



RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED  
CIN: U40109RJ2000SGC016485 (An ISO 9001-2008 Certified Company)  
OFFICE OF THE SUPERINTENDING ENGINEER (T&C)  
CHITTORGARH  
PIN- 312201

Email: < [se.tnc.chittor@rvpn.co.in](mailto:se.tnc.chittor@rvpn.co.in) >

NO: RVPN/SE/T&C/COR/TECH/F.46 /D. 729 / Date 04.11.16

All Registered Contractors (Class E I & E II)  
(T&C) Zone AJMER

Subject: Bay maintenance work at work for the Year 2016-17 under 220 kV  
GSS CHITTORGARH division of this circle

Reference: 1. CLRC order NO: RVPN/SE/SSPC/TK/ A.1/TN-2975/  
CLRC /D.303 dated 18.05.15  
2. CLRC extension order NO: RVPN/SE/SSPC/TK/  
A.1/ TN-2975/CLRC /D: 1151 dated 11.09.15

You are hereby requested to submit your consent latest by closing hours of  
November 15, 2016 positively for carrying out the following work **Under CLRC rates:**  
"Bay maintenance work for the Year 2016-17 under 220 kV GSS  
CHITTORGARH division of this circle."

Serial Number	Name of Work	Tentative Amount	Remarks
1	Bay maintenance at 132 kV GSS SENTHI	71824/-	As per "G Schedule"
2	Bay maintenance at 132 kV GSS AJOLIYA KA KHERA	73843/-	As per "G Schedule"
3	Bay maintenance at 132 kV GSS BAROLI	102314/-	As per "G Schedule"
4	Bay maintenance at 132 kV GSS BEGUN	64474/-	As per "G Schedule"
5	Bay maintenance at 132 kV GSS RASHMI	47232/-	As per "G Schedule"

Kindly give your consent separately for each work. The "G Schedule" is being  
enclosed herewith for your reference with request to submit your consent before schedule date.

Please also submit following detail and certificate along with your consent.

1. Ongoing and completed work detail.
2. Copy of registration certificate as registered contractor.
3. Copy of Tax Clearance Certificate.

SUPERINTENDING ENGINEER (T&C)  
RVPN CHITTORGARH

Copy to: -

1. THE EXECUTIVE ENGINEER (220KV GSS) RVPN CHITTORGARH
2. THE FEEDER MANAGER (T&C) RVPN UDAIPUR

SUPERINTENDING ENGINEER (T&C)  
RVPN CHITTORGARH

**OFFICE OF THE ASSISTANT ENGINEER, 132KV GSS RRVPNL-SENTHI**  
**"G" SCHEDULE**

**NAME OF WORK:- MAINTENANCE WORK OF BAY EQUIPMENTS, TRANSFORMERS, BUS BAR & ASSOCIATED EQUIPMENTS AT 132KV GSS RVPN-SENTHI FOR YEAR-2016-17**

S.N.	DESCRIPTION	UNIT	NO. OF BAY	FREQUENCY	AS PER BSR RATE 01.01.2011	AMOUNT AS PER BSR
1	<b>Maintenance of Bay Equipments</b>					
	Providing of work assistance as given below in Maintenance work of following Bay equipment such as CB, CT, LA, CVT,PT, Isolator, PLCC equipment and corresponding control Relay Panels (All spare, lubricating material and only special T&P shall be provided by the Nigam cleaning material and general T&P shall be arranged by the contractor )					
	a) Checking of tightness of clamps & connectors					
	b) Cleaning of all insulators.					
	c) Attending to oil leakage if any.					
	d) Cleaning of all junction Boxes and secondary terminal boxes.					
	e) Checking of operation of CB through relay verifying various logic and circuit					
	f) Measurement of CB operation timings.					
	g) Checking of isolator operation and its alignments.					
	h) Checking of gas pressures like SF6 & Na in CB and CTs etc.					
	i) Measurement of IR values of Las, CTs and CVTs.					
	j) Washing the equipments in case of oil stains are present then washing to be done with use of detergent solution.					
	k) Lubrication of defined parts of all equipments for required points.					
	l) Cleaning of C & R panel from inside.					
	m) Providing other related work assistance as may be required by incharge.					
1	132KV Bay ( 1No.Supervisor + 6Nos. Workmen )	Each Bay	5	1	1892	9460
1	33 or 11KV Bay ( 1No.Supervisor + 6Nos. Workmen )	Each Bay	11	1	1666	18326
					<b>Total (1) =</b>	<b>27786</b>

<b>2</b>	<b>Maintenance of Power Transformers</b>					
	Providing of work assistance as given below in Maintenance of power transformer for the following types of power transformer. (All spares, lubricating material and only special T&P shall be provided by the RVPN cleaning material and general T&P shall be arranged by the contractor.)					
	a) Cleaning of porcelain of bushing.					
	b) Cleaning of tightness of clamps & connectors.					
	c) Cleaning buchholz relay & surge relays.					
	d) Cleaning of glasses of all oil level indicators.					
	e) Cleaning of marshalling box cubical control etc.					
	f) Attending to oil leakage from body & bushings.					
	g) Checking of oil level in oil filed bushing.					
	h) Checking of drycol air drying system.					
	i) Measurement of IR Value.					
	j) Measurement of earth resistance.					
	k) Testing of PRD.					
	l) Cleaning of Tripping circuits of buchholz & WDG. Oil tempreture controls and protection scheme.					
	m) Checking of OLTC gear operation.					
	n) Checking of auto circuit of cooling bank.					
	o) Taking of oil sample for testing.					
	p) To carryout other special measurement as may be required.					
	q) Providing of other related work assistance as may be required by incharge.					
2	132/33KV (Capacities) for ( 05Nos workmen)	Each TRF.	2	1	1220	2440
2	33/0.4KV & Aux.Supply station transformer for ( 03Nos. Workmen)	Each TRF.	1	1	774	774
					<b>Total (2) =</b>	<b>3214</b>
<b>3</b>	<b>Maintenance of Bus Bars and associated Equipments</b>					
	Providing of work assistance as given below in Maintenance of bus bar of various voltage level ( All spares, lubricating material and only special T&P shall be provided by RVPN, cleaning material and general T&P shall be arranged by contractor.					


	a) Tightening of clamps & connections on overhead bus conductors and gantries (at a maximum height of 25mtrs. Using sefty belts ) also tightening of clamps/ connectors of all bus side associated equipments.					
	b) Checking of operation of bus isolators and there alignment including motorized					
	c) Cleaning of all insulators of suspension and tension setings of bus bars insulators ,bus insulators and bus CVTs/PTs.					
	d) Checking of operation of bus isolators and there aligments including motorized operation.					
	e) Maintenance of operating mechanisum & switches etc.					
	i) Lubrication of all moving parts.					
3	132KV Bus Section (1No. Supervisor+ 4Nos. Workmen)	Each Sec.	4	1	1446	5784
3	33KV Bus Section (1No. Supervisor+ 4Nos. Workmen)	Each Sec.	6	1	1351	8106
					<b>Total (3) =</b>	<b>13890</b>
					<b>TOTAL (1+2+3) =</b>	<b>44890</b>
					<b>Amount as per CLRC (60% above of BSR 2011 ) =</b>	<b>26934</b>
					<b>G .Total =</b>	<b>71824</b>

(Rs = Seventy One Thousand Eight Hundred Twenty Four Only)

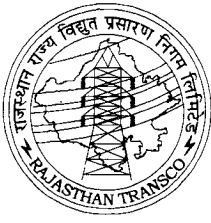
1. Above rates are as per BSR rates-2011 ( Applicable w.e.f. 01.01.2011) for repair and maintenance work of EHV GSS.
2. The quantity of work may be decrease / increase as per site condition.

I /We hereby accept the above rates.

Signature of contractor with full address.

  
 ASSISTANT ENGINEER  
 (Signature)  
 132KV GSS RVPN SENTHI

  
 ASSISTANT ENGINEER  
 132KV GSS RVPN SENTHI

**RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED**

(AN ISO 9001:2008 Certified Company)

**OFFICE OF THE ASSISTANT ENGINEER**

132 K.V. G.S.S., AJOLIYA KA KHERA, POST-PUTHOLI, CHITTORGARH

Ph.-01472-235520 E-mail ID: aen\_132\_akk@rvpn.co.in

Annexure-A

**G-Schedule (For Year 2016-17)****OFFICE OF ASSISTANT ENGINEER, 132 KV GSS, AJOLIYA KA KHERA****Bay Maintenance work of Yard**

S.No. (BSR- 2011)	Description of Works	Frequency	Unit	Rate (As per BSR- 2011)	No. of Bays/ Unit	Total
3.0	<p><b>Maintenance of Bay Equipments:</b></p> <p>Providing of work assistance as given below in maintenance work of following bay equipments such as Circuit Breaker, Current Transformers, Lightning Arrester, Isolator, CVTs, PLCC Equipments and corresponding control and relay panels. (All spares, lubricating materials and only special T&amp;P shall be providing by RVPN. Cleaning material and general T&amp;P shall be arrange by the contactor.)</p> <ul style="list-style-type: none"><li>a) Checking of tightness of clamps and connectors.</li><li>b) Cleaning of All Insulators.</li><li>c) Attending to oil leakage if any.</li><li>d) Cleaning of all junction boxes and secondary terminal boxes.</li><li>e) Checking of operation of CB through relays and verifying various logic and control circuit and annunciation circuits.</li><li>f) Measurement of CB operation timings.</li><li>g) Checking of isolator operation and its alignments.</li><li>h) Checking of Gas pressures like SF<sub>6</sub> and N<sub>2</sub> in circuit breakers/ CTs, etc.</li><li>i) Measurement of IR values of LAs, CTs and CVTs.</li><li>j) Lubrication of defined parts of all Equipments all required points.</li><li>k) Washing the equipments, in case oil stains are present, then washing is to be done with use of detergent solution.</li><li>l) Cleaning of C&amp;R panel from inside.</li><li>m) Providing other related work</li></ul>					

	assistance as may be required by in-charge.					
3.3	132 KV Bay (1 No. Supervisor + 6 Nos. Workmen).	Ones in a Year	Each Bay	1892.00	6	11352.00
3.4	33 KV Bay (1 No. Supervisor + 5 Nos. Workmen).	Ones in a Year	Each Bay	1666.00	9	14994.00
4.0	<p><b>Maintenance of Power Transformers:</b></p> <p>Providing of work assistance as given below in maintenance of power transformers for the following types of power transformers. . (All spares, lubricating materials and only special T&amp;P shall be providing by RVPN. Cleaning material and general T&amp;P shall be arrange by the contactor.)</p> <p>a) Cleaning of porcelain of bushings.</p> <p>b) Checking of tightness of clamps and connectors.</p> <p>c) Cleaning of Buchholz &amp; oil surge relays.</p> <p>d) Cleaning of glasses of all oil level indicators.</p> <p>e) Cleaning of Marshalling Box, cooler control cubicle, thermometer, etc., as provided.</p> <p>f) Attending to oil leakage from transformer body and bushings.</p> <p>g) Checking of oil level in oil filled bushings.</p> <p>h) Checking of Drycol air drying system.</p> <p>i) Measurement of IR values.</p> <p>j) Measurement of Earth Resistance.</p> <p>k) Testing of PRD.</p> <p>l) Checking of tripping circuits of Buchholz &amp; WDG, oil temperature controls and protection scheme.</p> <p>m) Checking of OLT gear operations.</p> <p>n) Checking of auto circuits of cooling Bank.</p> <p>o) Taking of oil samples for testing.</p> <p>p) To carry out other special measurements as may be required.</p> <p>q) Providing of other related work assistance as may be required by work in-charge.</p>					
4.3	132/33 KV & 132/11 KV (all capacities) (5 Nos. Workmen).	Ones in a Year	Each TRF.	1220.00	2	2440.00
4.4	33/11 KV & Auxiliary supply Station Transformer (3 Nos. Workmen).	Ones in a Year	Each TRF.	774.00	1	774.00
5.0	<p><b>Maintenance of Bus Bars and Associated Equipments:</b></p> <p>Providing work assistance as given</p>					

	below in maintenance work of BUS-BARS of various voltage levels.(All spares, lubricating materials and only special T&P shall be providing by RVPN. Cleaning material and general T&P shall be arrange by the contactor.) a) Tightening of clamps & connectors on overhead bus conductors and gantries (at as maximum height of 25 Meter using safety belts). Also, lighting of clamp/connectors of all bus side associated equipments. b) Replacement of worn out clamps & connectors of bus during work under item No. (a). c) Cleaning of all insulators of suspension and tension strings of Bus Bar and insulator of Bus Isolators, Bus CVTs/ PTs. d) Checking of operation of Bus isolators and their alignment including motorized operation. e) Maintenance of operating mechanism and switches, etc. f) Lubrication of all moving parts. g) Providing of other related work assistance as may be required by work in-charge.					
5.3	132 KV Bus Section (1 No. Supervisor + 4 Nos. Workmen).	Ones in a Year	Each Section	1446.00	4	5784.00
5.4	33/11 KV Bus Section (1 No. Supervisor + 4 Nos. Workmen).	Ones in a Year	Each Section	1351.00	8	10808.00
				Total		46152
				Add 60% above as per CLRC		27691.2
				Grand Total		73843.2
				(R/O) =		73843
	<b>Say as, In Words (Rs. Seventy Three Thousand Eight Hundred Forty Three)</b>					

*[Handwritten Signature]*  
 ASSISTANT ENGINEER  
 132 KV GSS  
 AJOLIYA KA KHERA, CHITTORGARH

*[Handwritten Signature]*  
 ASSISTANT ENGINEER (132 KV GSS)  
 AJOLIYA KA KHERA, CHITTORGARH



# RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED

( An ISO 9001:2008 certified Company )

OFFICE OF THE ASSISTANT ENGINEER (132 KV GSS) BAROLI DISTT. CHITTORGARH

## SCHEDULE OF QUANTITY AND PRICES FOR THE MAINTENANCE WORK OF 132 KV GSS ,Baroli Rawatbhata Distt -Chittorgarh F.Y. 2016-17 (For two Quarters )

S.No.	CODE NO	Description of work	UNIT	Rates as per BSR	QTY	Freq.	Amounts in Rs
1	2	3	4	5	6	7	8
1	3	<b>Maintenance of Bay Equipments</b>					
		Providing work assistance as given below in maintenance work of following bay equipments such as Circuit Breaker, Current Transformers, Lighting Arrestors, Isolators, CVTs, PLCC equipments and corresponding Control and Relay Panels (All spares ,lubricating Control and special T & P shall be provided by RVPN.Cleaning material and general T & P shall be arranged by the contractor.) (a) Checking of tightness of clamps & connections. (b) Cleaning of all insulators (c) attending to oil leakage, if any (d) Cleaning of all Junction Boxes and secondary terminal boxes. (e) C.B. Through relays and verifying various logic and control circuits and annunciation circuits. (f) Measurement of C.B. operation timings. (g) Checking of Isolator operation and its alignments. (h) Checking of gas pressures like SF6 & N2 in circuit breakers/CTs,etc. (i) Measurement of I.R.Values of LAs,CTs and CVTs. (j) Lubrication of defind parts of all equipments at all required points. (k) Washing the equipments,in case oil stains are present,then washing is to be done with use of detergent solution. (l) Cleaning of C & R Panel from inside. (m)Tightening of clamps & connectors and spacers on overhead bus conductors and gantries ( at a maximum height of 25 meter using safety belts). Also ,tighting of clamps /connectors of all associated equipments connected to such overhead bus (n) Providing other related work assistance as may be required by incharge					
1.1	3.3	(2) 132 KV Bay ( 01No.Supervisor + 6 Nos.Workmen )	Each Bay	1892	4	One times	7568
1.2	3.4	33 KV & 11 KV Bay ( 01No.Supervisor + 5 Nos.Workmen )	Each Bay	1666	15	One times	24990
2	4	<b>Maintenance of Power Transformers</b>					
		Providing work assistance as given below in Maintenance of Power Transformers for the following types of Power Transformers. (All spares, lubricating material and only special T&P shall be provided by RVPN.Cleaning material and general T&P shall be arranged by the a) Cleaning of porcelain of bushings b) Checking of lightness of clamps & connectors. c) Cleaning of Bucholz & oil surge relays. d) Cleaning of glasses of all oil level indicators. e) Cleaning of marshalling box, cooler control cubicle, thermometer, etc., as provided.					

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*Adah.*



		<p>f) Attending to oil leakage from Tr. Body &amp; Bushings.</p> <p>g) Checking of oil level in oil filled bushings</p> <p>h) Checking of Drycol air drying system.</p> <p>i) Measurement of IR values</p> <p>j) Measurement of earth resistance.</p> <p>k) Testing of PRD.</p> <p>l) Checking of tripping circuits of Bucholz &amp; WDG, oil temperature controls and protection scheme.</p> <p>m) Checking of OLTC gear operations.</p> <p>n) Checking of auto circuits of cooling bank.</p> <p>o) Taking of oil samples for testing.</p> <p>p) Carrying out other special measurements as may be required.</p> <p>q) Providing of other related work assistance as may be required by work in charge.</p>					
2.1	4.3	132/33 KV & 132/11 KV ( all capacities)(5 Nos Workmen)	Each Trf	1220	2	One times	2440
2.2		33/11 KV & aux supply station transformer(3 Nos workmen)	Each Trf	774	2	One times	1548
	5	<b>Maintenance work of Bus Bars and associated equipments</b>					
		<p>Providing work assistance as given below in maintenance work of Bus Bars of various voltage levels.(All spares, lubricating material and only special T &amp; P shall be provided by RVPN.Cleaning material and general T &amp; P shall be arranged by the contractor.</p> <p>(a) Tightening of clamps &amp; connectors on overhead bus conductors and gantries ( at a maximum height of 25 metre using safety belts ).Also tightening of clamps / connectors of all bus side associated equipments</p> <p>( b ) Replacement of worn out clamps &amp; connectors of bus during work under item No. (a) .</p> <p>( c ) Cleaning of all insulators of suspension and tension string of bus bars and insulators of bus isolators, Bus CVT's /PT's.</p> <p>( d ) Checking of operation of Bus isolators and their alignment including motorized operation.</p> <p>( e ) Maintenance of operating mechanism &amp; switches,etc.</p> <p>( f ) Lubrication of all moving parts.</p> <p>( g ) Providing of other related work assistance as may be required by Work Incharge.</p>					
3.1	5.3	132 KV Bus Section ( 01No.Supervisor + 4 Nos.Workmen )	Each Section	1446	4	Once a year	5784
3.2	5.4	33 KV & 11 KV Bus Section ( 01No.Supervisor + 4 Nos.Workmen )	Each Section	1351	16	Once a year	21616


TOTAL A 63946

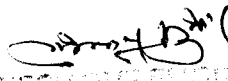
Add CLRC Rates 60% above BSR 38367.6


TOTAL B 102313.6

SAY 102314

(In Words One Lakhs Two Thousand Three Hundred Fourteen Only)

  
Junior Engineer  
132 KV GSS, RRVPNL,  
Baroli Rawatbhata

  
ASSISTANT ENGINEER  
132 KV GSS, RRVPNL,  
Baroli Rawatbhata

  
Assistant Engineer  
132 KV GSS, RRVPNL,  
Baroli Rawatbhata

**RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED**

( An ISO 9001:2008 certified Company)


**OFFICE OF THE ASSISTANT ENGINEER (132 KV GSS) BEGUN DISTT. CHITTORGARH****G' SCHEDULE FOR MAINTENANCE OF BAYS AND EQUIPMENTS  
AT 132 KV GSS BEGUN based on RVPN BSR for R&M work of EHV GSS & Line - 2011) FOR  
F.Y. 2016-17**

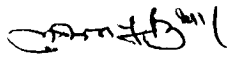
S.No.	CODE NO	Description of work	UNIT	Rates as per BSR	QTY	Freq.	Amounts in Rs
1	2	3	4	5	6	7	8
1	3	<b>Maintenance of Bay Equipments</b>					
		Providing work assistance as given below in maintenance work of following bay equipments such as Circuit Breaker, Current Transformers, Lighting Arrestors, Isolaters, CVTs, PLCC equipments and corresponding Control and Relay Panels (All spares, lubricating Control and special T & P shall be provided by RVPN. Cleaning material and general T & P shall be arranged by the contractor.) (a) Checking of tightness of clamps & connections. (b) Cleaning of all insulators (c) attending to oil leakage, if any (d) Cleaning of all Junction Boxes and secondary terminal boxes. (e) C.B. Through relays and verifying various iogic and control circuits and annunciation circuits (f) Measurement of C.B. operation timings. (g) Checking of Isolator operation and its aligments. (h) Checking of gas pressures like SF6 & N2 in circuit breakers/CTs, etc. (i) Measurement of I.R. Values of LAs, CTs and CVTs. (j) Lubrication of defind parts of all equipments at all required points. (k) Washing the equipments, in case oil stains are present, then washing is to be done with use of detergent solution (l) Cleaning of C & R Panel from inside. (m) Tightening of clamps & connectors and spacers on overhead bus conductors and gantries ( at a maximum height of 25 meter using safety belts). Also ,tighting of clamps /connectors of all associated equipments connected to such overhead bus. (n) Providing other related work assistance as may be required by incharge					
1.1	3.3	(2) 132 KV Bay ( 01No. Supervisor + 6 Nos. Workmen )	Each Bay	1892	4	One time	7568
1.2	3.4	33 KV Bay ( 01No. Supervisor + 5 Nos. Workmen )	Each Bay	1666	11	One time	18326
2	4	<b>Maintenance of Power Transformers</b>					
		Providing work assistance as given below in Maintenance of <b>Power Transformers</b> for the following types of Power Transformers. (All spares, lubricating material and only special T&P shall be provided by RVPN. Cleaning material and general T&P shall be arranged by the contractor.) a) Cleaning of porcelain of bushings b) Checking of lightness of clamps & connectors. c) Cleaning of Bucholz & oil surge relays. d) Cleaning of glasses of all oil level indicators. e) Cleaning of marshalling box, cooler control cubicle, thermometer, etc., as provided.					

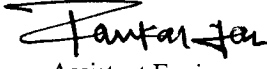
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		<p>f) Attending to oil leakage from Tr. Body &amp; Bushings.</p> <p>g) Checking of oil level in oil filled bushings</p> <p>h) Checking of Drycol air drying system.</p> <p>i) Measurement of IR values</p> <p>j) Masurement of earth resistance.</p> <p>k) Testing of PRD.</p> <p>l) Checking of tripping circuits of Bucholz &amp; WDG, oil temperature controls and protection scheme.</p> <p>m) Checking of OLTC gear operations.</p> <p>n) Checking of auto circuits of cooling bank.</p> <p>o) Taking of oil samples for testing.</p> <p>p) Carrying out other special measurements as may be required.</p> <p>q) Providing of other related work assistance as may be required by work in charge.</p>					
2.1	4.3	132/33 KV & 132/11 KV ( all capacities)(5 Nos Workmen)	Each	1220	2	One time	2440
2.2		33/11 KV & aux supply station transformer(3 Nos workmen)	Each	774	1	One time	774
3	5	<b>Maintenance work of Bus Bars and associated equipments</b>					
		<p>Providing work assistance as given below in maintenance work of Bus Bars of various voltage levels.(All spares, lubricating material and only speacial T &amp; P shall be provided by RVPN.Cleaning material and general T &amp; P shall be arranged by the contractor.</p> <p>(a) Tightening of clamps &amp; connectors on overhead bus conductors and gantries ( at a maximum height of 25 metre using safety belts ).Also tightening of clamps / connectors of all bus side associated equipments</p> <p>( b) Replacement of worn out clamps &amp; connectors of bus during work under item No. (a) .</p> <p>( c ) Cleaning of all insulators of suspension and tension string of bus bars and insulators of bus isolators, Bus CVT's /PT's.</p> <p>( d ) Cheaking of operation of Bus isolators and their alignment including motorized operation.</p> <p>( e ) Maintenance of operating mechanism &amp; switches,etc.</p> <p>( f ) Lubrication of all moving parts.</p> <p>( g ) Providing of other related work assistance as may be required by Work Incharge.</p>					
3.1	5.3	132 KV Bus Section ( 01No.Supervisor + 4 Nos.Workmen )	Each Section	1446	4	one Time	5784
3.2	5.4	33 KV Bus Section ( 01No.Supervisor + 4 Nos.Workmen )	Each Section	1351	4	one Time	5404
						TOTAL	40296
						<b>Add CLRC Rates 60% above BSR</b>	24177.6
						<b>GRAND TOTAL</b>	64473.6
						SAY	64474

(In Words Rs Sixty Four Thousand Four Hundred Seventy Four Only)

  
Junior Engineer(M)  
132 KV GSS, RRVPNL,  
BEGUN

  
EXECUTIVE ENGINEER  
(220 KV GSS), RRVPNL  
Chittorgarh (Raj.)

  
Assistant Engineer  
132 KV GSS, RRVPNL,  
BEGUN

**RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LTD**  
(An ISO 9001:2008 Certified Company)  
OFFICE OF THE ASSISTANT ENGINEER 132KV GSS RVPN, RASHMI

**G- SCHEDULE**

Sub :- Maintenance of Bay Equipment at 132KV GSS Rashmi for Year 2016-17 as per BSR-2011

S No	Code	Description	Unit	Qty	Frequency	Total Qty.	Rate	Amount
<b>Maintenance of Bay Equipments</b>								
1	3	Providing of work assistance as given below in Maintenance work of following bay equipments such as Circuit Breaker, Current Transformers, Lightning Arrestors, Isolators, CVTs, PLCC equipments and corresponding Control and Relay Panels. (All spares, lubricating material and only special T&P shall be provided by RVPN. Cleaning material and general T&P shall be arranged by the contractor.) a)						
		Checking of tightness of clamps & connectors.						
		b) Cleaning of all insulators. c) Attending to oil leakage, if any. d) Cleaning of all Junction Boxes and secondary terminal boxes. e) Checking of operation of CB through relays and verifying various logic and control circuits and annunciation circuits. f) Measurement of CB operation timings. g) Checking of Isolator operation and its alignments. h) Checking of gas pressures like SF6 & N2 in circuit breakers/CTs, etc. i) Measurement of IR values of LAs, CTs and CVTs. j) Lubrication of defined parts of all equipments all required points. k) Washing the equipments. In case oil stains are present, then washing is to be done with use of detergent solution. l) Cleaning of C&R panel from inside. m) Providing other related work assistance as may be required by Incharge.						
	3.3	132 KV bay (1 No. Supervisor + 6 Nos. Workmen)	Each Bay	4	Yearly	4	1892	7568
	3.4	33 or 11 KV bay (1 No. Supervisor + 5 Nos. Workmen)	Each Bay	7	Yearly	7	1666	11662
<b>Maintenance of Power Transformers</b>								
2	4	Providing of work assistance as given below in Maintenance of Power Transformers for the following types of Power Transformers. (All spares, lubricating material and only special T&P shall be provided by RVPN. Cleaning material and general T&P shall be arranged by the contractor.) a)						
		Cleaning of porcelain of bushings. b) Checking of tightness of clamps & connectors. c) Cleaning of Buchholz & oil surge relays. d) Cleaning of glasses of all oil level indicators. e) Cleaning of marshalling box, cooler control cubicle, thermometer, etc., as provided. f) Attending to oil leakage from Tr. Body & Bushings. g) Checking of oil level in oil filled bushings. h) Checking of Drycol air drying system. i) Measurement of I.R. values. j) Measurement of earth resistance. k) Testing of PRD l) Checking of tripping circuits of Buchholz & WDG, oil temperature controls and Protection scheme. m) Checking of OLTC gear operations. n) Checking of auto circuits of cooling bank. o) Taking of oil samples for testing. p) To carryout other special measurements as may be required. q) Providing of other related work assistance as may be required by Work Incharge.						

4.3	132/33 kV & 132/11kV (All capacities) (5 Nos. Workmen)	Each Bay	1	Yearly	1	1220	1220
4.4	33/11 kV & Aux. supply station Transformer (3 Nos. Workmen)	Each Bay	1	Yearly	1	774	774

### Maintenance of Bus Bars and Associated Equipments

3	5	Providing work assistance as given below in maintenance work of Bus bars of various voltage levels. (All spares, lubricating material and only special T&P shall be provided by RVPN. Cleaning material and general T&P shall be arranged by the contractor.) a) Tightening of clamps & connectors on overhead bus conductors and gantries (at a maximum height of 25 meter using safety belts). Also, tightening of clamp/ connectors of all bus side associated equipment's. b) Replacement of worn out clamps & connectors of bus during work under item No. (a). c) Cleaning of all insulators of suspension and tension strings of bus bars and insulators of bus isolators, Bus CVT's /PT's d) Checking of operation of Bus isolators and their alignment including motorized operation. e) Maintenance of operating mechanism & switches, etc. f) Lubrication of all moving parts. g) Providing of other related work assistance as may be required by Work Incharge.							
		5.3	132 KV Bus Section (1 No. Supervisor + 4 Nos. Workmen)	Each section	2	Yearly	2	1446	2892
		5.4	33 KV or 11 KV Bus section (1 No. Supervisor + 4 Nos. Workmen))	Each section	4	Yearly	4	1351	5404
TOTAL Rs.							29520		
60 % Above as per CLRC on BSR 2011 Rs							17712		
Grand Total Rs							<b>47232</b>		

(Rs. Forty Seven Thousand Two Hundred Thirty Two Rupees Only)

#### General Terms & Conditions.

- 1 All material, spares & only special T & P shall be provided by RVPN.
- 2 The Contractor shall provide and ensure the use of safety devices and shall take precautions as per norms.
- 3 The Contractor shall follow a safe method of working so that there is no damage to Nigam's material and also no injury to any of his workers. The Contractor shall be fully responsible for the safety of workers and RVPN will not be responsible for any type of accident, minor or fatal, to any person at work site.
- 4 RVPN will issue a written one day prior notice to the contractor for the proposed work to be taken up during shutdown of bay/ equipment in case of routine maintenance.
- 5 The Contractor should have capability of providing required labour under emergent circumstances at a short notice.
- 6 All the workmen provided by the contractor shall be got insured for accident by the contractor himself.
- 7 The permit to work shall not be issued to the supervisor of the contractor.
- 8 In accordance with the scope of works, this is a labour contract, hence no sales tax will be leviable. However any tax on such labour contracts, if levied, shall be to the contractor's account.

*Mint*  
कनिष्ठ अभियंता (सिन्टी)  
132 के.वी. जी.एस.एस. राशमी

*Puneet*  
ASSISTANT ENGINEER  
132KV GSS RVPN RASHMI

*S. S. B. S.*  
EXECUTIVE ENGINEER  
(220 KV GSS), RVPNL  
Chittorgarh (Raj.)