

President
Pravinsingh Pardeshi, I.A.S. (Retd.)

BNHS Invites

Expression of Interest (EOI)

For

Paint, Electrical and HVAC Services to be carried out in the premise of the Bombay Natural History Society, Fort, Mumbai as per the scope of work given under.

Bombay Natural History Society **(BNHS)** is looking for a Services for Painting of the internal and external walls, HVAC work on 1st and 2nd Floor and Electrical work on the 2nd Floor for its ongoing project on Restoration of Hornbill House Museum at Fort, Mumbai.

Scope of Work:

a. HVAC : 1st and 2nd Floor of the premise

(VRV/VRF System ODU - 48 HP, VRV/VRF BASED HI WALL, VRV/VRF BASED DUCTABLE, SITC of Centralized Controller, Gas charging, Refnet Joints/Branch Distributors for Indoor & Outdoor units, Control & Transmission Wiring),

b. Electrical : 2nd Floor of the premise

(light point wiring -primary, fan point, distribution boards 8 way tpn, db,light fixtures, power point circuit wiring, etc. as per the excel sheet)

c. Painting : from ground floor to 2nd floor of the premise and will include work for both Interior (757.87 sg.m) & Exterior (4131.8 sg.m) work.

Note: The detailed specifications are attached.

Qualification:

The service provider should be from the city of Mumbai or Mumbai sub urban area and should have carried out the work in the city of Mumbai of similar nature. He/she/firm must have the experience of implementing three projects of similar nature (submit customer letters) either independently or combined work in the immediate past three years, of similar or higher value (>50 lakhs).

Interested parties/firm/individuals may submit the Letter of Expression of Interest along with the work carried out in similar Heritage building with their quotation in the format attached as per the Unit of Measurement indicated against each and the time frame required to carry out the task independently to the Director, BNHS, Hornbill House, Dr Salim Ali Chowk, Shaheed Bhagat Singh Road, Fort, Mumbai-01, by 6th December, 2024 by 1700 Hrs at the following email id. Email id: director@bnhs.org.

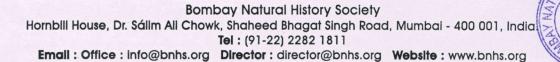
The Letter of EoI should necessarily include the Summary cost sheet and the individual cost sheet breakup to be considered for evaluation and taking the process further with the party.

Evaluation parameter:

The parties shall be evaluated on independent items basis and overall item basis, subject to fulfilling the above criteria.

Email id: director@bnhs.org

www.bnhs.org



Date :.2024

Project Name: BNHS, Mumbai

SUMMARY

Sr No	Description	Amount in Rs. Remark		Time required for completing the work in mandays - 01 day is 8 hrs.
1	- HVAC Work	titica shak bulcata koshi tali boy ni sh yism ora	For First Floor And Second Floor.	G G v G G v G G G G G G G G G G G G G G
2	Electrical Work	St. consider- thoulder- may years all brown	For Second Floor.	o de el
3	Painting Work	Title sales phas sales phasesan	1.Internal Painting for Ground floor to Second Floor. 2. External Painting for all three side of building including parapet wall, staircase head room, chajja ect.	into a series of the series of
Total An	nount (Excluding GST)	openille to	garrows: 14 cm. Orchards, hare stony hillerdos, open con se and scrub. N Baluchistan: W Hilmalayes. Seasonally	9 500







with blackish crown enities a ground even a broad buff superculum A lawny collar on upper back and sides of neck. Back rurous brown streaked with darker brown, lower rump pink. Wings largely pink with dark brown tip and a narrow white band at tip of econdaries.

	NAME OF PROJECT: BNHS 1st & 2nd FLOOR				Date: 06.12.20
S. No	HVAC VRF WORK Description of Items	T T T T T T T T T T T T T T T T T T T			
	VRV/VRF System	UNIT	QTY	RATE	AMOU
1	Outdoor Units				
	Supply Installation, Testing & Commissioning of modular type Variable Refrigerant				
	1 low variable Relingerant Volume air cooled Outdoor units suitable for and in				
	incating, having all nermetically sealed inverter type Scroll Compressor(s)	T INCOME	DEBUTE ST		
	compressors for above 14 HP modules, microprocessor based Controller to died		100000		
	condensing unit(s), with R 410 A Refrigerant, vibration isolators, with suitable foundation				
	etc. complete as required. The unit shall deliver the rated capacity at AHRI Conditions and work even at 50°C ambient temperature without tripping. The unit shall be suitable to work on 400V ±/2 10%, 3 Phase 50 L. A.C.				
	of 1000, 5 Flidst, JUHZ AC nower sunnly The unit shall be filled with the	sed only	Jane 11		
	of the renigerant and ready for use as required. The COP at A HDI conditions at all		owers and		
	ress than 5.1 and TEEK not less than 6.5.	at those	adunt au c		
1.1	ODU - 48 HP (18+18+12 HP)	Nos	1.00		
_		Nos.	1.00		
2	VRV/VRF BASED HI WALL		CROS I		
	Supply, installation, testing and commissioning of following minimum capacity VRV/VRF				
	and type indoor unit equipped with washable synthetic media are filter for goating	WE CONTROL	trans esqu		
	with low holse fail/dynamically balanced blower multispeed motor gold ageting with		TO THE PARTY OF TH		
	DX copper coil, electronic expansion valve, outer cabinet, cord less remote control, drain				
	pan, necessary accessories etc., suitable for operation on 230 V \pm 10%, 50 Hz, single phase AC supply, complete as required. The unit shall have automatic force	T since of	Service Control		
	shut down	nsO mad	sa unifical a		
	provision in case of fire on receiving signal from BMS System. The cooling capacity of	elism to l	B ognite		
	indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB		thereine a		
	temperature.				
.1	1.28 TR (424 CFM)	Nos.	10.00		
2	1.59 TR (530 CFM)	Nos.	4.00		-
3	2 TR (671 CFM)	Nos.	-		-
.1	VDV/VDE DACED, DVCTA DV D				-
	VRV/VRF BASED DUCTABLE				
	Supply, installation, testing and commissioning of VRV /VRF based ductable type,				
	high static indoor unit (IDU) having EER as per BEE standards and specifications with evaporator fan with motor, copper tube aluminium fin				
	evaporator coil, washable air filter, insulated drain tray, expansion device, cordless				
25.	remote control with necessary				
	controls and electrical terminal to receive power supply, etc. having anti-				
- 1	Suitable for coastal alea, with sulfable celling suspension arrangement, with an alastra-				
	control console and any additional refrigerant and oil charge as per requirement desired				
	installation connected with the system complete. including canvas connection.				
_					
	6.36 TR (2295 CFM) HSP	Nos.	1.00		
	8 TR (2825 CFM) HSP	Nos.	1.00		
	Supply, installation, testing and commissioning of VRF/VRV based ceiling suspended 2 Way cassette				
1	indor unit (IDU) having EER as per BEE standards and specifications,				
j	suitable as per site requirement with swing louvers and adjustable blades from sides. Indoor Units complete with in-built drainage arrangements, fan, refrigerant liquid and				
I	refrigerant piping, cordless remote control, and fresh air port etc. IDU shall have				
a	anticorrosive coating suitable for coastal area complete in all respects, to operate on				
1,	-phase, 250 v, 50Hz, AC input supply, consisting with any additional refrigerent				
10	and oil charge as per requirement				
d	during installation and connected to the system complete.				
2	2.6 TR CASSETTE UNIT	Nos.	-		
2	TR CASSETTE UNIT	Nos.	2.00		
6	NTC of Controllined Controll				1
13	SITC of Centralized Controller	Nos.	1.00		-
C	Commission of VRV systems including topping R410A gas per site				
re	equirements of VRV systems including topping R410A gas per site				
	Gas charging	la	00.00		
T		kg	90.00		-



	Supply, Installation, testing and commissioning including vaccumiazation and Nitrogen				
	testing of following nominal sizes of soft/hard drawn copper refrigerant piping for				
	VRV/VRF system, complete with fittings, with suitable adjustable ring type hanger				
7	supports, jointing/brazing including accessories, insulated with XPLE Class-O				
	tubular insulation/with Class-O closed cell elastometric nitrile rubber tubular				
	sleeves sections of specified thickness as given below for Suction and Liquid lines, all				
	accessories as per specifications etc. as required:				
7.1	41.3 mm O.D. (insulation: 19 mm) Tube thickness 1.62mm	Rm	18.00	CO.	
7.2	34.9 mm O.D. (insulation: 19 mm) Tube thickness 1.62mm	Rm	15.00		
7.3	28.6 mm O.D. (insulation: 19 mm) Tube thickness 1.2mm	Rm	8.00		
7.4	25.4 mm O.D. (insulation: 19 mm) Tube thickness 1.2mm	Rm			
7.5	22.2 mm O.D. (insulation: 19 mm) Tube thickness 1.2mm	Rm	16.00		
poipp.	19.1 mm O.D. (insulation: 19 mm) Tube thickness 1.2mm	Rm	22.00		
7.7	15.9 mm O.D. (insulation: 19 mm) Tube thickness 1.2mm	Rm	35.00		
7.8	12.7 mm O.D. (insulation: 19 mm) Tube thickness 1.2mm	Rm	4.00		
7.9	9.5 mm O.D. (insulation: 19 mm) Tube thickness 1.2mm	Rm	55.00		
7.10	6.4 mm O.D. (insulation: 19 mm) Tube thickness 1.2mm	Rm	26.00		
	(database and an analysis and	Kill	20.00		
8	Refnet Joints/Branch Distributors for Indoor & Outdoor units.		Constitution to the		
8.1	1 No Each for suction line, 1 no each for liquid line (= 1 set)	Nos.	19.00		
0.1	1 140 Each for suction fine, 1 no each for figure fine (- 1 set)	Nos.	19.00	24	
	Providing and fixing rigid PVC piping complete with fittings, supports as per		L.N. autilia	40-	
9		YHURSO	SIMME S		
,	specifications and duly insulated with 6 mm thick closed cell nitrile rubber insulation.	- dalpuly	manhora		
9.1	25 mm dia	2	22.00		
9.1		Rm	22.00	De la companya de la	
9.2	32 mm dia	Rm	65.00	tu.	
9.3	50 mm dia	Rm	8.00		
40	CONTRACTOR OF STATE O		PAGGET	til.	
10	Control & Transmission Wiring	ejmotrices	t Stauteoas	s.lv.	
	Providing & fixing control cum transmission wiring of 2 corex1 sqmm copper in		DEED ESTRUCT		
10.1	suitable conduits between indoor and outdoor	Rm	220.00		
	units. The lift some areas a discovered as a life was a supplement of the life and	dank siner	6 zoldano	98	
	HOWER SECRETARIES CHARTER CHOWN SHOWS ARE	diga bos	al /hare	310	
11	Outdoor Stand With Vibration Isolater V.I. Pad for VRV Outdoor	Nos.	3.00)(El	
	Units. In the Capacitation of the Capacitation	rentals	3.00	uel	
	DUCTING, GRILLS, DIFFUSER AND INSULATION				
	Supply, installation, balancing and commissioning of fabricated at site GSS sheet	(UUTU)	(487)	01	
12 5	metal rectangular/round ducting complete with neoprene rubber gaskets, elbows,		Sparrows		
12	colittar damage young hangare guarante etc.				
12	spitter dampers, vanes, nangers, supports etc. as per approved drawings and		metandent		
12	splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required.		meandern schead en		
12	specifications of following sheet thickness complete as required.	sa.m	56.00	10 09 19	
12.1	specifications of following sheet thickness complete as required. Thickness 0.63 mm (24G) sheet	sq.m	56.00	10 10 10	
12.1	specifications of following sheet thickness complete as required. Thickness 0.63 mm (24G) sheet Thickness 0.80 mm (22G) sheet	sq.m	56.00 40.00	10 10 10 80	
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12.1 12.2 12.3 12.4	specifications of following sheet thickness complete as required. Thickness 0.63 mm (24G) sheet Thickness 0.80 mm (22G) sheet Thickness 1.00 mm (20G) sheet Thickness 1.25 mm (18G) sheet Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets,	sq.m sq.m	40.00	For Day of State of S	
12.1 12.2 12.3 12.4	specifications of following sheet thickness complete as required. Thickness 0.63 mm (24G) sheet Thickness 0.80 mm (22G) sheet Thickness 1.00 mm (20G) sheet Thickness 1.25 mm (18G) sheet Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc., as per specifications.	sq.m sq.m sq.m	40.00	10 10 10 10 10 10 10 10 10 10 10 10 10 1	
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12.1 12.2 12.3 12.4	specifications of following sheet thickness complete as required. Thickness 0.63 mm (24G) sheet Thickness 0.80 mm (22G) sheet Thickness 1.00 mm (20G) sheet Thickness 1.25 mm (18G) sheet Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc., as per specifications. Supplying & fixing of powder coated extruded aluminium Supply Air Jet Nozzles 200mm dia 450 to 500 CFM Flow with aluminium	sq.m sq.m sq.m	40.00	71	
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12.1 12.2 12.3 12.4 13 14 15	specifications of following sheet thickness complete as required. Thickness 0.63 mm (24G) sheet Thickness 0.80 mm (22G) sheet Thickness 1.00 mm (20G) sheet Thickness 1.25 mm (18G) sheet Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc., as per specifications. Supplying & fixing of powder coated extruded aluminium Supply Air Jet Nozzles 200mm dia 450 to 500 CFM Flow with aluminium volume control dampers as per specifications. Supplying & fixing of powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers as per specifications. Supplying & fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control damperscomplete as required. Supplying, Fixing,testing and commissioning of fire dampers in supply air duct/main branch and return air path as and where required of required sizes i/c control wiring,the damper shall be motorized and spring return so as to close the damper	sq.m sq.m sq.m sq.m Nos.	16.00		
12.1 12.2 12.3 12.4 13 14 15	specifications of following sheet thickness complete as required. Thickness 0.63 mm (24G) sheet Thickness 0.80 mm (22G) sheet Thickness 1.00 mm (20G) sheet Thickness 1.25 mm (18G) sheet Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc., as per specifications. Supplying & fixing of powder coated extruded aluminium Supply Air Jet Nozzles 200mm dia 450 to 500 CFM Flow with aluminium volume control dampers as per specifications. Supplying & fixing of powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers as per specifications. Supplying & fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control damperscomplete as required. Supplying, Fixing,testing and commissioning of fire dampers in supply air duct/main branch and return air path as and where required of required sizes i/c control wiring,the damper shall be motorized and spring return so as to close the damper in the event of power failure automatically and open the same in case of power being	sq.m sq.m sq.m sq.m Nos.	16.00		
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12.1 12.2 12.3 12.4 13 14 15 15	specifications of following sheet thickness complete as required. Thickness 0.63 mm (24G) sheet Thickness 0.80 mm (22G) sheet Thickness 1.00 mm (20G) sheet Thickness 1.25 mm (18G) sheet Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc., as per specifications. Supplying & fixing of powder coated extruded aluminium Supply Air Jet Nozzles 200mm dia 450 to 500 CFM Flow with aluminium volume control dampers as per specifications. Supplying & fixing of powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers as per specifications. Supplying & fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers as per specifications. Supplying, Fixing, festing and commissioning of fire dampers in supply air duct/main branch and return air path as and where required of required sizes i/c control wiring, the damper shall be motorized and spring return so as to close the damper in the event of power failure automatically and open the same in case of power being restored. The spring return action shall be inbuilt mechanism and not externally mounted. The damper shall also be closed in the event of fire signal complete as required and as per	sq.m sq.m sq.m sq.m Nos.	16.00		4:
12.1 12.2 12.3 12.4 13 14 15 15	specifications of following sheet thickness complete as required. Thickness 0.63 mm (24G) sheet Thickness 0.80 mm (22G) sheet Thickness 1.00 mm (20G) sheet Thickness 1.25 mm (18G) sheet Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc., as per specifications. Supplying & fixing of powder coated extruded aluminium Supply Air Jet Nozzles 200mm dia 450 to 500 CFM Flow with aluminium volume control dampers as per specifications. Supplying & fixing of powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers as per specifications. Supplying & fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control damperscomplete as required. Supplying, Fixing,testing and commissioning of fire dampers in supply air duct/main branch and return air path as and where required of required sizes i/c control wiring,the damper shall be motorized and spring return so as to close the damper in the event of power failure automatically and open the same in case of power being restored. The spring return action shall be inbuilt mechanism and not externally mounted.	sq.m sq.m sq.m sq.m Nos.	16.00		4:

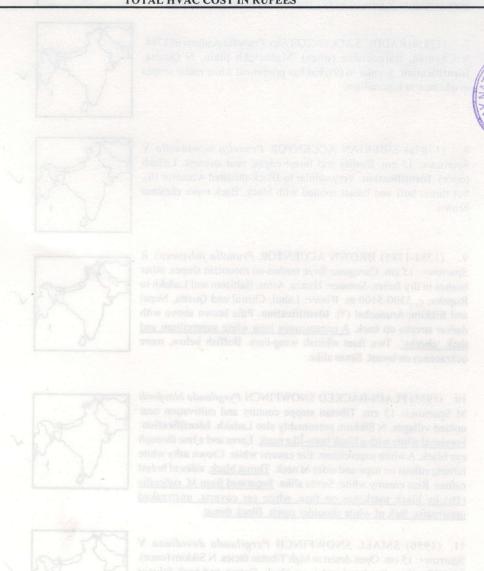


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HIS

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17	Supply and fixing of acoustic lining of supply air duct and plenum with 25 mm thick resin bonded glass wool having density of 32 kg/m³, with 25 mm X 25 mm GI section of 1.25 mm thick, at 600 mm centre to centre covered with Reinforced Plastic tissue paper and 0.5 mm thick perforated aluminum sheet fixed to inside surface of ducts with cadmium plated nuts, bolts, stick pins, CPRX compound etc. complete as required and as per specifications.	sq.m	-		
18	Supplying and fixing of following thickness duly laminated aluminum foil of mat finish closed cell Nitrile rubber (Class "O") insulation on existing duct after applying suitable adhesive for Nitrile rubber. The joints shall be sealed with 50 mm wide and 3 mm thick self adhesive nitrile rubber tape insulation complete as per specifications and as required.	id (185) konsejin konseli	630() Eveninge es stant	.0 x(b)	
18.1	19mm	sq.m	65.00		-
18.2	25 mm	sq.m			



4.31

Date: 06.12.2024

	PROJECT NAME : BNHS ELECTRICAL WORK - For Second Floor Only				Date . 00.12.202
S.No.	DESCRIPTION DESCRIPTION	UNIT	QTY	Rate	TOTAL AMOUN
	LIGHT POINT WIRING -PRIMARY				
	WIRE POLYCAB SWITCH GM PVC PIPE PRECITION	T			
	Wiring for the following light point with 1.5 sq.mmpvc insulated copper conductor				
	FRLS wire of 1100volts grade in concealed/exposed heavy duty FRLS PVC conduit				
1.0	25mm dia in false ceiling/walls/ceiling as called for including providing 5amp flush				
	type switch of approved quality colour make and design and approved white	Nos	78.0		0.0
	polycarbonate modular cover plate,5 sided GI box with earth stud and earthing with		70.0		0.0
	1.5 sq.mm FRLS PVC insulated copper conductor earth wire (circuit wiring costing				
	from DB to switch and switch to next switch shall br added in the same item)				
	TOTAL DOUGH.				
	FAN POINT	14 2:3120			
	Wiring for the following Fan points with 1.5 sq. mm PVC insulated	HOUSE			
	copper conductor FRLS wires of 650/1100 Volts grade in				
20	concealed/exposed RIGID PVC Medium Duty Conduits ISI Marked				
2.0	ncluding providing Hook and Ceiling rose for Fan, 6 amp Modular	NO	34.0		0.0
	type switches, 5 Step Fan Speed Controller, approved White				
	Polycarbonate modular cover plate for switch boxes and earthing	STATE OF STATE OF			
	with 1.5 sq. mm PVC insulated copper conductor earth wire.	of suits			
	Providing & Fiving 6 amp switch and analysis 0. 5 in its 0.	n Econolis			
	Providing & Fixing 6 amp switch and socket On Existing Swith board approved White Polycarbonate modular cover complete as read.				
3.0	modular cover complete as requ.	NO	25.0		0
	Estant of reliais	- 100	23.0		0
4.0	Wiring for 15/16Amp power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit including providing 16 amp switch and 16 pin socket, MS box for housing switches sockets, approved White Polycarbonate modular cover and	E O	10.0		
	earthing with 2.5 sq. mm PVC insulated copper conductor wire.	NO			0
	DISTRIBUTION BOARDS				
	8 WAY TPN DB	ayor			
	INCOMER: - 63Amp FP MCB 10KA	1000			
5.0	BUS BAR:- 50Amp 3-Wire, 50Hz Cu/Al conductor with	Entra			
3.0	PVC sleeves indicated with 3 colors	NO	1		0
	PHASE ISOLATION - 3Nos 25A DP ELCB 300mA	19 1			
	outgoing-	0.7 110			
	25Amp SP MCB 10KA - 24Nos.	nursiti			
D.U.	LIGHT FIXTURES	(112207)			
-	18 W LED TUBELIGHT PHILIPS MAKE	NO	78		0
	POWER POINT CIRCUIT WIRING				
7.0	WIRING FOR THE FOLLOWING POWER POINT CIRCUIT WITH 2.5 SQ MM PVC COPPER				
	CONDUCTOR FRLS WIRE OF 1100 VOLTS WIRING FOR PVC CONDUIT PRECITION for	RM :	300		0
	WIRE POLYCAB				
-	ARMOURED CABLE			and the second	
8.0	SUPPLY OF 3 CORE ARMOURED PVC/XLPE INSULATED, PVC SHEATHED COPPER				
	CONDUCTOR CABLE OF 1.1 KB GRADE WITH ISI MARK	RM 2	200		0
	3 CORE 4 SQ MM				
	TOTAL				



Date: 06.12.2024

PROJECT NAME: BNHS

Quotation For: External and Internal Painting

S.No.	DESCRIPTION	UNIT	QTY	Rate	Amount
1	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces. (including the primer coat.) etc. complete.		4131.475	or half	
	Providing & applying exterior paint to the entire external surface of building, parapet wall & terrace lift m/c and staircase room, such as 100% Premium elastomeric Acrylic Paint like Asian, ICI, Godavari, etc., or Equivalent in Two + Two coat system or equivalent make with 10 years warranty by conctractor and manufacturers, erecting scaffolding & scrapping, cleaning the surface, washing and filling the crevices with approved sealant approved etc. complete. Total Amount	Sq.m	757.8696	repries cases case	





(2025) DARK, RUMPED ROSEFINCH Corpoducus edwards it a Sparrows. 17 cm. Rhododron and silver fir forest. E Himalayas, 1000-3000 m. Identification: Mule crown and eye band duil crimson-brown. Foreboad and supervillium pink. Back and rump brown washed with crimson. Two pinksish wing-bars. Centre of beily pink. The absence with crimson. Two pinksish wing-bars. Centre of beily pink. The absence have the control of the control o