

PROJECT: 75MW VISAKH REFINERY MODERNIZATION PROJECT(VRMP),HPCL,VIZAG	ANX-09 TO PY55294
CUSTOMER: M/S HINDUSTAN PETROLEUM CORPORATION LIMITED, VIZAG,A.P	Rev No. 01
BHEL ENQUIRY NO.:T7H1R15344_NIT 38765	PRICE OFFER NO.:
BIDDER:	DATE:

PRICE SCHEDULE (SECTION-1) FOR 33kV GAS INSULATED SWITCHGEAR PACKAGE

SECTION - 1: Common Notes

- 1 This document details the price schedule for the enquiry & guidelines for submission of price/unpriced schedules. The notes as stated in this section are for strict compliance.
- 2 The format contains FOUR sections:
 - a Section-1: Common Notes (this section)
 - b Section-2: Price Schedule for Main Equipment for the 33kV Gas Insulated Switchgear & associated system
 - c Section-3: Unit Rates for Switchgear panel for additional/deletion to be used in detailed engineering.
 - d Section-4: Price Schedule for the Recommended Spares of 33kV Gas Insulated Switchgear Package
- 3 Along with Part-1 Offer, bidder shall submit unpriced bid of these formats i.e. duly signed & stamped copy of section-2, section-3 & section-4, Without Disclosing Rates/ Price But Mentioning Only 'Quoted' Against Each Item. For Sl. No. B.1 of section-2, % price break-up shall be indicated as mentioned at Note-5 of the section.
- 3 The unpriced copy submitted as such shall be considered as a token of concurrence that the price schedule is submitted in this format. If not submitted in this format or any field is left blank, the offer will be liable for rejection. No other format will be entertained. No cognizance will be taken of any changes made by vendor with respect to format issued by BHEL in the description of any item in price format.
- 4 All the blank fields shall be filled irrespective of applicability of any item for this Project. If any item is not in bidder's manufacturing range or not available in market (for bought-outs) then "Not Applicable/NA" shall be mentioned in the field. If the bidder mentions "Not Applicable/ NA" against any item and if need arises during order execution for such item, then the same shall be supplied free of cost. If any item is left unfilled, it shall be deemed that the price is included in any of the other quoted items / package and hence, price will be considered as zero for evaluation/additions. Also, for such items, unit rates for deletions will be at the discretion of BHEL.
- 5 Tender evaluation shall be as per the total landed cost to BHEL for the prices quoted in Section-2. Details of the same are specified in Evaluation criteria at Clause 32 of "Specific Conditions of the Contract". The price template of Section-2 is available online in EPS.
- 5 Hence, in Part-2 offer, prices to be considered for evaluation shall be filled online only.
- 5 In addition to this, prices for unit rates addition/deletion (format @ Section 3) & optional prices for recommended spares (format @ Section 4) shall be filled in the respective formats & attached along with Part-2 offer.
- 6 Unit rates (price format @ Section-3) would be used for effecting required corresponding changes in the percentage for spares (due to additions / deletions of main equipment during order execution).
- 7 Components/ Items/ Spares shall be identical to the main equipment.
- 8 Billing & Payments will be as per final approved BOM.
- 9 BHEL reserves the right to order part quantity or short close if any item/main equipment is not needed during execution.
- 10 Under Price Format Section-4, bidder to provide list of 2-Years Recommended O&M spares for 33kV Gas Insulated Switchgear package along with unit price of each item. BHEL reserves the right to order full/partial quantity of the Recommended O & M Spares along with the main equipment or separately or not at all. The bidder will keep their prices valid till execution of order or till 18 months from the date of P.O., whichever is later.

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75MW VISAKH REFINERY MODERNIZATION PROJECT(VRMP),HPCL,VIZAG

ANX-09 TO PY55294

CUSTOMER: M/S HINDUSTAN PETROLEUM CORPORATION LIMITED, VIZAG,A.P
BHEL ENQUIRY NO.:17H1R15344_NIT 38765

Rev No. 01
PRICE OFFER NO.:

BIDDER:

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PRICE SCHEDULE (SECTION-2)
FOR 33KV GAS INSULATED SWITCHGEAR PACKAGE-
(Unpriced schedule to be submitted only with Part-1 Offer. Prices to be filled online in Part-2)

SECTION - 2: Price Schedule for Main Equipment for the 33kV GIS												
S/N	MATERIAL CODE	ITEM	HSN/SAC Code	QTY.	Measuring Unit(MU)	UNIT PRICE Ex Works (INR) Refer Note-1	TOTAL PRICE Ex Works (INR)	P&F Charges (In Rs. <u>OR</u> Inclusive)	Freight Charges (In Rs. <u>OR</u> Inclusive)	Total Price (in Rs.)	GST (%)	REMARKS
A	SUPPLY SCOPE		(A)	(B)	(C)	(D)	(E) = (DxC)	(F)	(G)	(I)= (E)+(F)+(G)	(J)	
1	PY9755294015	33kV Gas Insulated Switchgear (GIS) as per specification		1	Set							Refer Note-3
2	PY9755294023	Substation Automation System (SAS) for equipment covered in the specification		1	Set							Refer Note-4
B	SERVICES SCOPE											
1a	PY9855294033	OEM Supervision for Erection/Installation of 33kV GIS at site including lodging & boarding at site (1 Set = 15 days)		1	Set							Refer Note-1,5
1b		OEM Supervision for Erection/Installation of Substation Automation system at site including lodging & boarding at site (1 Set = 15 days)		1	Set							
1c		Lumpsum price for travel by 33kV GIS vendor of OEM to and fro to site per visit		1	Set							
1d		Lumpsum price for travel by SAS vendor of OEM to and fro to site per visit		1	Set							
2	PY9855294041	Lumpsum price for Testing and Commissioning of 33kV Gas Insulated Switchgear at site inclusive of charges for travel, lodging,boarding etc.		1	Set							Refer Note-1
3	PY9855294050	Lumpsum price for Testing and Commissioning of Protection relays and Substation Automation system at site inclusive of charges for travel, lodging,boarding etc.		1	Set							Refer Note-1
4	PY9755294066	Lumpsum price for 33kV Cable Plug & socket / Kit Erection & Termination at 33kV GIS end inclusive of charges for travel, lodging,boarding etc 1Set=60 Plug & Socket Kit erection & termination)		1	Set							Refer Note-1 & 2
C	TRAINING											
1	PY9855294076	Training for Six OWNER's Engineers for a period of at least seven days for each at manufacturer's works for 33kV GIS Switchgear		1	Set							
2	PY9855294084	Training for Six OWNER's Engineers for a period of at least seven days for each at manufacturer's works for Numerical relays		1	Set							
3	PY9755294090	Training for Six OWNER's Engineers for a period of at least seven days for each at manufacturer's works for Data concentrators		1	Set							
4	PY9855294106	Training for TEN OWNER' s Engineers for a period of at least seven days for each at Site for 33kV GIS (1 Set = 7 days including 1 visit, lodging & boarding)		1	Set							
5	PY9855294114	Training for TEN OWNER' s Engineers for a period of at least seven days for each at Site for Numerical relays (1 Set = 7 days including 1 visit, lodging & boarding)		1	Set							
6	PY9855294122	Training for TEN OWNER' s Engineers for a period of at least seven days for each at Site for Data concentrators (1 Set = 7 days including 1 visit, lodging & boarding)		1	Set							
D	MANDATORY SPARES											
1	PY9755294139	Supply of Mandatory Spares as per specification.		1	Set							
Note 1	Actual Visits, Mandays needed at site will depend on site fronts availability and amount of work involved. For quoting purpose, the Visits, Mandays are as specified above. However, number of Mandays, Visits or both may change on either side based on actual site requirements. Payment shall be made for actual services provided. The charges quoted above at Item under Sl.No.8 shall be used for deriving per visit/ per manday charges. These will be used for making payment for services offered for actual no. of visits/mandays. Also, actual visits made and services provided need to be certified by BHEL's Site Office.											
Note 2	For any increase/decrease of cable termination quantities, proportionally unit price would be derived and used for addition/deletion quantities.											
Note 3	Along with Cl.3.1 of PY55294, it shall also includes O&M Manual, As-manufactured Drawings (both soft & hard) as per specification											
Note 4	Along with Cl.3.2 of PY55294, it shall also includes O&M Manual, As-manufactured Drawings (both soft & hard) as per specification.											
Note 5	As e-Procurement System is followed for this bid, for material code "PY9855294033", only one field shall appear to fill prices online. Hence for this field, Bidder shall quote the value obtained by adding Total Prices at Sl. No. 1a,1b,1c & 1d for Supervision for Erection/Installation of 33kV GIS/SAS System including the lumpsum price for travel by respective sub-vendor. In the unpriced quote to be submitted with Part-1, bidder shall indicate the % break-up of the lumpsum price (quoted in EPS for the material code) for 1a,1b,1c & 1d.											

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BIDDER:	DATE:

PRICE SCHEDULE (SECTION-3)
FOR 33kV GAS INSULATED SWITCHGEAR PACKAGE
(Unpriced schedule to be submitted with Part-1 & Price schedule with Part-2 Offer, to be filled & attached).

SECTION - 3: Unit Rates for the 33kV GIS for Addition/ Deletion of Components during detailed engineering

S/N	DESCRIPTION	RATING	EX-WORKS PRICE (IN INR)	
		BUS/FDR RATING		
1	Dummy Panel	2500A	Refer Note-1	
2	Outgoing feeder panel	630A		
3	Outgoing feeder panel	1250A		
4	Separate Bus PT panel without PTs	--		
5	Managed Ethernet switch for 24 Ports	--		
6	Managed Ethernet switch for 48 Ports	--		
7	HSR RED BOX	--		
8	Numerical relay for feeder/Transformer differential protection	--		
9	Numerical relay for Busbar differential protection	--		
10	Numerical relay for Metering & Protection	--		
11	Analog Input Card at data Concentrator	--		
12	Digital Input Card at Data concentrator	--		
13	Laptop with latest configuration with software for SAS	--		
14	Armoured FO cable with conduit for 100 Mtrs	--		
15	33kV Cable Plug & socket / Kit for 1Cx630 sq.mm	--		
16	33kV Cable Plug & socket / Kit for 1Cx500 sq.mm	--		
17	33kV Surge arrestor	--		
18	33kV CT for each ratio for protection class	--		
i)	1200/1A, 5P10,15VA	--		
ii)	600/1A, 5P10,15VA	--		
iii)	2000/1A, 5P10,15VA	--		
19	33kV CT for each ratio for PS class	--		
i)	1200/1A, Class PS,*V _k ≥ 25R _{ct} +60, I _m <30mA @V _k /2	--		
ii)	600/1A, Class PS,V _k ≥ *, I _m <30mA @V _k /2	--		
iii)	2000/1A, Class PS,V _k >*, I _m <30mA @V _k /2	--		

Signature & Seal of Bidder:

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PRICE SCHEDULE (SECTION-3)
FOR 33kV GAS INSULATED SWITCHGEAR PACKAGE
(Unpriced schedule to be submitted with Part-1 & Price schedule with Part-2 Offer, to be filled & attached).

SECTION - 3: Unit Rates for the 33kV GIS for Addition/ Deletion of Components during detailed engineering

S/N	DESCRIPTION	RATING	EX-WORKS PRICE (IN INR)	
		BUS/FDR RATING		
20	33kV CT for each ratio for Meterig	--		
i)	1200/1A, Class 0.2s	--		
ii)	600/1A, Class 0.2s	--		
iii)	2000/1A, Class 0.2s	--		
21	33kV PT (33kV/(110V/(√3)))/(110V/(√3)) 100VA Cl.1.0, 50VA 3P.	--		
22	Type test charges for each applicable for 33kV GIS	--		
23	Per Manday price for Erection supervision including lodging & boarding for 33kV GIS & SAS	--		
24	Per Manday price for Testing & commissioning of 33kV GIS including lodging & boarding	--		
25	Per Manday price for Testing & commissioning of Protection relays & SAS system including lodging & boarding	--		
26	Per manday price for 33kV Cable Plug & socket / Kit Erection & Termination including lodging & boarding	--		
27	Transportation price for per visit (to & fro)	--		
Notes				
1	EACH VERTICAL PANEL SHALL BE COMPLETE WITH PVC INSULATED ,TP, Cu. HBB, VBB, HORIZONTAL & VERTICAL EARTH BUS, JOINT SHROUDS, AUX. BUS-BARS, PANEL SPACE HEATER SYSTEM AS PER THE ORIGINALLY SUPPLIED EQUIPMENT.			

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RECOMMENDED SPARES (SECTION-4)
FOR 33kV GAS INSULATED SWITCHGEAR PACKAGE
 (Unpriced schedule to be submitted with Part-1 & Price schedule with Part-2 Offer, to be filled & attached).

SECTION - 4: Price Schedule of Optional 2-Years Recommended Spares for 33kV Gas Insulated Switchgear Package

S/N	DESCRIPTION	RATING	QUANTITY	UNIT PRICE (EX-WORKS IN INR)	TOTAL PRICE (EX-WORKS IN INR)	P&F Charges (In Rs. <u>OR</u> Inclusive)	Freight Charges (In Rs. <u>OR</u> Inclusive)	Total Price (in Rs.)	GST (%)

NOTE: Under Price Format Section-4, bidder to provide list of 2-Years Recommended O&M spares for 33kV Gas Insulated Switchgear package along with unit price of each item. BHEL reserves the right to order full/partial quantity of the Recommended O & M Spares along with the main equipment or separately or not at all. The bidder will keep their prices valid till execution of order or till 18 months from the date of P.O., whichever is later.