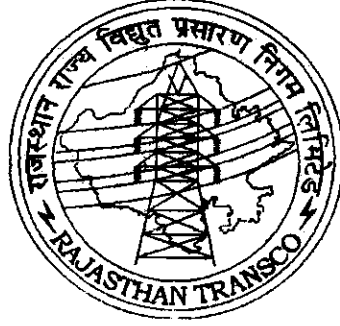


# RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED



**BID DOCUMENT FOR  
CONSTRUCTION OF 2 Nos 220 KV BAYS (NPH-I & II) & BUS  
COUPLER BAY AT 220 KV GSS JODHPUR  
UNDER (T&C) CIRCLE JODHPUR  
SPECIFICATION No. RVPN /SE/T&C/JU / TN- 22**

1. Bid Cost – Rs. 1000/- (+ GST @ 18%)
2. Bid Security – Rs. 6218/-
3. Estimated cost – Rs. 310900/-
4. Last Date of Submission – 12.10.2017 upto 15:00 PM
5. Date of opening tender – 12.10.2017 upto 16:30 PM

23<sup>rd</sup> September, 2017

  
SUPERINTENDING ENGINEER (T&C)  
RVPN, JODHPUR



**RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED**

(An ISO 9001:2008 certified Company)

OFFICE OF THE SUPERINTENDING ENGINEER (T&C)

RVPNL, JODHPUR

Tel. - 0291-2740487 E-mail se.tnc.jodhpur@rvpn.co.in

NO. RVPN / S.E./T&C/ JU / S. PUR / File D.

DATED

**Notice Inviting Bid / Tender**

NIB (Single stage bidding) are invited from the competent/ experienced contractors for execution of following works on labor rate contract as per our specifications and terms & Conditions mentioned below:

TN	PARTICULAR	TENDER COST (IN Rs)	BID SECURITY in Rs.	ESTIMATE D COST (In Rs.)	LAST DATE OF SUBMISSION OF TENDER	DATE OF OPENING OF BID
TN- 22	Cosntruction of 2 Nos. 220 kV Bay (NPH-I & II) & Bus coupler Bay at 220 KV GSS Jodhpur	1000/- (+GST @18%)	6218/-	310900/-	12.10.2017 Upto 15:00 hrs	12.10.2017 16:30 hrs

**A. Scope of the work:**

1. This work is a labour rate contract and based on the BSR 01/04/2017.
2. This work is involved to take delivery of required, equipments, structures, hardwares, cables, conductors etc from the departmental site stores and transport them to the work place, in safe manner.
3. To erect the structure on civil foundation as the instruction of the Engineer In-charge and approved drawings. Civil foundation to be casted by the Civil wing.
4. To erect/installed required equipments on the structure as per the drawing and instructions of the Engineer In-charge.
5. The stringing of Bus Bar and cable lying with termination will have to be done by the contractor as per the instructions of the Engineer In-charge.
6. The lying of earth mash, earth electrode, earth riser as per instructions of the Engineer In-charge. This includes welding joints (Lap or butt joints as per instructions of the Engineer In-charge).
7. To do all the works as per the "G-schedule"

**B. Terms & Conditions and Instructions to the bidders:**

1. The Bid should be addressed to the Superintending Engineer (T&C), RVPNL, Jodhpur.
2. This NIB will be govern by the RTPP act 2012 and RTPP rules 2013.
3. This work is being done through single stage bid.
4. The Bid security should be deposited as per the NIB and in the name of 'Accounts Officer (T&C), RVPN, Jodhpur in cash or demand draft. Required tender fees and bid security

*Handwritten signatures and initials.*

4. The Bid security should be deposited as per the NIB and in the name of 'Accounts Officer (T&C), RVPN, Jodhpur in cash or demand draft. Required tender fees and bid security should be deposited on or before due date of the tender. Without EMD tender neither accepted nor opened.
5. Rate mentioned in "G-schedule" are inclusive of all type of labour charges excluding service tax, sales tax & insurance charges etc whereas income tax and any other taxes and duties/laved time to time of the State/Central Government of India, may be deducted from the bill.
6. The RVPN has right to reject bid without arising any reason.
7. The electricity for execution of above work will be provided free of the cost by the Nigam.
8. Tender can be obtained from this office after paying tender cost as given in NIB.
9. The validity of this offer is 120 days from the date of opening of the tender.
10. Completion Time: This work should be completed within 60 days after given layout by the field officer otherwise the penalty will be imposed on the unexecuted work as per the Nigam's rules. However time extinction shall be granted on the genuine reason for example natural hazard, rights and any other genuine reason.
11. Terms of payment: Payment for the erection activities of capacitor bank and associated equipments will be made to the contractor on submission of bills in accordance with the procedure as detailed below:
  - (a) Payment equal to 100% (in case contractor furnished Performance Security deposit by crossed Bank Draft or by way of Bank Guarantee).
  - (b) 90% (In case contractor furnished as undertaking for deduction of performance security amount from his each running and final bill @ 10% of the amount of the bill) of the total value of the work will be paid against monthly running account bills to be submitted to the AEN (T&C) In-charge of the work. This 10% Performance security deposit deducted from each and every bill by the Accounts wing at source. This shall be retained for 12 months from the date of completion of entire work in order subject to acceptance by the work In-Charge.
  - (c) From each and every bill, Income tax and any other taxes, sales tax, GST and duties/laved time to time of the State/Central Government of India, shall be deducted compulsorily from the bills.
  - (d) Deduction, in respect of deficiencies etc. will be made by the Work In-Charge while-passing / checking / verifying the bills and simultaneously be conveyed to the contractor.

## 12. EMPLOYEES PROVIDENT FUND:

You shall have to submit a certificate every month that your establishment is covered under the Employees Provident Fund and Miscellaneous Provisions Act 1952 and is having a separate Code Number with the Provident Fund Commissioner and also that the provident Fund contribution in respect of all the employees employed by you along with Employer's share of contribution etc. is being deposited with the Provident Fund authorities and shall also submit certified photo copies of the challan of deposits. In absence of above, you shall be liable to deposit employee's contribution @ 12% and employer's contribution @ 12.685% of the wages in respect of all the employees engaged by you for the said work with RVPN along with details of the employees, their wages and the amount of contribution as per RVPN CPF Rules every month. In case of non-providing of certificate in annexure-I or Non-providing of details, 16% of contractor's first bill shall be deducted to extend the benefits, under various schemes of the EPF & MP Act., 1952 to the labours/workers. Subsequent bills' payment shall be released only after the contractor provides the names of workers engaged and wages paid to them, so as to

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make adjustment of deducted sum (16%) and extend benefits of EPF & MP Act, 1952. In case the presented bill is a 'first and final bill' and the contractor has neither attached with the bill, a certificate as above nor provided the names of the employed workers and wages paid to them, as per Nomination (Form 'D') and membership of EPS, 1995 (Form-2) duly signed by both (employee and contractor) and for forwarding the same duly countersigned to the circle A.O. concerned for allotment of A/c. Nos. and taking other actions as provided in circular No. 2877 dated 08/11/2005.

**13. Accident safety measures:**

During the work, if any person gets injured due to any accident the compensation if any will be paid by you. No payment will be paid by RVPNL, on this account. You will give an undertaking on Non Judicial Stamp Paper worth Rs 10/- to the effect that RVPNL, will not be responsible for out of injury sustained by your worker due to an accident arising out of the above work and that you will bear entire cost of such injury of compensation to be paid to your workers. The cost of Stamp Paper shall be borne by you. The contractor shall follow safe method of working so that there is no damage to NIGAM's material and also no injury is caused to any of his workers. The contractor shall be fully responsible for safety of his workers and RVPN will not be responsible for any type of accident minor or fatal to any person at work site. Staff Insurance charges, if any, shall be borne by the contractor. All the Workmen engaged / deployed by you at site for execution of work, shall be adequately insured to meet any unforeseen incident. Safety of all the Workmen, movable & immovable property in vicinity shall be the prime object and full care shall be observed during execution of work. Compensation for any "Fatal or Non-Fatal" accident taking place during execution of work shall not be paid or shared by NIGAM. Payment of compensation, if any, for any such "Fatal or Non-Fatal" accident shall be your sole liability. You will instruct all of your workers to not to touch any installation at GSS without the prior permission of the "Work In-Charge" and or "Shift In-Charge" on duty.

**14. Inspection:**

The authority under Zonal Chief Engineer (T&C), Jodhpur and will check as per norms of the work and surprise check of the vendor/supplier premises can be done by the Quality Control, Inspection & Monitoring section of the RVPN's corporate office on a short notice for which all necessary arrangement towards inspection of the RVPN's supply/work order to arranged by the Vendor/supplier, for ensuring quality as per RVPN requirement. The Vendor/Supplier shall also provide all requisite co-operation/assistance and facility for such quality check/inspection.

**15. Wastage:**

Wastage in material shall be allowed as per Nigam's rules, which will be notified in the detailed work order to the successful bidder.

**16. Disputes:**

All disputes, differences, questions whatsoever arising between the purchaser / order placing authority and contractor upon or in relation to or in connection with the contract shall be deemed to have arisen at Jodhpur (Rajasthan) and no courts other than the courts in JODHPUR shall have jurisdiction to entertain or try the same.

The RVPN has constituted settlement committee to settle disputed cases. The supplier / contractor who wish their disputed case to be referred to the above settlement committees shall deposit non refundable requisite fee in cash / demand draft / pay order with the Accounts Officer (T&C), RVPN, Jodhpur and shall furnish receipt thereof with a

17. You should quote your lowest rate in the enclosed "G-schedule" best on RVPN BSR 01/04/2017 in form of % above or below the estimate rate as a whole including GST and insurance charges.
18. An individual item rate having different % will not be accepted.
19. Conditional tender will not be accepted.
20. As per the Govt. of Rajasthan notification dt. 31.05.2016 registration in class 'A' contractor has been made essential. However contractor registered under 'E1' category are also allowed to work in RVPN.
21. Completion Time – Work should be completed within after 60 days from the date of issuing of layout. 15 days are allotted extra for mobilization of men power, T&P. If you fail to do the work in scheduled time you will be liable for penalty @ ½ % per week and maximum 10% of unexecuted work.

  
SUPERINTENDING ENGINEER (T&C)  
RVPN, JODHPUR 

1. I/ We agree to execute the work % above/below the G-Schedule.
2. I/We accept above mentioned terms & conditions.

Signature of the contractor, Name of firm/contractor  
with stamp and date


**RAJASTHAN RAJYA VIDHYUT PRASARAN NIGAM LIMITED**


**G Schedule for construction of 02No'S 220 kV Feeder Bay (NPH-I & II) at 220 kV GSS BASNI AS BSR 01.04.2017**

CODE NO.	DESCRIPTION	SAP Code	Rate	Qty	Amount
1	2	3	4	5	6
<b>1</b>	<b>EARTH MESH WORK</b>				
A.1	Laying of earth mesh with 25mm/28mm dia ,M.S. Rod at depth Of 0.80 metre from top of foundation including excavation of Trench of required depth and backfilling of the same transportation of M.S.Rods from site store to locations, welding of M.S.Rod along the length, at crossings and with earth electrodes as per drawing application of bitumen compound and covering with bitumen impregnated tape on all welded joints, for the type of soil prevalent at 0.80 metre below top level of foundations (M.S.Rod of above sizes & M.S.Flat required shall be made available by RVPN)				
	a) In case electricity is made available by RVPN without charges				
	i) Normal dry soil	PRJ1238	24.00	200	4800.00
	ii) Hard soil/Murram/B;acl cotton soil	PRJ1239	26.00	200	5200.00
	iii) Soft Rock	PRJ1240	35.00	50	1750.00
B.1	Laying of earthing risers of 50x6mm/50x10mm/50x12mm size M.S.Flat at a depth of 0.80 metre from top level of foundations, Including excavation of trench of required depth and backfilling of the same, transportation of M.S.Flat from site store to location preparation of risers, bending as per requirement (after heating if necessary), fixing on and welding/bolting to equipment/ structure abd ceajs if structures, laying in the trench, welding to the earth mesh of M.S. Rod as per drawing including welding of extra length of M.S.Flat if required, application of bitumen compound and covering with bitumen impregnated tape on all welded joints, painting of all surface of risers above ground level with red oxide and green paint, for the type of soil prevalent at 0.80 metre below top level of foundations (M.S.Rod of above Sizes & M.S .Flat as required shall be made available by RVPN)				
	a) In case electricity is made available by RVPN without charges				
	i) Normal dry soil	PRJ1258	27.00	400	10800.00
	ii) Hard soil/Murram/B;acl cotton soil	PRJ1259	28.00	250	7000.00
	iii) Soft Rock	PRJ1260	38.00	50	1900.00
C.1	Placing/Driving of earth electrode of 25/28mm dia M.S.Rod of Length 3.30 meters (approx) to a depth of 3.80 meters from the top Level of foundation including excavation of pit as required and back filling of the same, transportation of M.S.Rod from site store to locations, cutting of M.S.Rod to desired length preparation of one end as spike if necessary, welding of earth electrode to earth mesh of M.S. Rod as per drawing, application of bitumen compound and covering with bitumen impregnated tape on all welded joints for the type of soil prevalent at 3.80 meters below top level foundations (M.S.Rod of above sizes & M.S.Flat as required shall be made available by RVPN)				
	a) In case electricity is made available by RVPN without charges				
	i) Normal dry soil	PRJ1278	200.00	12	2400.00
	ii) Hard soil/Murram/Black cotton soil	PRJ1279	333.00	6	1998.00
	iii) Soft Rock	PRJ1280	532.00	2	1064.00
<b>2</b>	<b>ERECTION OF SUB-STATION STEEL STRUCTURES</b> columns, Beams ,lighting mast and equipment structures (excluding Circuit Breakers and nuts & bolts, washers etc from site store to locations Their assembly, placing on foundation, fixing of template, with Foundation, fixing of template, with foundation bolts as required Leveling and preparing for grouting as required but excluding Grouting, erection after grouting and tightening & punching of nuts & bolts. (Maximum height of structures up to 20 meters)	PRJ1306	2321.00	25	58025.00
<b>3</b>	<b>BUS-BAR WORK:</b>				
A.	STRINGING of 220KV,132KV, 33KV & 11KV Bus Bar of ACSR conductor, including transportation of conductor,disc Insulator and tension hardware from site stores to location laying And cutting required length of conductor, cleaning and assemblyof disc insulators as required along with fitting of bolted type or compression tape tension hardware as made available (compression machine shall be provided by RVPN on rent free basis) making up at one end, stringing of conductors between the beams with specified sag and tension, also equalizing sag and fitting spacer T-Clamps for twin conductor for three plates of conductors in each bus-section				
	ii) Single ACSR Zebra	PRJ1308	1356.00	2	2712.00
B.	JUMPERS OF ACSR conductor ( 3 nos Y- type)between bus To equipment or between equipment to equipment or between bus, including transportation of conductor, disc insulators and hardware from site stores to locations, cleaning and assembly of disc insulators as required along with fitting of suspension hardware and erection as required, cutting required length of conductor making connections, fixing of spacers & spacer T-Clamps as required, tightening of clamps/connectors, dressing etc, for three phases.				
	i) Single ACSR Zebra/Panther Conductor	PRJ1312	333.00	24	7992.00

CODE NO:	DESCRIPTION	SAP Code	Rate	Qty	Amount
4	STRINGING of Earth wire(size 7/3.15 mm or 7/4.00mm) including transportation of earthwire, tension hardware Etc.from site store to locations laying and cutting required Length of earthwire,fitting of bolted type or compression Type hardware as made available (compression machine Shall be provided by RVPN on rent free basis) making up at One end stringing of earthwire between structure peaks with Specified sag and tension, jumpering and connecting earth Bonds, for single earthwire.	PRJ1316	292.00	6	1752.00
5	<b>ERECTION OF SUB-STATION EQUIPMENTS:</b>				
B.	Erection of Current Transformer/Potential Transformer/ Capacitive voltage Transformer /Series Reactor /Residual Voltage Transformer /Neutral Current Transformer with Clamps & connectors, on already erected steel structure including transport-Tation of base frame,fixing of terminal connectors,tightening of nuts & bolts etc. complete in all respect.				
	i) 220KV CT/PT/CVT	PRJ1319	2529.00	15	37935.00
C.	Erection of Lightning Arrestor on already erected steel structure including transportation of Lightning Arrestor,clamps & connectors Surge counter etc. from site store to locations fabrication of base frame Fixing of terminal connectors, surge counter, tightening of nuts and Bolts etc. complete in all respect.				
	i) 220KV	PRJ1323	1996.00	6	11976.00
D	Erection of Isolators on already erected steel structure Including transportation of base frame,P contacts mechanism Box clamps & connectors etc from site store to locations,minor Fabrication as required, and fixing of terminal connectors,etc Adjustment/ alignment of isolator and its earth blade, if provided For their smooth operation and final adjustment if required after Jumpering.				
	i) 220KV				
	a) Without Earth Blade	PRJ1326	4400.00	4	17600.00
	b) With Single Earth Blade	PRJ1327	4899.00	2	9798.00
	d) Tandem	PRJ1329	4899.00	2	9798.00
E.	Erection of Wave trap on already erected structure beam, including transportation of wave trap, disc insulators, hardware, clamps and connectors, etc. from site store to locations, cleaning & assembly of disc insulators alongwith fitting of suspension arrangement and erection, fixing of terminal connectors, etc.				
	i) 220 KV	PRJ1335	807.00	4	3228
G.	Erection of 220KV or 33KV or 132KV Circuit Breaker, including Transportation of equipment, structure members, nuts & bolts, Clamps & connectors, accessories etc. from site store to location, Assembly of support structure, their placing on foundation,levell- ing and p repairing for grouting as required, but excluding grouting. Assembly/placing of support columns/poles mechanism box/control Cubicle, and other accessories as per manufacturer's drawings, Fitting of SF 6 gas pipeline, fabrication of air/ oil pipeline as required, Electrical wiring from pole to control cubicle, fixing of terminal Connectors as required, but excluding commissioning of CB, for all Types of operating mechanism, as required.				
	i) 220 KV	PRJ1338	19216.00	3	57648.00
I.	Erection of Post Insulators on already erected structures including Transportation of P.I's nuts & bolts, clamps & connectors etc.from Site store to locations, fabrication of base frame & assembly if Required, fixing of clamps, etc.				
	i) 220KV	PRJ1342	883.00	12	10596.00
6	Erection of Control & Relay Panels complete in all respect, Including transportation from site store to control room, placingOn foundation/cable trench as per layout, interconnection between Control & Relay panels and with existing panels fixing of site/top Covers and doors earthing to existing earth strip in control room, And relay panel as required.				
	ii) Duplex Panel	PRJ1352	1265.00	3	3795.00
7	Erection of Marshalling Kiosk/Line Matching Unit(LMU)/Line Matching & Distribution Unit (LMDU) complete in all respect Including transportation from site store to location, placing on Foundation/ cable trench as per layout, preparing for grouting Of foundation bolts but excluding grouting etc.				
	i) 220KV or 132KV Marshalling Kiosk	PRJ1355	374.00	3	1122.00
10	<b>LAYING AND TERMINATION OF CABLES:</b>				
A.	Control Cable:				
	i) Laying of P.V.C insulated unarmoured/ armoured control cable of 1.1 KV grade with copper conductor in cable trenches as per specification as required, including transportation of cable drums from site store to locations, laying in cable trenches, cutting to required length, placing them on cable racks/cable trays/ cable batten & dressing, including removing and re-fixing trench covers as required making necessary connections, testing, cable marking on both the terminating ends, etc. as required for all sizes from 2c x 2.5 sq.mm to 20c x 2.5 sq.mm nd 4c x 6 sq.mm.				

CODE NO.	DESCRIPTION	SAP Code	Rate	Qty	Amount
	a) Unarmoured control cable.	PRJ1381	5.00	6000	30000.00
	ii) Fixing of control cable in position with single compression nickel plated brass cable glands conforming to IS: 12943 & having three metal washers and one rubber ring, including preparation of cable and drilling of corresponding holes in gland plates etc. as required, & including cost of cable glands, for each cable gland of size.				
	a) 19mm unarmoured control cable	PRJ1383	44.00	44	1936.00
	c) 25mm unarmoured control cable	PRJ1385	67.00	12	804.00
	iii) Termination of wires of cables with copper conductor using copper terminal ends (pin or ring type as required of Dowell's or equivalent make as approved by the Engineer-in-Charge duly crimped with crimping tool, including making wire ends ready for crimping, ferruling & dressing of wires etc. as required, including cost of terminal ends for all wires, for each cable at both ends for cables of the following sizes.				
	a) 2x x 2.5 sq.mm	PRJ1389	21.00	8	168.00
	b) 3c x 2.5sq.mm	PRJ1390	32.00	8	256.00
	c) 4c x 2.5 sq.mm	PRJ1391	43.00	6	258.00
	f) 12c x 2.5 sq.mm	PRJ1394	128.00	12	1536.00
	h) 18c x 2.5 sq.mm	PRJ1396	191.00	12	2292.00
	In case all the wires of any cable are not got terminated, then a deduction at the rate Rs.6.00 shall be made for each end of wires not terminated.				
	i) 4c x 4.0 sq.mm	PRJ1397	57.00	48	2736.00
	In case all the wires of any cable are not got terminated, then a deduction at the rate Rs.7.00 shall be made for each end of wires not terminated.				
<b>Estimated Cost as per BSR of 01.04.2017 of Erection Charges</b>					<b>310875.00</b>

  
**EXECUTIVE ENGINEER (T & C)**  
**R.V.P.N.L., JODHPUR**

  
**ASSISTANT ENGINEER (T&C)**  
**RVPN JODHPUR**



