduling.	kM	8756 *
2	<u>Check survey as per approved route of line which includes -</u> Re-checking of the line route as per approved profile, chainage, tower center marking, pit marking, bisection of angle tower as required at site.	kM	3255 *
3	<u>Excavation</u> Excavation, excluding back filling, including shoring, shuttering, dewatering, etc. upto the required depth as per foundation specification/drawings.		
	(i) Any soil, soft rock other than hard rock	CUM.	392 *
	(ii) Hard rock (with blasting subject to permission or without blasting)	CUM.	1269 *
4	<u>SETTING OF TEMPLATE & STUB/ANCHOR BOLT</u> (A) Setting of template & stub/ anchor bolt & removal after concreting, excluding cost of excavation and concreting but including back filling with excavated/ borrowed earth (with lead & lift) in layers with ramming and watering as per specification.		
	(i) Towers including extension upto 9 Meters	MT	17327 *
	(ii) Special towers for any span including extension	MT	20829 *
	(B) Anchoring of steel in the hard rock foundation and for excavating holes up to 0.5 cum on lift upto 1.5 M	Nos.	250 ,
5	<u>CONCRETING:</u> Providing and laying cement concrete for all types of foundation as per latest ISS:456 including cement, sand, stone aggregate 20mm nominal size, water etc., preparing surfaces, shuttering, mixing, placing, ramming, curing, finishing as per specification and drawings.		
	(i) 1:4:8 Mix	CUM.	7575 *
	(ii) 1:3:6 Mix	CUM.	8525 *
	(iii) 1:2:4 Mix	CUM.	8784 *
	(iv) 1:1.5:3 Mix	CUM.	10715 *
	(v) Rate for mortar ratio 1:1	CUM.	5331 *


AEN-1(Contracts)


XEN-4(Contracts)


SA.O.(P&C)


SE(Contracts-II)




RAJASTHAN RAJYA VIDHUT PRASARAN NIGAM LTD

REVISED BASIC SCHEDULE OF RATES FOR ERECTION OF UNIT QUANTITY ITEMS OF EHV LINE ON LABOUR CONTRACT BASIS

- 1) The rates for the erection works given in this BSR are inclusive of all types of labour charges, but exclusive of GST & insurance charges etc.
 2) The base date for rates given in this schedule is 1.04.2017.

S. No	Particulars	Unit	Unit Rate for BSR of 1.04.2017 in ₹
6	Cutting, bending, welding of joints if required, fixing and placing of steel reinforcement as per specification and drawings including material.	MT.	61496
7	<u>EARTHING:</u>		
	(A) Earthing of towers with pipe type earthing excluding the supply of pipes, wires, flats & connectors, but including coke/charcoal, etc., excavation, augering and backfilling in all types of soil.	Set	1568
	(B) Earthing of towers legs with counterpoise type earthings excluding supply of materials but including excavation and backfilling in all types of soil.		
	(i) each set by laying 4 wires each 15m long at a depth of 600mm	Set	1960
	(ii) each set by laying 4 wires each 25m long at a depth of 600mm	Set	3271
8	<u>ERECTION OF TOWERS:</u> Erection of super structures including D-shackles, ACD, Hangers, U-Bolts, step bolts, danger plate, phase plate, number plate etc. Also including tack welding of bolts & nuts upto bottom cross arm/beam level including application of Zinc Rich paint		
	i) Erection of towers (with extensions upto 9 Meters)	MT	4876
	(ii) Erection of special towers (with extensions)	MT	7212
9	Merged in Sr. No. 8		
10	Merged in Sr. No. 8		
11	Merged in Sr. No. 8		
12	Erection of substation structures including leveling, setting of stub & Tighting, Punching of Nuts & Bolts and tack welding upto beam level as per specification.	MT.	5299
13	<u>CONDUCTOR STRINGING</u>		
	(A) Stringing of ACSR Panther including hoisting of insulator string, laying, jointing & tensioning of conductor, clamping with Armour rods and fixing of vibration damper per route KM of the line.		
	(i) Single conductor	km	9624
	(ii) Single conductor for river crossing	km	12543
	(B) Stringing of ACSR Zebra including hoisting of insulator string, laying, jointing & tensioning of conductor, clamping with Armour rods and fixing of vibration damper per route KM of the line.		
	(i) Single conductor	km	12332
	(ii) Single conductor for river crossing	km	16148


AEN-(Contracts)


XEN-4(Contracts)


Sr. A.O. (P&C)

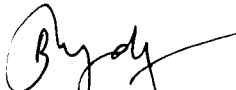

SE(Contracts-II)
Page 2 of 5


RAJASTHAN RAJYA VIDHUT PRASARAN NIGAM LTD

REVISED BASIC SCHEDULE OF RATES FOR ERECTION OF UNIT QUANTITY ITEMS OF EHV LINE ON LABOUR CONTRACT BASIS

- 1) The rates for the erection works given in this BSR are inclusive of all types of labour charges, but exclusive of GST & insurance charges etc.
 2) The base date for rates given in this schedule is 1.04.2017.

S. No	Particulars	Unit	Unit Rate for BSR of 1.04.2017 in ₹
14	<u>EARTHWIRE STRINGING</u>		
	(A) Stringing of galvanised steel stranded wire including laying, jointing & tensioning, clamping, clipping and fixing vibration damper and earth bond etc.		
	(i) One No. 7/3.15mm galvanised wire	kM	6713
	(ii) One No. 7/4.00mm galvanised wire	kM	7834
	(iii) Two No. 7/3.66mm galvanised wire	kM	11751
	(B) Stringing of galvanised steel stranded wire including laying, jointing & tensioning, clamping, clipping and fixing vibration damper and earth bond etc. per route KM of the line for river crossing section, i.e., from Anchor tower to Anchor tower for regular flowing river only.		
	(i) One No. 7/3.15mm galvanised wire	kM	8726
	(ii) One No. 7/4.00mm galvanised wire	kM	10195
	(iii) Two No. 7/3.66mm galvanised wire	kM	15265
	15	<u>DISMANTLING OF TOWERS:</u>	
Dismantling of super structures alongwith extensions, having tack welded Bolts & Nuts, including removing of D shackles, hangers, U-Bolts, step bolts, ACD, Danger plate, number plate, Phase plate of tower including transportation from site to our store and stacking of all material			
(A) 132 KV and 220KV S/C & D/C Towers (all types)		MT.	5846
(B) 400 KV S /C & D/C Towers (all types)		MT.	6740
(C) 220KV D/C Special Tower		MT.	8209
(D) 400KV S/C & D/C Special Tower		MT.	9504
(E) Sub-Station Structures	MT.	5846	
16	<u>DESTRINGING OF CONDUCTOR/ EARTH WIRE</u>		
	(A) Destrining upto ACSR panther conductor : Dismantling of vibration dampers and armour rods, removal of conductor from clamps and fitting in rollers, detensioning, dehoisting of insulator string as required and collecting the material & depositing the same in our store and stacking.		
	(i) Single conductor	kM	10590
	(B) Destrining of ACSR Zebra conductor : Dismantling of vibration dampers and armour rods, removal of conductor from clamps and fitting in rollers, detensioning, dehoisting of insulator string as required and collecting the material & depositing the same in our store and stacking.		
(i) Single conductor	kM	13565	


AEN-II(Contracts)


XEN-4(Contracts)


S.A.O. (P&C)


SE(Contracts-II)


RAJASTHAN RAJYA VIDHUT PRASARAN NIGAM LTD

REVISED BASIC SCHEDULE OF RATES FOR ERECTION OF UNIT QUANTITY ITEMS OF EHV LINE ON LABOUR CONTRACT BASIS

- 1) The rates for the erection works given in this BSR are inclusive of all types of labour charges, but exclusive of GST & insurance charges etc.
 2) The base date for rates given in this schedule is 1.04.2017.

S. No	Particulars	Unit	Unit Rate for BSR of 1.04.2017 in ₹
	(C) Destrining of Earth wire : Dismantling of earth bonds, vibration dampers, declipping & fitting in rollers, detensioning and collecting the material & depositing the same in our store and stacking.		
	(i) One No. 7/3.15mm galvanised wire	kM	7374
	(ii) One No. 7/4.00mm galvanised wire	kM	8611
	(iii) Two No. 7/3.66mm galvanised wire	kM	12931
17	<u>RESTRINGING OF CONDUCTOR/EARTH WIRE</u>		
	(A) Restringing of ACSR Panther conductor: Dismantling of vibration dampers and armour rods, fitting in rollers, de-tensioning, holding & lowering of conductor, de-hoisting of insulator string as required, adding/ removing and jointing of conductor, hoisting of insulator string, lifting of conductor into rollers and re-tensioning, jointing, fitting of armour rods and and vibration dampers and clamping per route KM of the line section to be restrung dismantled material not re-used to be deposited in our stores & stacked		
	(i) Single conductor	kM	9624
	(B) Restringing of ACSR Zebra conductor: Dismantling of vibration dampers and armour rods, fitting in rollers, de-tensioning, holding & lowering of conductor, de-hoisting of insulator string as required, adding/ removing and jointing of conductor, hoisting of insulator string, lifting of conductor into rollers and re-tensioning, jointing, fitting of armour rods and and vibration dampers and clamping per route KM of the line section to be restrung dismantled material not re-used to be deposited in our stores & stacked		
	(i) Single conductor	kM	12332
	(C) Restringing of Earthwire: Dismantling of earth bond, vibration dampers, declipping & fitting in rollers, de-tensioning, holding & lowering of Earthwire, adding/ removing and jointing of Earthwire, lifting into rollers and re-tensioning, jointing, clipping & fitting of vibration dampers & earthbond per route KM of the line section to be restrung. Dismantled material not re-used to be deposited in our stores & stacked.		
	(i) One No. 7/3.15mm galvanised wire	kM	6713
	(ii) One No. 7/4.00mm galvanised wire	kM	7834
	(iii) Two No. 7/3.66mm galvanised wire	kM	11751


AEN-I(Contracts)


XEN-4(Contracts)


Sr.A.O.(P&C)

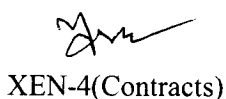

SE(Contracts-II)

RAJASTHAN RAJYA VIDHUT PRASARAN NIGAM LTD
REVISED BASIC SCHEDULE OF RATES FOR ERECTION OF UNIT QUANTITY ITEMS OF EHV
LINE ON LABOUR CONTRACT BASIS

- 1) The rates for the erection works given in this BSR are inclusive of all types of labour charges, but exclusive of GST & insurance charges etc.
 2) The base date for rates given in this schedule is 1.04.2017.

S. No	Particulars	Unit	Unit Rate for BSR of 1.04.2017 in ₹
18	<u>RIVETMENT OF TOWERS</u>		
	(A) Providing and laying cement concrete including curing, compaction etc. complete using stone aggregate 40 mm nominal size (crusher broken) in foundation plinth, using 1 Cement: 5 Sand: 10 aggregate mix.	CUM.	2263 ⁶
	(B) Random rubble stone masonry for rivetment in 1:5 cement sand mortar including providing and fixing 100mm dia PCC drain pipe & raised and cut-pointing on stone masonry in 1:3 cement sand mortar excluding excavation but including Back filling inside rivetment using excavated/ borrowed earth (with all lead & lift) in layers not exceeding 20cm in depth & consolidating each deposited layer by ramming and watering.	CUM.	2167 ¹
	(C) Random rubble dry stone pitching including preparing surface etc. complete with raised & cut pointing in cement sand mortar 1:3, curing etc.	CUM.	780 ¹
	(D) Cement concrete coping grade 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate) rounding off edges etc. but excluding the cost of nosing of steps etc. complete for 75mm thick with 20mm thick nominal size aggregate	Sq.Mtr.	348 ¹
	(E) Brick masonry in foundation & plinth with bricks of class designation 75 in cement mortar 1:5 (1 cement : 5 coarse sand)	CUM.	2786 ¹
	(F) Brick on edge flooring with bricks of class designation 75 including pointing in cement mortar (1:3) complete laid on 12mm thick bed of cement sand mortar 1:6.	Sq.Mtr.	356 ¹


AEN-1(Contracts)


XEN-4(Contracts)


Sr.A.O.(P&C)


SE(Contracts-II)