

	Price Bid format [for Main Supply + Mandatory Spares+Services]	Annexure -[C] of PY56394
	Fire Detection & Alarm System	Rev.00
	Project: 3 x 800MW Patratu	
BHEL ENQUIRY NO :		
Vendor Offer ref no:		
Ref. date:		
Ref. date:		
NOTES ::		
1	This document details the price schedule format for the enquiry. No other format will be entertained. Applicable taxes and duties shall be indicated separately in commercial offer.	
2	Duly signed & stamped un-priced price schedule format shall be submitted by vendor in the technical offer as a token of concurrence that price schedule would be submitted in this format. Any tampering / modification / additions, etc. are NOT allowed and not considered binding and is liable for rejection of the offer.	
3	Bidders shall be evaluated on overall L1 basis.	
4	For addition/reduction of quantity, unit rate quoted in the present offer shall be considered during order execution and shall be valid up to execution of the contract to the extent of + 10%, - 20% of overall order Value. These would include the cost up to engineering, installation of the item, wiring up in the panel and seamless integration with main system at works/site without any cost implications. All accessories as required for this purpose also shall be included in the Price Quoted	
5	Components/Items for addition/deletion, spares shall be identical to the main equipment.	
6	Billing will be as per BOM of actual supplied main equipment (including accessories) & spares.	
7	Unit Rates of the individual package items shall be derived by multiplying the "Unit Price Fixing Factor" with the Lumpsum Price quoted. Unit Rates of the Individual items thus arrived, shall be binding on the bidder, in case of any repeat order/Ammendment of order as per BHEL policies. Observations / Objections, if any, of the Bidder, to the "Unit Price Fixing Factor" shall be brought to the notice of BHEL, during Pre-Bid Stage. No Observations / Objections shall be entertained after the Techno-Commercial Bid is opened.	
8	Bidder to indicate "Quoted" in the column "Bidder's Confirmation" as a confirmation of their bid to the respective item.	
9	The Bid Evaluation is on Overall L1 Basis. Each and Every item of the Package shall be quoted by the bidder. Partial offers will not be considered for evaluation and the same are liable for rejection.	
10	Bidders will be required to quote Total BASIC Price only (For Main items and Mandatory spares)in Price Bid Form in the e-procurement portal, considering all items as per this Price Format. Basic Prices of various line items shall be calculated by BHEL by multiplying the quoted Total Basic Price with the Weightages mentioned in this Price Format against the respective line items.	

**Price Bid format [for Main Supply + Mandatory Spares+Services]**

Annexure -[C] of PY56394

Fire Detection & Alarm System

Rev.00

Project: 3 x 800MW Patratu

S. No	Material Code	Item Description	Quantity [I]	Unit	Unit Rate (Rs.) [II]	TOTAL PRICE (Rs.) [I*II]	Weightage (%) for Calculation of Line Item Prices by BHEL (Refer Note-7)	REMARKS
-------	---------------	------------------	--------------	------	-----------------------	--------------------------	--	---------

[A] MAIN SUPPLY

(a)	PY9756394005	Main Supply- Fire Detection & Alarm System Components	1	Set			92.91%	
-----	--------------	---	---	-----	--	--	--------	--

MAIN SUPPLY Total prices (Sub-total of [A]) (Rs.) ::

----- [1]

[B] MANDATORY SPARE

(b)	PY9756394030	Mandatory Spares- Fire Detection & Alarm System Components	1	Set			3.93%	
-----	--------------	--	---	-----	--	--	-------	--

MANDATORY SUPPLY Total prices (Sub-total of [B]) (Rs.)=

----- [2]

[C] SERVICES

(c)	PY9856394015	Supervision of Erection & Commissioning Services charges at site including lodging, boarding, local travel, insurance, etc. [Unit Rate = Per man day charges]	100	Days			2.89%	----- [3]
(d)	PY9856394023	Supervision of Erection & Commissioning visit charges [i.e. travel expenses like travel to & fro from vendors work to site, clearance charges like visa fee, etc.] [Unit rate = per visit travel expenses]	10	Visits			0.26%	----- [4]

Total prices for overall L1 evaluation ([1]+[2]+[3]+[4]) (Rs.) ::

		Price Bid format [for Main Supply]		Annexure -[C] of PY56394	
		Fire Detection & Alarm System		Rev.00	
		Project: 3 x 800MW Patratu			
BHEL Material code ::PY9756394005					
S. No	Type of instrument	Supply Quantity	Units	Weightage (%) for Calculation of Line Item Prices by BHEL Weightage of each item /unit price fixing factor (Refer Note-7) (%)	Bidders Confirmation
1	Fire Alarm Panel (Each panel shall have 12 Loops)	14	No.'s	7.748	
2	Repeater Panel	1	No.'s	0.202	
3	Multisensor Detectors with detector base and mounting back box (analogue addressable)	6000	No.'s	21.05	
4	Heat Detectors with detector base and mounting back box (analogue addressable)	165	No.'s	0.579	
5	Analogue addressable Probe Detectors (ROR type) with Flameproof Junction box (Min. 50 ft x 50 ft coverage for each detector along with counter flange and gasket)	15	No.'s	0.305	
6	Analogue addressable Beam Detectors	20	No.'s	1.209	
7	Analogue addressable IR Ember Detectors with local control unit, Air Purge Unit & accessories	44	No.'s	5.934	
8	Indoor Manual Call Points with mounting back box [Analog Addressable type]	350	No.'s	1.372	
9	Outdoor Manual call points with mounting back box (IP-65 min.) [Analog Addressable type]	235	No.'s	2.263	
10	Flameproof Manual call points with mounting back box [Analog Addressable type]	10	No.'s	0.162	
11	Indoor Hooter cum Strobe with mounting back box [Analog Addressable type]	355	No.'s	2.433	
12	Exit Sign (Self illuminating)	355	No.'s	0.43	
13	Response Indicators	1360	No.'s	0.267	
14	Siren (3 km) with Siren Control panel	1	No.'s	0.185	
15	Interface module for Siren Operation with IP-65 enclosure	1	No.'s	0.004	
16	Digital LHS Cable for Cable Galleries	50200	Meter	10.751	
17	Digital LHS Cable for Coal Conveyors	40000	Meter	14.663	
18	Digital LHS Controllers (2 km range)	1	Lot	6.971	
19	End of Line Resistance with Terminal Box	315	No.'s	0.18	
20	Cable Junction Box for 2P x 2.5 sqmm MICC Cable	50	No.'s	0.308	
21	LHS Cable Jointing Box	91	No.'s	0.07	
22	Module for LHS Cable (1 Input + 1 Output) with IP-65 enclosure	315	No.'s	1.409	

		Price Bid format [for Main Supply]		Annexure -[C] of PY56394	
		Fire Detection & Alarm System		Rev.00	
		Project: 3 x 800MW Patratu			
BHEL Material code ::PY9756394005					
23	Module for Deluge Valve (2 Input + 1 Output) with IP-65 enclosure	275	No.'s	1.23	
24	Module for Limit Switches (2 Input + 1 Output) with IP-65 enclosure	275	No.'s	1.23	
25	Module for Tripping (1 Input + 1 Output)	50	No.'s	0.224	
26	Module for Monitoring Pumps Status (1 Input + 1 Output) with IP-65 enclosure	12	No.'s	0.054	
27	Module for Interface with FAP of Stacker (1 Input + 1 Output) with IP-65 enclosure	12	No.'s	0.054	
28	Module for Interface with DCS (1 Input + 1 Output) with IP-65 enclosure	10	No.'s	0.045	
29	Module for Interface with IGES (1 Input + 1 Output) with IP-65 enclosure	12	No.'s	0.054	
30	24 V DC Power Supply Modules with Battery Back Up	10	No.'s	0.349	
31	Operator Workstation & A4 size color laser Printer along with Graphic software i.e., (GUI) Software	6	No.'s	2.81	
32	Laptop along with Fire Alarm Panel Commissioning Software License /Dongle	1	No.'s	0.123	
33	Furniture for Operator Workstation & Printer	6	Sets	0.225	
34	Mini-UPS for Operator Workstation & Printer (To be sized by bidder)	6	No.'s	0.354	
35	8 core Armoured single mode Optical Fiber Cable with 2" rodent proof HDPE conduits (for fire alarm panels and PC networking)	15,500	Meter	1.585	
36	Erection & Termination hardware for Optical Fibre cables	1	Lot	6.078	
37	All hardware & Software required (including OPC Licenses etc.) required for establishing the networking between all fire alarm panels, repeater panels, DCS, PCs, Printers etc shall be considered.	1	Lot		
38	Cable Tags for 1P x 1.5 Sqmm Cable	336	No.'s		
39	Cable Tags for 2C x 2.5 Sqmm Cable	160	No.'s		
40	Cable Saddle + Saddle Bars along with fixing screws and rawl plugs for 1P x 1.5 sqmm Cable	132000	No.'s		
41	Cable Saddle + Saddle Bars along with fixing screws and rawl plugs for 2C x 2.5 sqmm Cable	73400	No.'s		
42	Nylon Cable Tie for 1P x 1.5 sqmm Cable	78800	No.'s		
43	Nylon Cable Tie for 2C x 2.5 sqmm Cable	53400	No.'s		
44	Mounting Accessories & Erection Hardware for all above items	1	Lot		

		Price Bid format [for Mandatory Spares]	Annexure -[C] of PY56394	
		Fire Detection & Alarm System	Rev.00	
		Project: 3 x 800MW Patratu		
BHEL Material code PY9756394030				
S. No	Type of instrument	Supply Quantity	Weightage (%) for Calculation of Line Item Prices by BHEL Weightage of each item /unit price fixing factor (Refer Note-7) (%)	Bidders Confirmation
1	Multisensor detectors (Addressable) and Photo-electric type detector(Addressable)	5% of total supply	1.052	
2	Indicators assembly for smoke detectors provided in false ceiling (Response indicator)	5% of total supply	0.013	
3	LHS cable for coal conveyors	5% of total supply	0.537	
4	LHS cable for cable galleries	5% of total supply	0.733	
5	Manual pull stations or MCP	10% of total supply of each type	0.384	
6	Infrared detector unit with local control unit, purging unit, other accessories (for complete replacement)	5% of total supply	0.404	
7	Hooter cum Strobe with mounting back box (Indoor) [Addressable type]	1 No	0.007	
8	Interface unit/ modules for non addressable devices, auxillary / output relay modules, control modules, monitor modules, supervisory control modules and any other electronic modules	10% or 1 No. of each type and model whichever is more	0.393	
9	Spares for Fire alarm panel & repeater panel			
9.1	Fuses	100% of population	0.046	
9.2	Indicating Lamps	100% of population	0.014	
9.3	Push Buttons	10 Nos of each type and rating	0.003	
9.4	Power supply Modules	10% or 1 Nos of each type and rating whichever is	0.035	
9.5	Control modules, loop cards modules, isolator cards , auxiliary / output relay modules, control modules, supervisory control modules and any other electronic modules	10% or 1 No. of each type whichever is more.	0.094	
9.6	LCD display of each type unit of panel	1 No	0.05	
9.7	Catridge for Printers	2 Nos	0.005	
9.8	LED's of each type	100% of population	0.007	
9.9	Power Supervision relay	4 Nos of each type	0.019	
9.1	Fire screen/Alarm buzzer	1 No of each type	0.003	
10	Pre fabricated cables of each type	1 No. of each type, Size and model	0.015	
11	Pre fabricated cable connectors	1 No. of each type and model	0.003	
12	Other cables (including core cable, short term fire proof cable, fibre optic cables, etc.)	5% of each type, pair/ core and size of actual	0.079	
13	24V – DC POWER SUPPLY SYSTEM			
13.1	CTs, CVTs, VTs, chokes, AC/DC isolators, contactors, timers, relays	5% or 2 Nos. of each type and	0.035	
13.2	Fuses of each type and rating	200		
13.3	Fuse free Circuit breakers	5% or 5 Nos. of each type and rating whichever is		
13.4	Electronic modules of all types	One No. of each type		
13.5	Indication lamps	1		
13.6	Cooling Fans	1 No. of each type		
13.7	Indicators	1 No of each type and rating		
13.8	Relays of all types including overload relays	2 Nos. of each type and rating		
13.9	Batteries	5% or 2 nos. of each type & rating whichever is		