

COCHIN PORT AUTHORITY

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Tender No: T1/T-2075/2025-C

Name of Work : RENOVATION OF TYPE-III QUARTERS AT RNAS AREA

SCHEDULE - "II"- SCHEDULE OF QUANTITIES OF WORK TO BE DONE ON CONTRACT

Name and Address of the Vendor:							
Sl. No.	Sub- heads and items of work	Unit	Approximate Quantity	Departmental Rate/ unit Price (Rs)	Departmental Rate in Words	Departmental Amount in Rs.	Departmental Amount in Words
PART.A.CIVIL WORKS							
1	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.For thickness of tiles 10 mm to 25 mm, including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in Charge	m2	490	81.709614	Rupees Eighty One and Seventy Paise Only	40037.71	Rupees Forty Thousand Thirty Seven and Seventy One Paise Only
2	Dismantling W.C. Pan/ Wash basin of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in Charge	Each	32.00	149.28	Rupees One Hundred Forty Nine and Twenty Eight Paise Only	4777.01	Rupees Four Thousand Seven Hundred Seventy Seven Only
3	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	m2	550.00	60.84	Rupees Sixty and Eighty Three Paise Only	33460.31	Rupees Thirty Three Thousand Four Hundred Sixty and Thirty Paise Only
4	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	m3	9.00	2709.83	Rupees Two Thousand Seven Hundred Nine and Eighty Three Paise Only	24388.48	Rupees Twenty Four Thousand Three Hundred Eighty Eight and Forty Eight Paise Only
5	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :Of area 3 sq. metres and below.	Each	42.00	408.77	Rupees Four Hundred Eight and Seventy Seven Paise Only	17168.37	Rupees Seventeen Thousand One Hundred Sixty Eight and Thirty Six Paise Only
6	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in - charge.	m3	1.00	3953.29	Rupees Three Thousand Nine Hundred Fifty Three and Twenty Eight Paise Only	3953.29	Rupees Three Thousand Nine Hundred Fifty Three and Twenty Eight Paise Only
7	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge:-In cement mortar	m3	1.00	2293.44	Rupees Two Thousand Two Hundred Ninety Three and Forty Three Paise Only	2293.44	Rupees Two Thousand Two Hundred Ninety Three and Forty Three Paise Only
8	Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-In-Charge	m2	210.00	746.91	Rupees Seven Hundred Forty Six and Ninety Paise Only	156850.73	Rupees One Lakh Fifty Six Thousand Eight Hundred Fifty and Seventy Three Paise Only
9	Providing & filling with 6mm metal mixed with quarry dust inside basement including consolidation as directed by the Engineer-in-charge.	m3	10.00	3099.70	Rupees Three Thousand Ninety Nine and Seventy Paise Only	30997.00	Rupees Thirty Thousand Nine Hundred Ninety Seven Only
10	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness)including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses,string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills,fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:1:1½:3 (1 cement : 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	m3	33.00	11530.13	Rupees Eleven Thousand Five Hundred Thirty and Twelve Paise Only	380494.23	Rupees Three Lakh Eighty Thousand Four Hundred Ninety Four and Twenty Three Paise Only
11	Plastering with cement mortar 1:4 (1 cement: 4 fine sand) 20 mm thick including finishing, curing etc. complete. Incl material, labour, scaffolding etc.	m2	480.00	524.71	Rupees Five Hundred Twenty Four and Seventy One Paise Only	251861.54	Rupees Two Lakh Fifty One Thousand Eight Hundred Sixty One and Fifty Three Paise Only

12	12 mm cement plaster finished with a floating coat of neat cement of mix :1:4 (1 cement: 4 fine sand)	m2	480.00	473.73	Rupees Four Hundred Seventy Three and Seventy Two Paise Only	227388.73	Rupees Two Lakh Twenty Seven Thousand Three Hundred Eighty Eight and Seventy Two Paise Only
13	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry, and inclusive of all material, labour, sundries etc.	m2	480.00	686.91	Rupees Six Hundred Eighty Six and Ninety Paise Only	329714.99	Rupees Three Lakh Twenty Nine Thousand Seven Hundred Fourteen and Ninety Nine Paise Only
14	Providing Seven Layer Water Proofing Coating with 15 GSM Fiber Glass Mesh over concrete roof after making the surface free from dirt, dust, algae, fungi & other contaminants by using suitable tools & equipment. 1. First Coating: Apply a single coat of modified styrene butadiene emulsion (Bonding Agent) 2. Second Coating: Fix fiber glass mesh above the first coating in wet condition 3. Third Coating: Apply one coat of single component acrylic based polymer for cement based waterproof composite coating membrane 4. Fourth Coating: Apply a single coat of primer for enhanced bonding- 5. Fifth & Sixth Coating: Apply two coats of High build fibre reinforced Acrylic based modified polyurethane-Elastomeric Solar Reflective cum water proofing coating by roller or brush on the primed surface 6. Seventh Coating: single coat of acrylic slip resistance surface coating, sealer and hardener (Intransparent Water repellent coating) The rate for waterproofing work shall include chemicals, manpower, tools, and supervision. Re-plastering, if any, required will be paid extra.	m2	480.00	700.00	Rupees Seven Hundred Only	336000.00	Rupees Three Lakh Thirty Six Thousand Only
15	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). Size of Tile 600x600 mm . incl of all material,labour, sundries etc	m2	420.00	2108.31	Rupees Two Thousand One Hundred Eight and Thirty Paise Only	885489.54	Rupees Eight Lakh Eighty Five Thousand Four Hundred Eighty Nine and Fifty Three Paise Only
16	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm. incl of all material,labour, sundries etc	m2	810.00	1729.32	Rupees One Thousand Seven Hundred Twenty Nine and Thirty One Paise Only	1400746.02	Rupees Fourteen Lakh Seven Hundred Forty Six and Two Paise Only
17	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge. Size of Tile 600x600 mm. incl of all material,labour, sundries etc	m2	1230.00	344.04	Rupees Three Hundred Forty Four and Three Paise Only	423166.19	Rupees Four Lakh Twenty Three Thousand One Hundred Sixty Six and Eighteen Paise Only
18	Providing and fixing white vitreous china pedestal type water closet (European type W.C.pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe,with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required, W.C. pan with ISI marked white solid plastic seat and lid (wherever required of CERA or approved equivalent)	Each	16	7253.18	Rupees Seven Thousand Two Hundred Fifty Three and Seventeen Paise Only	116050.81	Rupees One Lakh Sixteen Thousand Fifty and Eighty Paise Only
19	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931:15 mm nominal bore	Nos	48	639.32	Rupees Six Hundred Thirty Nine and Thirty One Paise Only	30687.19	Rupees Thirty Thousand Six Hundred Eighty Seven and Nineteen Paise Only
20	Supplying & Fixing Toilet fittings Health faucet - Brand: CERA, Model F8030105AB incl of all accessories, fitting charges,sundries etc	Each	16.00	1162.28	Rupees One Thousand One Hundred Sixty Two and Twenty Eight Paise Only	18596.48	Rupees Eighteen Thousand Five Hundred Ninety Six and Forty Eight Paise Only
21	Supply and Fixing Over Head Shower Brand : CERA Model: F7010111SS, 150x150mm rate incl of all accessories, fitting charges,sundries etc	Each	16.00	2419.05	Rupees Two Thousand Four Hundred Nineteen and Five Paise Only	38704.80	Rupees Thirty Eight Thousand Seven Hundred Four and Eighty Paise Only
22	Supply and Fixing Over Head Shower Arm Brand: CERA Model: F7040106 rate incl of all accessories, fitting charges,sundries etc	Each	16.00	1733.01	Rupees One Thousand Seven Hundred Thirty Three and One Paise Only	27728.16	Rupees Twenty Seven Thousand Seven Hundred Twenty Eight and Sixteen Paise Only
23	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P.brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	Each	16.00	2091.94	Rupees Two Thousand Ninety One and Ninety Four Paise Only	33471.11	Rupees Thirty Three Thousand Four Hundred Seventy One and Ten Paise Only

24	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour. Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms.rate incl of all accessories,carriages& fitting charges etc	Each	16.00	136.26	Rupees One Hundred Thirty Six and Twenty Five Paise Only	2180.11	Rupees Two Thousand One Hundred Eighty and Eleven Paise Only
25	Providing and fixing 15mm dia. Or nearest available size Chromium plated brass tap (Heavy Type) of weight not less than 400g.	Each	64.00	375.50	Rupees Three Hundred Seventy Five and Fifty Paise Only	24032.00	Rupees Twenty Four Thousand Thirty Two Only
26	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.rate incl of all accessories, carriages & fitting charges etc	Each	16.00	258.21	Rupees Two Hundred Fifty Eight and Twenty Paise Only	4131.34	Rupees Four Thousand One Hundred Thirty One and Thirty Four Paise Only
27	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.rate incl of all accessories, carriages & fitting charges etc	Nos	16.00	124.07	Rupees One Hundred Twenty Four and Six Paise Only	1985.08	Rupees One Thousand Nine Hundred Eighty Five and Seven Paise Only
28	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end). 32 mm nominal bore..rate incl of all accessories, carriages & fitting charges etc	Nos	40.00	767.67	Rupees Seven Hundred Sixty Seven and Sixty Six Paise Only	30706.78	Rupees Thirty Thousand Seven Hundred Six and Seventy Eight Paise Only
29	Supplying, Laying and jointing PVC pipe (class5) with ISI mark including all specials for water supply line. b. 25 mm dia ,rate incl of all accessories, carriages & fitting charges etc	m	750.00	79.00	Rupees Seventy Nine Only	59250.00	Rupees Fifty Nine Thousand Two Hundred Fifty Only
30	Supplying, Laying and jointing PVC pipe (class5) with ISI mark including all specials for water supply line. c. 32 mm dia , rate incl of all accessories, carriages & fitting charges etc	m	260.00	97.40	Rupees Ninety Seven and Forty Paise Only	25324.00	Rupees Twenty Five Thousand Three Hundred Twenty Four Only
31	Supplying, Laying and jointing PVC pipe (class5) with ISI mark including all specials for water supply line. d. 40 mm dia , rate incl of all accessories, carriages & fitting charges etc	m	160.00	122.10	Rupees One Hundred Twenty Two and Ten Paise Only	19536.00	Rupees Nineteen Thousand Five Hundred Thirty Six Only
32	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.Concealed work, including cutting chases and making good the walls etc . 25 mm nominal dia Pipes.	m	80.00	698.26	Rupees Six Hundred Ninety Eight and Twenty Six Paise Only	55860.88	Rupees Fifty Five Thousand Eight Hundred Sixty and Eighty Seven Paise Only
33	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.Concealed work, including cutting chases and making good the walls etc . 32 mm nominal dia Pipes.	m	80.00	823.00	Rupees Eight Hundred Twenty Two and Ninety Nine Paise Only	65839.69	Rupees Sixty Five Thousand Eight Hundred Thirty Nine and Sixty Nine Paise Only
34	Supplying and laying/fixing 63mm dia. PVC pipe (class2) buried /above ground for drainage disposal.rate incl of all accessories, carriages & fitting charges etc	m	160.00	172.50	Rupees One Hundred Seventy Two and Fifty Paise Only	27600.00	Rupees Twenty Seven Thousand Six Hundred Only
35	Supplying and laying/fixing 110mm dia. PVC pipe (class2) buried/ above ground for drainage disposal. rate incl of all accessories, carriages & fitting charges etc	m	336.00	338.80	Rupees Three Hundred Thirty Eight and Eighty Paise Only	113836.80	Rupees One Lakh Thirteen Thousand Eight Hundred Thirty Six and Eighty Paise Only
36	Supplying and laying/fixing 160mm dia. PVC pipe (class2) buried/ above ground for drainage disposal. rate incl of all accessories, carriages & fitting charges etc	m	32.00	612.10	Rupees Six Hundred Twelve and Ten Paise Only	19587.20	Rupees Nineteen Thousand Five Hundred Eighty Seven and Twenty Paise Only
37	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. Second class teak wood , 35 mm thick shutters . rate incl of material, labour , sundries etc	m2	20.00	4577.46	Rupees Four Thousand Five Hundred Seventy Seven and Forty Six Paise Only	91549.28	Rupees Ninety One Thousand Five Hundred Forty Nine and Twenty Seven Paise Only
38	Renewing glass panes and refixing existing wooden fillets: Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm) rate incl of all accessories, carriages etc	m2	20.00	1366.24	Rupees One Thousand Three Hundred Sixty Six and Twenty Four Paise Only	27324.85	Rupees Twenty Seven Thousand Three Hundred Twenty Four and Eighty Five Paise Only
39	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame. rate incl of material, labour , sundries etc	m	155.00	635.59	Rupees Six Hundred Thirty Five and Fifty Eight Paise Only	98516.02	Rupees Ninety Eight Thousand Five Hundred Sixteen and Two Paise Only

40	Providing and fixing to existing door frames. 30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.rate incl of material, labour , sundries etc	m2	50.00	4141.98	Rupees Four Thousand One Hundred Forty One and Ninety Seven Paise Only	207098.81	Rupees Two Lakh Seven Thousand Ninety Eight and Eighty Paise Only
41	Providing and fixing mosquito shuttering to windows, ventilators/ opening/ grills using powder coated aluminium section no.9948 of shell thicknessof 1.5mm , SS net grade 316, including all labour and materials, SS handles 3"/2", SS hinges 3"/2", Magnet,tower bolt, spring, bush and beedings etc. complete as per the directions of the Engineer in charge.rate incl of all accessories, carriages etc	m2	50.00	1680.00	Rupees One Thousand Six Hundred Eighty Only	84000.00	Rupees Eighty Four Thousand Only
42	Providing and fixing mosquito shuttering to doors using powder coated aluminium section no.9948 of shell thickness 1.5 mm, SS net grade 316, including all labour and materials,SS handles 3"/2", SS hinges 3"/2", Magnet,tower bolt, spring, bush and beedings etc. complete as per the directions of the Engineer in charge.rate incl of all accessories, carriages etc	m2	40.00	2100.00	Rupees Two Thousand One Hundred Only	84000.00	Rupees Eighty Four Thousand Only
43	Supplying and fixing HDPE water tanks of SYNTEX or equivalent approved brands.rate incl of all accessories, carriages etc	L	8000.00	8.00	Rupees Eight Only	64000.00	Rupees Sixty Four Thousand Only
44	Providing and fixing up to floor five level precast cement concrete solid block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete :1:1½:3 (1 Cement: 1½ coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	m3	4.00	19914.49	Rupees Nineteen Thousand Nine Hundred Fourteen and Forty Nine Paise Only	79657.97	Rupees Seventy Nine Thousand Six Hundred Fifty Seven and Ninety Six Paise Only
45	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	m3	5.00	10069.82	Rupees Ten Thousand Sixty Nine and Eighty One Paise Only	50349.10	Rupees Fifty Thousand Three Hundred Forty Nine and Nine Paise Only
46	Steel Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	500.00	120.06	Rupees One Hundred Twenty and Five Paise Only	60029.85	Rupees Sixty Thousand Twenty Nine and Eighty Four Paise Only
47	Centering and shuttering including strutting, propping etc. and removal of form work for :Foundations, footings, bases for columns	m2	33.00	436.55	Rupees Four Hundred Thirty Six and Fifty Four Paise Only	14405.99	Rupees Fourteen Thousand Four Hundred Five and Ninety Nine Paise Only
48	Constructing masonry Chamber 60x45x50 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for water meter complete with C.I. double flap surface box 400x200x200 mm (inside) with locking arrangement and RCC top slab 1:1.5:3 mix (1 cement: 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) , including necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Nos	16.00	10796.52	Rupees Ten Thousand Seven Hundred Ninety Six and Fifty Two Paise Only	172744.37	Rupees One Lakh Seventy Two Thousand Seven Hundred Forty Four and Thirty Six Paise Only
49	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.incl of all material,labour, sundries etc	Kg	3250.00	148.84	Rupees One Hundred Forty Eight and Eighty Three Paise Only	483717.58	Rupees Four Lakh Eighty Three Thousand Seven Hundred Seventeen and Fifty Seven Paise Only
50	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished,machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels.-:Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble:-Area of slab over 0.50 sqm	m2	33.00	3426.91	Rupees Three Thousand Four Hundred Twenty Six and Ninety Paise Only	113087.89	Rupees One Lakh Thirteen Thousand Eighty Seven and Eighty Eight Paise Only
51	Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge. 50 mm average thickness. Rate incl machinery, labour etc.	m2	30.00	285.37	Rupees Two Hundred Eighty Five and Thirty Seven Paise Only	8561.14	Rupees Eight Thousand Five Hundred Sixty One and Fourteen Paise Only
52	Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge.Bars above 12 mm diameter.rate incl of material, labour , sundries etc	m	100.00	18.31	Rupees Eighteen and Thirty One Paise Only	1831.23	Rupees One Thousand Eight Hundred Thirty One and Twenty Three Paise Only

53	Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge. [Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and/or the 75mm size cube crushing strength at the end of 28 days to be not less than 30 N/Sqmm2.] 12 mm average thickness in 2 layers.rate incl of material, labour ,scaffolding, sundries etc	m2	30.00	432.65	Rupees Four Hundred Thirty Two and Sixty Four Paise Only	12979.47	Rupees Twelve Thousand Nine Hundred Seventy Nine and Forty Seven Paise Only
54	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-charge complete in all respect. SBR Polymer (@10% of cement weight) modified cementitious bond coat @ 2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer. rate incl of material, labour ,scaffolding, sundries etc	m2	30.00	317.49	Rupees Three Hundred Seventeen and Forty Eight Paise Only	9524.62	Rupees Nine Thousand Five Hundred Twenty Four and Sixty Two Paise Only
55	Providing and laying SBR Polymer modified (of approved make @ minimum 2% by wt. of cement used) plain/reinforced concrete jacket for the structural members e.g. columns, pillars,piers, beams etc with concrete having the specified minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] with specified average thickness allround existing core of RCC member.Note: Rates shall be for finished surface area of concrete and shall include the cost of makingholes in existing RCC slab, if required, for pouring concrete in shuttering mould of jacket and appropriate approved Super-Plasticiser for rendering concrete as flowable self compacting and SBR polymer but shall exclude cost of reinforcement, bond coat, Shear Keys, centering and shuttering, strutting, propping etc (Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument).50mm thick in Grade M 25 with cement content not less than 330 kg per cum	m2	30.00	633.58	Rupees Six Hundred Thirty Three and Fifty Eight Paise Only	19007.50	Rupees Nineteen Thousand Seven and Fifty Paise Only
56	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete. Incl labour, sundries etc	m2	7130.00	28.00	Rupees Twenty Seven and Ninety Nine Paise Only	199620.26	Rupees One Lakh Ninety Nine Thousand Six Hundred Twenty and Twenty Six Paise Only
57	Applying priming coats with primer of approved brand and manufacture, having low VOC(Volatile Organic Compound) content.With water thinable cement primer on wall surface having VOC content less than 50 grams/litre	m2	4560.00	82.32	Rupees Eighty Two and Thirty Two Paise Only	375387.77	Rupees Three Lakh Seventy Five Thousand Three Hundred Eighty Seven and Seventy Seven Paise Only
58	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.Two coats. .rate incl of material, labour	m2	4560.00	158.97	Rupees One Hundred Fifty Eight and Ninety Six Paise Only	724886.73	Rupees Seven Lakh Twenty Four Thousand Eight Hundred Eighty Six and Seventy Two Paise Only
59	Finishing walls with ready mixed Premium acrylic emulsion paint (Company Depot Tinted) having VOC less than 50 gm/litre and UV resistance as per IS 15489:2004, Alkali & fungal resistance, dirt resistance exterior paint of required shade with silicon additives.New work (Two or more coats applied @ 1.43 litre/ 10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm. rate incl of material, labour , sundries etc	m2	1600.00	201.77	Rupees Two Hundred One and Seventy Six Paise Only	322830.90	Rupees Three Lakh Twenty Two Thousand Eight Hundred Thirty and Ninety Paise Only
60	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre. Incl material , material carriage, labour, sundries etc.	m2	970.00	78.31	Rupees Seventy Eight and Thirty One Paise Only	75964.89	Rupees Seventy Five Thousand Nine Hundred Sixty Four and Eighty Nine Paise Only
61	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:- One or more coats on old work	m2	970.00	114.44	Rupees One Hundred Fourteen and Forty Three Paise Only	111004.85	Rupees One Lakh Eleven Thousand Four and Eighty Four Paise Only
62	Providing and fixing GI Chainlink fabric fencing of required width in mesh size 50 x 50 mm including strengthening with 2mm dia. wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. Made of GI Wire of dia. 4mm., rate incl labour, sundries, carriage etc.	m2	160.00	1083.43	Rupees One Thousand Eighty Three and Forty Three Paise Only	173348.80	Rupees One Lakh Seventy Three Thousand Three Hundred Forty Eight and Eighty Paise Only
63	Clearing of septic tanks of various sizes depth varying from 90 cms to 240 cms including disposal of the contents in trenches dug sufficient deep and covered with good earth as directed by the Engineer-in-charge. Cleaned tanks should be got inspected by the Engineer-in-charge/authorized representative before placing the slab. Special care should be taken to see that materials are not sprinkled on road or premises and the same transported insufficiently big containers. Work should be done only during night between 10.00 o' clock & 5.00 o' clock(payment will be taken for the total inside cubical capacity of the tank.	m3	17.00	1174.00	Rupees One Thousand One Hundred Seventy Four Only	19958.00	Rupees Nineteen Thousand Nine Hundred Fifty Eight Only
64	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved. rate incl of carriage of materials etc.	m3	50.00	293.83	Rupees Two Hundred Ninety Three and Eighty Three Paise Only	14691.59	Rupees Fourteen Thousand Six Hundred Ninety One and Fifty Eight Paise Only
TOTAL PART-A						8963975.46	

PART-B :- ELECTRICAL WORKS								
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm 1.1KV grade FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable, ceiling rose etc as required.	Point	272		1784.59	Rupees One Thousand Seven Hundred Eighty Four and Fifty Eight Paise Only	485407.62	Rupees Four Lakh Eighty Five Thousand Four Hundred Seven and Sixty Two Paise Only
2	Wiring for twin control light point with 1.5 sq.mm 1.1KV Grade FRLS PVC insulated copper conductor single core cable in surface /recessed medium class PVC conduit, 2 way modular switch,modular plate, suitable GI box and earthing the point with 1.5sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	Point	16		1900.15	Rupees One Thousand Nine Hundred and Fifteen Paise Only	30402.45	Rupees Thirty Thousand Four Hundred Two and Forty Five Paise Only
3.1	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required: 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	600	metre		271.28	Rupees Two Hundred Seventy One and Twenty Seven Paise Only	162766.00	Rupees One Lakh Sixty Two Thousand Seven Hundred Sixty Five and Ninety Nine Paise Only
3.2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 4 sq. mm + 1 X 4 sq. mm earth wire	480	metre		406.31	Rupees Four Hundred Six and Thirty Paise Only	195027.24	Rupees One Lakh Ninety Five Thousand Twenty Seven and Twenty Four Paise Only
4	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required: 3 x 1.5 sq. mm	550	metre		115.57	Rupees One Hundred Fifteen and Fifty Six Paise Only	63561.46	Rupees Sixty Three Thousand Five Hundred Sixty One and Forty Six Paise Only
5.1	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required: 20 mm	220	metre		155.71	Rupees One Hundred Fifty Five and Seventy One Paise Only	34256.28	Rupees Thirty Four Thousand Two Hundred Fifty Six and Twenty Eight Paise Only
5.2	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required: 25 mm	170	metre		176.39	Rupees One Hundred Seventy Six and Thirty Nine Paise Only	29986.41	Rupees Twenty Nine Thousand Nine Hundred Eighty Six and Forty One Paise Only
6.1	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required:- TV antenna socket outlet	16	Each		180.04	Rupees One Hundred Eighty and Four Paise Only	2880.64	Rupees Two Thousand Eight Hundred Eighty and Sixty Four Paise Only
6.2	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required:- Bell Push	16	Each		170.31	Rupees One Hundred Seventy and Thirty Paise Only	2724.93	Rupees Two Thousand Seven Hundred Twenty Four and Ninety Three Paise Only
7	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	48	Each		448.88	Rupees Four Hundred Forty Eight and Eighty Eight Paise Only	21546.42	Rupees Twenty One Thousand Five Hundred Forty Six and Forty Two Paise Only
8	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	48	Each		48.66	Rupees Forty Eight and Sixty Five Paise Only	2335.66	Rupees Two Thousand Three Hundred Thirty Five and Sixty Five Paise Only
9	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. (For light plugs to be used in non residential buildings).	68	each		580.26	Rupees Five Hundred Eighty and Twenty Six Paise Only	39457.98	Rupees Thirty Nine Thousand Four Hundred Fifty Seven and Ninety Eight Paise Only
10	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block/PVC block including connections etc. as required.	32	each		105.83	Rupees One Hundred Five and Eighty Three Paise Only	3386.70	Rupees Three Thousand Three Hundred Eighty Six and Seventy Paise Only
11	Installation, testing and commissioning of pre-wired, LED fitting / fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	192	each		250.60	Rupees Two Hundred Fifty and Fifty Nine Paise Only	48114.51	Rupees Forty Eight Thousand One Hundred Fourteen and Fifty Paise Only
12	Supply and fixing the superior quality 250V A.C call bell on 100x150x50 mm GI box in recess, and giving connections with required length of 3 core, 16 / 0.20mm 650/1100V grade PVC insulated and PVC sheathed round copper conductor flex wire conforming to relevant ISS or with the extended original wiring, earthing the MS box and making good the surface as required.	16	Nos		350.00	Rupees Three Hundred Fifty Only	5600.00	Rupees Five Thousand Six Hundred Only
13	Supply, conveyance, installation, testing and commissioning of the 400 mm, single phase, heavy duty, 1400 rpm exhaust fan in metal frame sizes of exhaust fans in the existing opening, fixing necessary bolt and nuts, making good the damages etc. as required including giving connections with required length of 24/0.20mm PVC insulated and PVC sheathed 3 core round copper conductor flex wire conforming to relevant ISS.	16	Nos		7044.71	Rupees Seven Thousand Forty Four and Seventy One Paise Only	112715.36	Rupees One Lakh Twelve Thousand Seven Hundred Fifteen and Thirty Six Paise Only

14	Supply, conveyance, installation, testing and commissioning of the 305 mm, single phase, PVC, 1400 rpm exhaust fan in PVC frame sizes of exhaust fans in the existing opening, fixing necessary bolt and nuts, making good the damages etc. as required including giving connections with required length of 24/0.20mm PVC insulated and PVC sheathed 3 core round copper conductor flex wire conforming to relevant ISS.	32	Nos	3200.00	Rupees Three Thousand Two Hundred Only	102400.00	Rupees One Lakh Two Thousand Four Hundred Only
15	Supply and fixing 45 watt, 120 LM/W, LED Street light of reputed make with bracket /GI pipes and all accessories.	2	Nos	2400.00	Rupees Two Thousand Four Hundred Only	4800.00	Rupees Four Thousand Eight Hundred Only
16	Supply, conveyance, installation, testing and commissioning of ceiling fans of the following sizes using standard accessories excluding resistance type regulator, wiring the down rod with 16/0.20mm PVC insulated and PVC sheathed 650/1100V grade 3 core round copper conductor flex wire or with extended original wiring etc. as required. 1200 mm sweep - 5 star	48	Nos	3100.00	Rupees Three Thousand One Hundred Only	148800.00	Rupees One Lakh Forty Eight Thousand Eight Hundred Only
17	Supply and installation of suitable size SS rod type fan clamp as required.	40	Nos.	124.00	Rupees One Hundred Twenty Four Only	4960.00	Rupees Four Thousand Nine Hundred Sixty Only
18	Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 16 A switch and modular socket etc. as required.	32	each	884.39	Rupees Eight Hundred Eighty Four and Thirty Eight Paise Only	28300.36	Rupees Twenty Eight Thousand Three Hundred and Thirty Six Paise Only
19	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator): 12 way, Double door	16	each	2816.17	Rupees Two Thousand Eight Hundred Sixteen and Sixteen Paise Only	45058.69	Rupees Forty Five Thousand Fifty Eight and Sixty Eight Paise Only
20	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required :- 4 way (4 + 12), Double door	2	each	6874.37	Rupees Six Thousand Eight Hundred Seventy Four and Thirty Six Paise Only	13748.74	Rupees Thirteen Thousand Seven Hundred Forty Eight and Seventy Three Paise Only
21.1	Supplying and fixing 6 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required:- Single pole	128	Each	311.42	Rupees Three Hundred Eleven and Forty Two Paise Only	39861.86	Rupees Thirty Nine Thousand Eight Hundred Sixty One and Eighty Five Paise Only
21.2	Supplying and fixing 6 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required:- Single pole and neutral (DP MCB type Isolator)	16	Each	728.68	Rupees Seven Hundred Twenty Eight and Sixty Seven Paise Only	11658.81	Rupees Eleven Thousand Six Hundred Fifty Eight and Eighty One Paise Only
22	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required:- 40 A	16	Each	3213.96	Rupees Three Thousand Two Hundred Thirteen and Ninety Five Paise Only	51423.35	Rupees Fifty One Thousand Four Hundred Twenty Three and Thirty Five Paise Only
23	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	16	Each	15.81	Rupees Fifteen and Eighty One Paise Only	253.03	Rupees Two Hundred Fifty Three and Two Paise Only
24	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB VDB complete with connections, testing and commissioning etc. as required:- 100A	2	Each	1492.63	Rupees One Thousand Four Hundred Ninety Two and Sixty Two Paise Only	2985.26	Rupees Two Thousand Nine Hundred Eighty Five and Twenty Five Paise Only
25	Earthing with G.I. earth pipe/ rod with Cu bonding 1 metre long, 40 mm dia including accessories etc. as required.	4	Each	1200.00	Rupees One Thousand Two Hundred Only	4800.00	Rupees Four Thousand Eight Hundred Only
26	Supply and drawing following size of bare earthing conductors along with wiring/ cables and giving connection as required. 2.00 mm copper conductor (14 SWG)	100	meter	50.00	Rupees Fifty Only	5000.00	Rupees Five Thousand Only
27.1	Supply, laying and clamping of following sizes of 1 no. PVC insulated and PVC sheathed armoured power cable, 1.1 KV grade using clamps noted along with the cables, spacing of clamps not exceeding 60cms, making good the damages, colour washing etc. as required:- 3.5 core 25 sq mm, Aluminium cable with factory made clamp	100	metre	232.05	Rupees Two Hundred Thirty Two and Five Paise Only	23205.00	Rupees Twenty Three Thousand Two Hundred Five Only
27.2	Supply, laying and clamping of following sizes of 1 no. PVC insulated and PVC sheathed armoured power cable, 1.1 KV grade using clamps noted along with the cables, spacing of clamps not exceeding 60cms, making good the damages, colour washing etc. as required:- 4 core 4 sq mm Copper with factory made clamp	280	metre	308.00	Rupees Three Hundred Eight Only	86240.00	Rupees Eighty Six Thousand Two Hundred Forty Only
28.1	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. Do----4x6 sq mm-----Do	40	Nos	327.24	Rupees Three Hundred Twenty Seven and Twenty Four Paise Only	13089.60	Rupees Thirteen Thousand Eighty Nine and Sixty Paise Only
28.2	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. Do----4x25 sq mm-----Do	6	Nos	383.19	Rupees Three Hundred Eighty Three and Nineteen Paise Only	2299.14	Rupees Two Thousand Two Hundred Ninety Nine and Fourteen Paise Only

29	Dimantling the Existing Electrical fittings , wirings material, DB's, fans, wswitch boards, Meter boxes etc. for 16 nos. of quarters and handing over to testing and repair section.	1	LS	18708.84	Rupees Eighteen Thousand Seven Hundred Eight and Eighty Three Paise Only	18708.84	Rupees Eighteen Thousand Seven Hundred Eight and Eighty Three Paise Only
30	Supplying of 4 feet LED Tubelight fittings 20W	64	Nos	230.00	Rupees Two Hundred Thirty Only	14720.00	Rupees Fourteen Thousand Seven Hundred Twenty Only
31	Supply and fixing of 9W LED wall luminaires	64	Nos	960.00	Rupees Nine Hundred Sixty Only	61440.00	Rupees Sixty One Thousand Four Hundred Forty Only
32	Supplying of 18W Bulk head light of reputed make	24	Nos	470.00	Rupees Four Hundred Seventy Only	11280.00	Rupees Eleven Thousand Two Hundred Eighty Only
33	SITC of Single phase Meter box. 16 Nos. and fixing the Energy Meter, Isolator, MCB etc. as required.	16	Nos.	1550.00	Rupees One Thousand Five Hundred Fifty Only	24800.00	Rupees Twenty Four Thousand Eight Hundred Only
TOTAL PART-B						196002.34	
GRAND TOTAL FOR PART-A+PART-B						1,09,23,978	Rupees One Crore Nine Lakh Twenty Three Thousand Nine Hundred Seventy Eight Only
BIDDER'S QUOTING AREA							
Sl. No.	Description of Work: RENOVATION OF TYPE-III QUARTERS AT RNAS AREA	Departmental Estimated Cost (Rs)	Percentage Quoted above/ below the Departmental Amount by the Bidder		Above/Below		
			* In Figures	*In Words			
	Perccentatge Quoted above / below the Departmental Amount shown in the above Schedule						
* Note							
1. The Bidder shall quote both in figures and words							
2. The Bidders shall also quote Above / Below in words themselves in the last column							
3. Only two decimal digits will be accepted.							