

Price Bid

"Design, Engineering, Supply, Installation, Testing and Commissioning of Total Capacity 50 kWp (20 kWp at ZO-Thiruvananthapuram & 30 KWp at Kollam Branch) Grid interactive Solar Photo Voltaic system" at Indian Bank Own Premises.





Sr No	Description	Qty	Unit	Su	pply	Installation		Total Amount S+I
	14.25年3月26年3月20日 14.25年3月21日 14.25年3月1日 14.25年3月1日 14.25年3月1日 14.25年3月14.25年3月1日 14.25年3月1日 14.25年3月11			Rate	Amount	Supply	Amount	(excluding tax)
	Location	:01- Z	O- Thiru	/ananthapu	ram – 20kWp.			
1	DESITC of 540 Wp Monocrystalline solar PV panels as per technical specifications given in the Tender (If higher wattage capacity panels are used, the power output of 20 kWp to be maintained).	37	No					
2	DESITC of 20 KW (or higher) solar inverter as per technical specifications and safety mat for operating personnel etc		No					
3	DESITC of Weather proof IP-65 array junction box with SPD, Fuse and as per technical specifications (minimum 02 nos)		No					
	DESITC of IP-42 protected cubicle type panel (ACDB)wall mounting fitted with the with all accessories (with AC surge arrestor, fuse etc)and suitable rating 63A, 25 KA 4 Pole MCCB (Current rating to be adjustable in the range from 80 % - 100%) to evacuate power (near to the invertor), with all necessary accessories and supply & installation of 1 no. 63A,25 KA 4P, MCCB (Current rating to be adjustable in the range from 80 % - 100%) (near to the mains of the Branch) with suitable enclosure to terminate the solar power supply to the mains of the Branch, as per technical specifications and safety mat shall be provided for operating personnel etc	1	set					



Sr No	Description	Qty	Unit	Su	pply	Insta	allation	Total Amount S+I
				Rate	Amount	Supply	Amount	(excluding tax)
5	Earthing of solar panel structures and AC DB							
5.1	Supply and fixing GI pipe earth station conforming fully to IS 3043 with latest amendments, complete with 3 m long 50mm dia GI pipe (3mm Thickness) with Funnel on Top with holes drilled for tapping connection. The rate includes making 300 mm diameter pit and after excavation pit to be filled with to surface with alternate layer of salt/charcoal mixture. Brick work masonry shall be constructed of size 450x450x300 mm with RCC cover. Note: Test report of resistance of the new earth pit to be submitted. (2 nos for DC, 2 nos for AC and 2nos for Lighting arrestor).		No					,
5.2	DESITC of 25 x 3 MM GI Strip to be clamped on wall, cable tray, buried in ground to interconnect the earth electrodes mentioned above (5.1) to the solar panel structures and power evacuation panel / combiner panel , lighting arrestor separately (The GI strip shall be painted with green paint as per electrical inspectorate norms)	400	Mt					
5.3	DESITC of 4 core 10 Sq mm Dia multi- stranded Cu wire, FRPVC insulated green colored cable to be drawn in 20 MM Dia PVC conduit, 1.5MM thick to be clamped on wall,	200	Mt					



Sr No	Description	Qty	Unit	Su	pply	Insta	Illation	Total Amount S+I
	A STATE OF THE STA			Rate	Amount	Supply	Amount	(excluding tax)
	cable tray, buried in ground to interconnect the earth electrode with inverter neutral point, AC DB to Invertor including terminations at both the ends etc.							
6	DESITC of AC & DC cabling between panels and inverter with heat resistant insulated copper wires drawn in UPVC Conduit properly fixed properly on pedestals on the floor for interconnection between solar modules , ARJ and invertor.		Lot					
7	DESITC of 4C x 35 Sqmm aluminum armored cable from AC Distribution Board to spare feeder of Main LT panel situated at the ground floor including terminations at both ends. The gland earthing with 14 SWG copper wire and connecting the same to earth grid to be included in the rate quoted by the contractor.		Mt					
8	Design, fabrication, supply and installation of concrete pedestals of minimum M20 grade [(1:11/2:3) and the same shall be plastered with 12mm thick cement sand mortar of ratio 1:4 of 300mm wide x 450mm high to be fixed on terrace floor for supporting solar panel structures. And the pedestals shall be painted with exterior emulsion paint	1	Lot					
9	D : 00 ! ! ! !	1	Lot					



Sr No	Description	Qty	Unit	Su	pply	Insta	llation	Total Amount S+I
	The World of the Control of the Cont			Rate	Amount	Supply	Amount	(excluding tax)
10	Supply & Installation of safety items like fire extinguishers, fire buckets and danger boards / Signages / Identification stickers on modules / inverters / Array junction box etc., / first aid kit etc., and safety mat at the location of inverters / combiner panel etc., Shock treatment chart both in Hindi & English, as required and which found necessary as per electrical inspectorate norms		Lot					
11	Supply and installation of 3 prong copper spike lightning terminal on 3 Mt high GI pipe with anchoring to be mounted on the parapet wall with proper clamping arrangement.		nos					
Ÿ	Lightning protection terminals as required to protect the entire building including the solar installation with GI strip / copper down conductors and earth pit as per IS standard each for Lightning terminal / mast							
12	Liaison with KSEB and Electrical Inspectorate for installation of bi directional net meter (to measure import and export of energy) (bi directional Energy meter will be supplied by KSEB).	1	Job					
13	Liasoning with Govt agencies (for project approval) and Preparation of as-built drawings, SLD etc., Liasoning with CEA / Government agencies (KSEB / MNRE/other govt agencies) after, arranging inspection and	1 Sales Carried	Job		,			



Description	Qty	Unit	Su	pply	Insta	Illation	Total Amount S+I
THE PROPERTY OF THE PROPERTY O			Rate	Amount	Supply	Amount	(excluding tax)
getting approval and arrange for , subsidy etc. after completion.							
Sub Total							
Grand total for Supply and Installation – (A)							
Operation & Maintenance (O&M) of Solar PV Sy	/stem (To be co	nsidered for Te	ender evaluation	nurnose)		
O&M During DL period	01		nordered for Te	The standard of the standard o	ригрозс)		
O&M for the 1st year after DLP	01	Year					-
	01	Year					
	01	Year					
•	01	Year					
•	01	Year					
O&M - SUB TOTAL(B)							
GRAND TOTAL (A+ B) – ZO Thiruvananthapuram (Exclusive of all taxes)	9						
	getting approval and arrange for , subsidy etc. after completion. Sub Total Grand total for Supply and Installation – (A) Operation & Maintenance (O&M) of Solar PV Syo O&M During DL period O&M for the 1st year after DLP O&M for the 2nd year after DLP O&M for the 3rd year after DLP O&M for the 4th year after DLP O&M for the 5th year after DLP O&M - SUB TOTAL(B) GRAND TOTAL (A+B) – ZO Thiruvananthapuram	getting approval and arrange for , subsidy etc. after completion. Sub Total Grand total for Supply and Installation – (A) Operation & Maintenance (O&M) of Solar PV System (O&M During DL period O&M for the 1st year after DLP O&M for the 2nd year after DLP O&M for the 3rd year after DLP O&M for the 4th year after DLP O&M for the 5th year after DLP O&M - SUB TOTAL(B) GRAND TOTAL (A+B) – ZO Thiruvananthapuram	getting approval and arrange for , subsidy etc. after completion. Sub Total Grand total for Supply and Installation – (A) Operation & Maintenance (O&M) of Solar PV System (To be co O&M During DL period O1 Year O&M for the 1st year after DLP O2M for the 2nd year after DLP O3M for the 3rd year after DLP O4M for the 4th year after DLP O5M for the 5th year after DLP O6M for the 5th year after DLP O8M - SUB TOTAL(B) GRAND TOTAL (A+B) – ZO Thiruvananthapuram	getting approval and arrange for , subsidy etc. after completion. Sub Total Grand total for Supply and Installation – (A) Operation & Maintenance (O&M) of Solar PV System (To be considered for Te O&M During DL period O&M for the 1st year after DLP O&M for the 2nd year after DLP O&M for the 3rd year after DLP O&M for the 4th year after DLP O&M for the 5th year after DLP O&M - SUB TOTAL(B) GRAND TOTAL (A+B) – ZO Thiruvananthapuram	getting approval and arrange for , subsidy etc. after completion. Sub Total Grand total for Supply and Installation – (A) Operation & Maintenance (O&M) of Solar PV System (To be considered for Tender evaluation O&M During DL period O&M for the 1st year after DLP O&M for the 2nd year after DLP O&M for the 3rd year after DLP O&M for the 4th year after DLP O&M for the 5th year after DLP O&M - SUB TOTAL(B) GRAND TOTAL (A+B) – ZO Thiruvananthapuram	getting approval and arrange for , subsidy etc. after completion. Sub Total Grand total for Supply and Installation – (A) Operation & Maintenance (O&M) of Solar PV System (To be considered for Tender evaluation purpose) O&M During DL period O&M for the 1st year after DLP O&M for the 2nd year after DLP O&M for the 3rd year after DLP O&M for the 4th year after DLP O&M for the 5th year after DLP O&M - SUB TOTAL(B) GRAND TOTAL (A+ B) – ZO Thiruvananthapuram	getting approval and arrange for , subsidy etc. after completion. Sub Total Grand total for Supply and Installation – (A) Operation & Maintenance (O&M) of Solar PV System (To be considered for Tender evaluation purpose) O&M During DL period O&M for the 1st year after DLP O&M for the 2nd year after DLP O&M for the 3rd year after DLP O&M for the 4th year after DLP O&M for the 5th year after DLP O&M for the 5th year after DLP O&M - SUB TOTAL(B) GRAND TOTAL (A+B) – ZO Thiruvananthapuram



Sr No	Description	Qty	Unit	Sup	ply	Insta	Illation	Total Amount S+I
The state of the same of				Rate	Amount	Supply	Amount	(excluding tax)

Location 02: Kollam Branch - 30kWp.

1	DESITC of 540 Wp Monocrystalline solar PV	56	No		T	T	
_	panels as per technical specifications		No				
1	(If higher wattage capacity panels are used, the			0		Α	
	power output of 30 kWp to be maintained).						
2	DESITC of 30 KW solar inverter (or higher) as	1	No				
	per technical specifications and safety mat for	-	110				
	operating personnel etc						
3	DESITC of Weather proof IP-65 array junction	3	No				
	box with SPD, Fuse and as per technical						-
	specifications (minimum 03 nos)				-0		
4	DESITC of IP-42 protected cubicle type panel	1	set				
	(ACDB) wall mounting with all accessories (with						
	AC surge arrestor ,fuse etc) and suitable rating						
	100A, 25 KA 4 Pole MCCB (Current rating to be						
	adjustable in the range from 80 % - 100%) to				9 8	A .	5
	evacuate power (near to the invertor), with all				1.0		
	necessary accessories and supply & installation						
	of 1 no. 100A 4P, MCCB (Current rating to be				-		
	adjustable in the range from 80 % - 100%) (near to the mains of the Branch) with suitable				į.		
	enclosure to terminate the solar power supply to						
	the mains of the Branch, as per technical						
	specifications and safety mat shall be provided					15	
	for operating personnel etc				17		
	The special grade and seed and						
					3761		





Sr No	Description	Qty	Unit	Sup	pply	Insta	allation	Total Amount S+I
1000年	是一个人,我们就是一个人的人,他们就是一个人的人,他们就是一个人的人。 第一个人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的		L'Haray	Rate	Amount	Supply	Amount	(excluding tax)
5	Earthing of solar panel structures and AC DB	T	1					
5.1	Supply and fixing GI pipe earth station conforming fully to IS 3043 with latest amendments, complete with 3 m long 80mm dia GI pipe (3mm Thickness) with Funnel on Top with holes drilled for tapping connection. The rate includes making 300 mm diameter pit and after excavation pit to be filled with to surface with alternate layer of salt/charcoal mixture. Brick work masonry shall be constructed of size 450x450x300 mm with RCC cover. Note: Test report of resistance of the new earth pit to be submitted. (2 nos for DC, 2 nos for AC and 2nos for Lighting arrestor).	6	No					
5.2	DESITC of 25 x 3 MM GI Strip to be clamped on wall, cable tray, buried in ground to interconnect the earth electrodes mentioned above (5.1) to the solar panel structures and power evacuation panel / combiner panel, lighting arrestor separately (The GI strip shall be painted with green paint as per electrical inspectorate norms)	9	Mt			1 1		
	DESITC of 4 core 10 sqmm Dia multi-stranded Cu wire, FRPVC insulated green colored cable to be drawn in 20 MM Dia PVC conduit, 1.5MM thick to be clamped on wall, cable tray, buried in ground to interconnect the earth electrode with inverter neutral point, AC DB to Invertor including terminations at both the ends.	200	Mt					



Sr No	Description	Qty	Unit	Sup	pply	Insta	llation	Total Amount S+I
	4件的企业,并不为价值的企业的企业。		精彩的	Rate	Amount	Supply	Amount	(excluding tax)
6	DESITC of AC & DC cabling between panels and inverter with heat resistant insulated copper wires drawn in UPVC Conduit properly fixed properly on pedestals on the floor for interconnection between solar modules, ARJ and invertor.		Lot				i.	
7	DESITC of 4C x 50 Sqmm aluminum armored cable from AC Distribution Panel to spare feeder of Main LT panel (or any electrical distribution panel identified by Bank) including terminations at both ends. The gland earthing with 14 SWG copper wire and connecting the same to earth grid to be included in the rate quoted by the contractor.		Mt					
8	Design, fabrication, supply and installation of concrete pedestals of minimum M20 grade [(1:11/2:3) and the same shall be plastered with 12mm thick cement sand mortar of ratio 1:4 of 300mm wide x 450mm high to be fixed on terrace floor for supporting solar panel structures. And the pedestals shall be painted with exterior emulsion paint	1	Lot		*		v	v
9	Design & Supply, Installation of GI structures for supporting the solar panels as per technical specifications	1	Lot				6	





Sr No	Description	Qty	Unit	Sup	pply	Insta	llation	Total Amount S+I
	1000年,1000年,1000年,1000年,1000年		Managara Control	Rate	Amount	Supply	Amount	(excluding tax)
10	Supply & Installation of safety items like fire extinguishers, fire buckets and danger boards / Signages / Identification stickers on modules / inverters / Array junction box etc., / first aid kit etc., and safety mat at the location of inverters / combiner panel etc., Shock treatment chart both in Hindi & English, as required and which found necessary as per electrical inspectorate norms		Lot					
11	Supply and installation of 3 prong copper spike lightning terminal on 3 Mt high GI pipe with anchoring to be mounted on the parapet wall with proper clamping arrangement. Lightning protection terminals as required to protect the entire building including the solar installation with GI strip / copper down conductors and earth pit as per IS standard each for Lightning terminal / mast		nos					
12	Liaison with KSEB and Electrical Inspectorate for installation of bi directional net meter (to measure import and export of energy) (bi directional Energy meter will be supplied by KSEB).		Job					
13	Liasoning with Govt agencies (for project approval) and Preparation of as-built drawings, SLD etc., Liasoning with CEA / Government agencies (KSEB / MNRE/ other govt agencies) after, arranging inspection and getting approval and arrange for , subsidy etc. after completion.	1	Job					



Sr No	Description	Qty	Unit	Su	pply	Insta	llation	Total Amount S+I
			以明讀學	Rate	Amount	Supply	Amount	(excluding tax)
	Sub Total							T
	Grand total for Supply and Installation – (A)					1		
14	Operation & Maintenance (O&M) of Solar PV Sys	stem (T	o be cons	sidered for Ter	nder evaluation	purpose)	2	_
	O&M During DL period							
14.a	700	01	Year					
	O&M for the 1st year after DLP							
14.b		01	Year					
	O&M for the 2nd year after DLP							
14.c		01	Year					
	O&M for the 3rd year after DLP					B.		
14.d		01	Year					
	O&M for the 4th year after DLP							
14.e		01	Year					
	O&M for the 5th year after DLP							
14.f		01	Year					
	O&M - SUB TOTAL(B)							
	GRAND TOTAL (A+ B) – Kollam Branch (Exclusive of all taxes)							





Sr No	Description	Qty	Unit	Sup	pply	Insta	llation	Total Amount S+I
是基準人類	从2000年,1970年,1970年			Rate	Amount	Supply	Amount	(excluding tax)

S.No	Name of Location	Grand Total
8		(Supply , Installation & O&M) (Exclusive of Taxes)
01	ZO- Thiruvananthapuram -20 kWp	
02	Kollam Branch – 30 kWp	
	Final Total (exclusive of taxes)	

