

मिरा भाईंदर महानगरपालिका

प्रशासकीय ठरावासाठी गोपवारा

// बांधकाम/ विद्युत विभाग //

दि. २०/०३/२०२५

प्रकरण क्रमांक. (४५७) मिरा-भाईंदर महानगरपालिका क्षेत्रात नागरी स्थानिक स्वराज्य संस्थेच्या परिक्षेत्रात अधिसूचित विशिष्ट नागरी सेवा व सुविधा या अंतर्गत विविध विकास कामांचे प्रस्ताव सादर करणेस मान्यता देणेबाबत.

// प्रस्तावना //

मिरा-भाईंदर महानगरपालिका क्षेत्रात नागरी स्थानिक स्वराज्य संस्थेच्या परिक्षेत्रात अधिसूचित विशिष्ट नागरी सेवा व सुविधा या अंतर्गत कामे करण्यास शासन निर्णय क्र. संकीर्ण २०२४/प्र.क्र.८७(१३८)/क.१४११ दि.१४/१०/२०२४ अन्वये मान्यता प्राप्त झालेली आहे. त्यानुसार खालीलप्रमाणे अंदाजपत्रके तयार करण्यात आलेली आहेत.

अ.क्र.	कामाचे नाव.	अंदाजित खर्च
१.	ओवळा भाजिवडा विधानसभा क्षेत्रातील मिरा-भाईंदर महानगरपालिका हद्दीतील प्रभाग क्र.११ इंदिरा नगर परिसरातील गटारे व पायवाटा करणे.	रु.५०,००,०००/-
	एकूण	रु.५०,००,०००/-

तरी वरील कामाचे रु.५०,००,०००/- इतक्या रकमेचे अंदाजपत्रक तयार करण्यात आले असून प्रशासकीय व आर्थिक मान्यतेसाठी मा. जिल्हाधिकारी, जिल्हाधिकारी कार्यालय, ठाणे यांचेकडे प्रस्ताव सादर करण्यासाठी प्रशासकीय ठरावाव्दारे मान्यता देण्यास शिफारस आहे.


(दिपक खांबित)

शहर अभियंता

मिरा भाईंदर महानगरपालिका

मा. आयुक्त यांच्या मान्यतेने

मिरा-भाईंदर महानगरपालिका

प्रशासकीय ठराव ४५७ दिनांक :- २७/०३/२०२५

प्रकरण क्रमांक :- (४५७) मिरा-भाईंदर महानगरपालिका क्षेत्रात नागरी स्थानिक स्वराज्य संस्थेच्या परिक्षेत्रात अधिसूचित विशिष्ट नागरी सेवा व सुविधा या अंतर्गत विविध विकास कामांचे प्रस्ताव शासनास पाठविणेस मान्यता देणे.

ठराव क्रमांक :- (४५७)

मिरा-भाईंदर महानगरपालिका क्षेत्रात नागरी स्थानिक स्वराज्य संस्थेच्या परिक्षेत्रात अधिसूचित विशिष्ट नागरी सेवा व सुविधा या अंतर्गत कामे करण्यास शासन निर्णय क्र. संकीर्ण २०२४/प्र.क्र.८७(१३८)/क.१४११ दि.१४/१०/२०२४ अन्वये मान्यता प्राप्त झालेली आहे. त्यानुसार खालीलप्रमाणे अंदाजपत्रके तयार करण्यात आलेली आहेत.

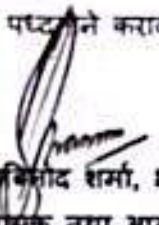
अ.क्र.	कामाचे नाव.	अंदाजित खर्च
१.	ओवळा माजिवडा विधानसभा क्षेत्रातील मिरा-भाईंदर महानगरपालिका हद्दीतील प्रभाग क्र.११ इंदिरा नगर परिसरातील गटारे व पायवाटा करणे.	रु.५०,००,०००/-
	एकूण	रु.५०,००,०००/-

तरी वरील कामाचे रु. ५०,००,०००/- इतक्या रक्कमेचे अंदाजपत्रक तयार करण्यात आले असून प्रशासकीय व आर्थिक मान्यतेसाठी मा. जिल्हाधिकारी, जिल्हाधिकारी कार्यालय, ठाणे यांचेकडे प्रस्ताव सादर करावयाचा आहे.

महाराष्ट्र महानगरपालिका अधिनियम तरतुदी व विशेषतः कलम ४५२ (अ) च्या (१३अ) व (१३ब) नुसार, महाराष्ट्र शासन, नगरविकास विभागाकडील शासन आदेश क्रमांक :- एमसीओ २०२०/प्र.क्र.७१ (भाग-२)/ नवि-१४ दिनांक २६ ऑगस्ट २०२२ अन्वये प्राप्त अधिकारानुसार मी, श्री. राधाबिनोद शर्मा, प्रशासक तथा आयुक्त, मिरा भाईंदर महानगरपालिका मा. महानगरपालिका महासभेच्या अधिकाराचा वापर करून प्रशासनाने सादर केल्यानुसार वरील कामांचे रु. ५०,००,०००/- इतक्या रक्कमेचे अंदाजपत्रक तयार करण्यात आले असून प्रशासकीय व आर्थिक मान्यतेसाठी मा. जिल्हाधिकारी, जिल्हाधिकारी कार्यालय, ठाणे यांचेकडे प्रस्ताव सादर करण्यासाठी व एकत्रित निविदा मागविणेस प्रशासकीय ठरावाव्दारे मान्यता देण्यात येत आहे.

सादर कामाबाबतची पुढील कार्यवाही नियमानुसार संबंधित विभागाने विहित पद्धतीने करावी.


(वासुदेव शिरवळेकर)
नगरसचिव
मिरा भाईंदर महानगरपालिका


(राधाबिनोद शर्मा, भा.प्र.से.)
प्रशासक तथा आयुक्त
मिरा भाईंदर महानगरपालिका

मिरा भाईंदर महानगरपालिका

प्रशासकीय ठरावासाठी गोषवारा

// बांधकाम/ विद्युत विभाग //

दि. 23/03/2024

प्रकरण क्रमांक. (४५८) भारतरत्न डॉ. बाबासाहेब आंबेडकर सामाजिक विकास योजना सन 2024-25

अंतर्गत विविध विकास कामे करणे कामी शासनास प्रस्ताव पाठविणेस मान्यता देणेबाबत.

// प्रस्तावना //

भारतरत्न डॉ. बाबासाहेब आंबेडकर सामाजिक विकास योजनेतर्गत सन 2024-25 या वर्षासाठी मिरा भाईंदर महानगरपालिका हद्दीतील विविध विकास कामाचे प्रस्ताव सादर करणे अंतर्गत महाराष्ट्र शासन सामाजिक न्याय व विशेष सहाय्य विभाग यांचे कडील जा.क्र. सावियो-2024/प्र.क्र./703/अजाक दि.15/10/2024 रोजीच्या शासन निर्णयाव्दारे मंजूरी प्राप्त झालेली आहे. त्या अनुशंगाने खालीलप्रमाणे अंदाजपत्रके सादर करण्यात आली आहेत.

अ.क्र.	कामाचे नाव.	अंदाजित खर्च
1.	औवळा माजिवडा विधानसभा क्षेत्रातील मिरा-भाईंदर महानगरपालिका हद्दीतील प्रभाग क्र.11 हुंदिरा नगर परिसरातील गटारे व पायवाटा करणे.	रु.24,99,900/-
	एकूण	रु. 24,99,900/-

तरी वरील कामाचे रु. 24,99,900/- इतक्या रक्कमेचे अंदाजपत्रक तयार करण्यात आले असून प्रशासकीय व आर्थिक मान्यतेसाठी मा. जिल्हाधिकारी, जिल्हाधिकारी कार्यालय, ठाणे यांचेकडे प्रस्ताव सादर करण्यासाठी प्रशासकीय ठरावाव्दारे मान्यता देण्यास शिफारस आहे.


(दिपक खांबित)

शहर अभियंता

मिरा भाईंदर महानगरपालिका

मा. आयुक्त यांच्या मान्यतेने

मिरा-भाईंदर महानगरपालिका

प्रशासकीय ठराव ४५८ दिनांक :- २०/०३/२०२५

प्रकरण क्रमांक :- (४५८) भारतरत्न डॉ. बाबासाहेब आंबेडकर सामाजिक विकास योजना सन २०२४-२५ अंतर्गत विविध विकास कामे करणे कामी शासनास प्रस्ताव पाठविणेस मान्यता देणे.

ठराव क्रमांक :- (४५८)

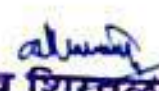
भारतरत्न डॉ. बाबासाहेब आंबेडकर सामाजिक विकास योजनेतर्गत सन २०२४-२५ या वर्षासाठी मिरा भाईंदर महानगरपालिका हद्दीतील विकास कामाचे प्रस्ताव सादर करणेस शासन शुध्दीपत्रक क्र. सावि-२०२४/प्र.क्र.७०३/अजाक दि.१५/१०/२०२४ अन्वये मान्यता प्राप्त आहे. त्या अनुशंगाने खालीलप्रमाणे अंदाजपत्रके सादर करण्यात आली आहेत.

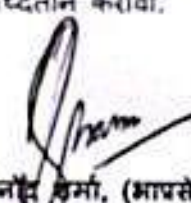
अ.क्र.	कामाचे नाव.	अंदाजित खर्च
१.	ओवळा माजिवडा विधानसभा क्षेत्रातील मिरा-भाईंदर महानगरपालिका हद्दीतील प्रभाग क्र.११ इंदिरा नगर परिसरातील गटारे व पायवाटा करणे.	रु.२४,९९,९००/-
	एकूण	रु.२४,९९,९००/-

तरी वरील कामाचे रु.२४,९९,९००/- इतक्या रक्कमेचे अंदाजपत्रक तयार करण्यात आले असून प्रशासकीय व आर्थिक मान्यतेसाठी मा. जिल्हाधिकारी, जिल्हाधिकारी कार्यालय, ठाणे यांचेकडे प्रस्ताव सादर करावयाचा आहे.

महाराष्ट्र महानगरपालिका अधिनियम तरतुदी व विशेषतः कलम ४५२ (अ) च्या (१३) व (१४) नुसार, महाराष्ट्र शासन, नगरविकास विभागाकडील शासन आदेश क्रमांक :- एमसीओ २०२०/प्र.क्र.७१ (भाग-२) नवि-१४ दिनांक २६ ऑगस्ट २०२२ अन्वये प्राप्त अधिकारानुसार मी, श्री. राधाबिनोद शर्मा, प्रशासक तथा आयुक्त, मिरा भाईंदर महानगरपालिका मा. महानगरपालिका महासभेच्या अधिकाराचा वापर करून प्रशासनाने सादर केल्यानुसार वरील कामाचे रु.२४,९९,९००/- इतक्या रक्कमेचे अंदाजपत्रक तयार करण्यात आले असून प्रशासकीय व आर्थिक मान्यतेसाठी मा. जिल्हाधिकारी, जिल्हाधिकारी कार्यालय, ठाणे यांचेकडे प्रस्ताव सादर करण्यासाठी व एकत्रित निविदा मागविणेस प्रशासकीय ठरावाव्दारे मान्यता देण्यात येत आहे.

सदर कामाबाबतची पुढील कार्यवाही नियमानुसार संबंधित विभागाने विहित पध्दतीने करावी.


(वासुदेव शिष्टवळकर)
नगरसचिव
मिरा भाईंदर महानगरपालिका


राधाबिनोद शर्मा, (भाप्रसे)
प्रशासक तथा आयुक्त
मिरा भाईंदर महानगरपालिका

मिरा-भाईंदर महानगरपालिका

बांधकाम विभाग

दि. २७/०३/२०२५

// गोपवारा //

प्रकरण क्र. (४५९) :- निविदेस मान्यता देणेबाबत.

मिरा भाईंदर महानगरपालिका हद्दीमध्ये शिवसेनाप्रमुख स्व. बाळासाहेब ठाकरे कलादालनाची कामे करणे. (मुलभुत सोई सुविधांचा विकास) (E-996149)

अ. क्र.	टेंडर आय डी	कामाचे नाव	अंदाजित खर्च	निविदाधारकाचे नाव
1	2	3	4	5
1.	1113280_1	मिरा भाईंदर महानगरपालिका हद्दीमध्ये शिवसेनाप्रमुख स्व. बाळासाहेब ठाकरे कलादालनाची कामे करणे. (मुलभुत सोई सुविधांचा विकास)	₹.40,53,15,728/-	मे. शायोना कॉर्पोरेशन मे. के.ई इन्फ्रास्ट्रक्चर प्रा.लि.

Sl. No.	Item Description	Qty	Units	Ms. Shayona Corporation		M/S. K E Infrastructure Pvt Ltd	
				Quoted Rate	Quoted Amount	Rate	Amount
1.01	Excavation for foundation of structure as per drawing and technical specifications including setting out, construction of shoring, brushing, removal of stumps and other deleterious matter, dressing of side and bottom and back filling with approved material etc. complete. (in marshy soil by mechanical means)	614.25	Cubic Metre	860	528255.00	946	581080.5
1.02	Removing lime or lean cement concrete including stacking the spoils as directed with all leads, lifts etc. complete	81.90	Cubic metre	586	47993.40	644.6	52792.74
1.03	Removing rich mix cement concrete including stacking the spoils as directed with all leads, lifts etc. complete	12.6	Cubic metre	977	12310.20	1074.7	13541.22
1.04	Dismantling the R.C.C. Work 1:2:4 and sorting out the materials such as steel etc. as directed and stacking them within the specified lead as directed etc. complete.	245.7	Cubic metre	1524	374446.80	1676.4	411891.48
1.05	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means	614.3	Cubic Metre	400	245720.00	440	270292
1.06	Excavation for foundation in earth, soils of all types, sand, gravel and soft murum, including removing the excavated material upto a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5m to 3.0m) By Mechanical Means	614.3	Cubic Metre	400	245720.00	440	270292
1.07	Excavation for foundation in hard murum and boulders including removing the excavated material up to a distance 50 metres, beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and	614.3	Cubic Metre	400	245720.00	440	270292

	strutting etc. complete. (Lift upto 1.5m.) By Mechanical Means						
1.08	Excavation for foundation in Hard murum and boulders including removing the excavated material upto a distance of 50 metres, beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5 m to 3.0 m.) By Mechanical Means	614.3	Cubic Metre	400	245720.00	440	270292
1.09	Excavation for foundation in Soft rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 metres beyond the building area and stacking as directed, including dewatering, preparing the bed for the foundation and necessary back filling with available earth /murum, ramming, watering including shoring and strutting etc. complete (lift upto 1.5m) By Mechanical Means	614.3	Cubic Metre	750	460725.00	825	506797.5
1.1	Excavation for foundation in Soft rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 metres beyond the building area and stacking as directed, including dewatering, preparing the bed for the foundation and necessary back filling with available earth/murum, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5m To 3.0 m.) By Mechanical Means	122.9	Cubic Metre	750	92175.00	825	101392.5
1.11	Item No 03 Transporting Of Excavated Materials Lead 20.00 KM	4148.55	Cum	150	622282.50	165	684510.75
1.12	Dewatering on BHP basis by using water pump including diversion of stream, providing cofferdams, earthen bunds etc. as may be necessary for foundation and other parts of the the works and pumping out water during and after excavation as may be required by using 3.0 BHP pump etc. complete. (prior approval of Superintending Engineer will be necessary)	5040	Hour	250	1260000.00	275	1386000
1.13	Dewatering on BHP basis by using water pump including diversion of stream, providing cofferdams, earthen bunds etc. as may be necessary for foundation and other parts of the the works and pumping out water during and after excavation as may be required by using 5.0 to 9.0 BHP pump etc. complete. (prior approval of Superintending Engineer will be necessary)	1890	Hour	250	472500.00	275	519750
1.14	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete. SSR 21.38 / 201	245.7	Cum	3240	796068.00	3564	875674.8
1.15	Providing and laying Cast in situ/Ready Mix cement concrete in M20 of trap/ granite/ quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With	81.90	Cum	17000	1392300.00	18700	1531530

	fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) (PCC) SSR 24.10 / 227						
1.16	Filling in plinth and floors with contractors material brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc. complete. SSR 21.37 / 201	1050.00	Cum	150	157500.00	165	173250
1.17	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete. SSR 21.36/195	1050.00	Cum	2450	2572500.00	2695	2829750
1.18	Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap / granite / quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C columns and steel stanchion etc. columns as per detailed designs and drawing or as directed including Steel centering formwork, cover blocks laying/pumping, compaction finishing the formed surface with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) SSR 25.15/231	136.50	Cum	19500	2661750.00	21450	2927925
1.19	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. pards of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	191.1	Cum	24500	4681950.00	26950	5150145
1.2	Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap / granite / quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	27.05	CUM	24500	662725.00	26950	728997.5
1.21	Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch	109.20	Cum	24500	2675400.00	26950	2942940

	mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) SSR 25.74 / 237						
1.22	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels, parrs, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete. SSR 26.33 / 245	139.15	MT	105000	14610750.00	156200	21735230
1.23	Providing and applying Anti corrosive treatment to reinforcement as per cement polymer composite coating (C.P.C.C.) method developed by C.E.C.R.I. including cleaning the bar by means of any established mechanical or manual method for removing rust and deleterious material, applying rapid setting primer and cement polymer sealing coat of approved and licensed by CECR including redoing the process if damage occurs during handling, stacking etc. complete. (With prior approval of SE)	139.1544	MT	5500	765349.20	13036.1	1814030.67
1.24	Providing filling of Micro -concrete and 10mm aggregate (1:1) including scarificial leak proof MS shuttering includes the cost of hire charges of all machineries, barge, boat, cost of all tools and all labour charges etc., complete.	1.68	Cum	320000	537600.00	352000	591360
1.25	Providing and laying weep holes of 100 mm diameter PVC pipes as per drawing for abutment returns, return walls etc. Complete.	302.4	Running Meter	560	169344.00	616	186278.4
1.26	Providing and laying of filter media with granular materials/ stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2 of MoRTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition as per drawing and technical specifications etc. complete.	245.7	cum	4000	982800.00	4400	1081080
1.27	Providing and fixing in position steel fibre reinforced concrete (SFRC) frame and covers (if approved make including, 0.90 x 0.60 m in size loading, unloading, transportation, all taxes etc. complete as directed by Engineer-in-charge (20 tonnes capacity)	42	Non	14200	596400.00	15620	656040
1.28	Providing and laying concrete pipes of I.S.NP. class of 150mm diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete.	21	Running Metre	1250	26250.00	1375	28875
1.29	Providing and laying concrete pipes of I.S.NP. class of 225mm diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete.	21	Running Metre	1450	30450.00	1595	33495
1.3	Providing and laying concrete pipes of I.S.NP. class of 300mm diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete.	21	Running Metre	1450	30450.00	1595	33495

1.31	Providing and casting in situ or precast tapering R.C.C. M-20 Barrier type Kerb without gutter (as per IRC861983) embedded 125mm below ground level over M-10 PCC finished neatly with C.M. 1:2, setting the same in C.M. 1:2, including the required excavation in any strata and removing the excavated stuff any where in city and redoing the surface as specified and directed by Engineering In-charge. Using Concrete Batching and Mixing Plant	136.5	Cubic Metre	27500	3753750.00	30250	4129125
1.32	Providing and Fixing Processed Stone Cladding on wall surface /plywood surface. RCC pardi /Wall and all type of Interior, Exterior Compound wall and Gate etc. of cladding processed stone with material of Processed clay, Wooden chips, Silica sand, Cement, GFRc admixtures, Colour pigments, Fiber up to thick of 230mm/ 25mm including scaffolding, fixing of screw, etc. (As directed by Engineer in Charge)	2012	Sqm	11500	23138000.00	12650	25451800
1.33	Extra for providing additional thickness of brickbats over 100 mm in 1:5 c.s. either due to location of rain water pipes or due to increase in the travel length of flow of rain water or brick bats required in the sunk portion of baths, W.C.s nahani etc. The rate includes for fixing brickbats in C.M., with waterproofing compound as per specification as directed.	413	Cum.	15500	6401500.00	17050	7041650
1.34	Providing and applying one pack bonding coat between concrete members like RCC slabs, columns, beams, chajjas, pardi set and cement mortar plaster using Bonding Agent of approved make & approved by Engineer in-charge. Clean the concrete surface thoroughly to remove dust, dirt, grime, desluttering oils and rub down to a clean surface. Apply Bonding agent of approved make & approved by Engineer in-charge by spray on the entire concrete surface. Provide a lean cement-sand dash coat over the same. Allow the dash coat to set for around 24 hours. Further plastering as per specifications	573	Sqm	325	186225.00	357.5	204847.5
1.35	Providing and fixing polished natural stone tiles as specified below of approved quality, pattern and colour for dado including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in proportion 1:3, square cut top edge or chamfered top edge, grooving, moulding etc in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement or pigment mixed with cement, polishing, finishing, curing etc complete as directed by Engineer In Charge (Gangsaw Granite or Equivalent)	462	Sqm	9650	4458300.00	10615	4904130
1.36	Providing & Fixing in position, Carpet more than 1200 gsm, made with 100% stain proof fibres of approved make along with 5mm underlay as per Architectural & Acoustical Design & Instructions & Complete in all aspects including all materials labour, finishing etc complete	1247	Sqm	4450	5549150.00	4895	6104065
1.37	Providing leather finished polishing to Granite Stone slab by continuous grinding in 4 coats of different bits to receive rough and matt finish including buffing process before laying and fixing of stone as per drawing and design, including cleaning, washing and finishing etc. complete	1250.00	Sqm	756	945000.00	831.6	1039500
1.38	Providing wax polishing to floors and dado, preparing the surface, scaffolding etc. complete.	2950.00	Sqm	463	1365850.00	509.3	1502435
1.39	Providing Mirror polishing to Kota Stone including using all necessary stones and equipments cleaning, washing etc. complete. For Flooring	503.00	Sqm	156	78468.00	171.6	86314.8

1.4	Providing Mirror polishing to Kota Stone including using all necessary stones and equipments cleaning, washing etc. complete, For Skirting	98.00	Rmt	83	8134.00	91.3	8947.4
1.41	Rounding the edge in half round shape of the stone work specified below including high gloss machine polishing as directed by Engineer In Charge a) Kota stone	138.00	Rmt	150	20700.00	165	22770
1.42	Rounding the edge in half round shape of the stone work specified below including high gloss machine polishing as directed by Engineer In Charge c) Any type of Granite stone	500.00	Rmt	210	105000.00	231	115500
1.43	Champhering the edge of the stone work specified below including high gloss machine polishing as directed by Engineer In Charge a) Kota stone	500	Rmt	120	60000.00	132	66000
1.44	Champhering the edge of the stone work specified below including high gloss machine polishing as directed by Engineer In Charge c) Any type of Granite stone	500	Rmt	190	95000.00	209	104500
1.45	Providing & making 5mm gap in flooring & dado by using Spacer and gap to be filled with epoxy polymer based grout of Bal Endura make to match the colour & shade of flooring tiles as per instruction of Engg. In charge etc complete.	1823.096 165	SMT	750	1367322.12	825	1504054.336
1.46	Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted / welded connections without connecting plates, braces etc. and including one coat of epoxy paint and over it two coats of oil painting of approved quality and shade etc. complete.	15.95	MT	345000	5502750.00	379500	6053025
1.47	Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/ structure, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube chalis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it there after. The scaffolding system shall best if fened with bracings, runners, connecting with the building etc., wherever required, if feasible, for inspection of work at required locations with essential safety features for the work men etc., complete as per directions and approval of Engineer-in-charge.	94114	Sqm	650	61174100.00	715	67291510
1.48	Providing & fixing in position 35 mm thick 1st quality water proof Single Leaf Flush Door for w.c. with 1mm thick laminate on both sides with 12x35mm lipping patti on all edges. Rate is inclusive of s.s. fixtures & fittings, such as handles on both sides, tower bolts, locking arrangement, door stopper of make (Dorma, Geze, Haffie) 450 x 150mm aluminum ventilation grill powder coated, as per architect's detailed drg. and design etc complete	41	Sqm	28500	1168500.00	31350	1285350
1.49	Single Leaf Flush Door Providing and fixing of single leaf flush door with, shutter to be made of 35 mm thick marine grade block board core with teak wood lipping patti & 1 mm thick approved decorative laminate finish on both faces. All exposed T.W. surfaces to be painted in 2 coats of flat enamel paint of approved shade over 1 coat of primer of approved make including preparation of surface. All surfaces of	26	Sqm	28500	741000.00	31350	815100

1	frame, in contact with brick masonry or concrete should be tar painted. (Black Japan). All other necessary fittings and fastenings to be of chrome finish brass. (Unless otherwise mentioned in the drawing)						
1.5	Fire rated Double leaf Door - Laminate Finish: Providing & Fixing of Wooden Fire door without Panic Bar of approved make and of required size, 120 minutes fire rating, integrity and insulation in accordance with the criteria of BS 476 : Part 22 : 1987 and report 212 (1)FR/2003; Insulation on door leaf only. Tested at Fire Research Laboratory, Central Building Research Institute, Roorkee with standard heating conditions as specified in IS : 3809-1979 and BS : 476 part 20 & 22, 1987 to achieve the required integrity & insulation (i.e. to restrict the heat radiation, temperature rise on the non fire side to the maximum of 140 degree Centigrade above the ambient temperature on the unexposed surface of the shutter). Red Mirranti Hard wood frame of section 145mm x 70mm with Intumescent strip (Imported) to take care of Hot and cold smoke of size 10mm x 2mm x 2Nos. Concealed in the grove of the frame and 55mm thick single leaf shutter made out of perimeter railing of Red Mirranti wood of size 100mm x 29mm and promina 60.9mm thick Calcium Silicate Board Fire Retardant compound on each side coated with Intumescent sealant and faced with 4mm thick marine ply with Fire and smoke Intumescent Seal of size 20mm x 2mm x 1 No., mounted in the grooves in the shutter on all sides except bottom with 10mm thick Hardwood beading on all side. The Fire Doors with frame will be as per IS: 3614 part 2 and BS: 476 part 20 at FRL. CBRI Roorkee with standard heating conditions as specified in IS: 3809 - 1979 and BS: 476 part 20 & 22 1987. The door shall be finished with 1 mm thick fire retardant laminate on both side etc.,with approved Stainless steel fittings & Fixtures all complete to the entire specification as per Architect's Instruction.FRD -2 SIZE- 1.250 x 2.350m as Directed by Engineer incharge.	12	Sqm	45000	540000.00	49500	594000
1.51	Providing and fixing ISI marked double swing flush door shutters conforming to IS :2202 (Part I) Non-decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 30 mm thick including ISI marked Stainless Steel L- hinges with necessary screws Fittings & Fixtures per leaf SS kick plates on both sides of the door of 300mm height Heavy Duty satin finish butt SS Hinges (100mm x 75mm x 3mm in size) -4 nos. SS finished lever handle with mortise lock- 1 One Number Floor spring- 1 One Number 100mm x 100mm safety glass at the specified location	3.168	Sqm	13125	41580.00	14437.5	45738
1.52	Supply, installation, testing and commissioning of extruded aluminium powder coated linear R"Grilles for Supply /Return grill without volume control dampers.	2.86	SMT	11752	33610.72	12927.2	36971.792
1.53	Supply & Installation laminate 1mm thk both side laminate hydraulic pressed by machine make century virgo Or Equivalent as directed by Engineer in charge etc completed	161.57	SMT	3400	549338.00	3740	604271.8
1.54	Supply & Installation SS ball bearing butt hinges 5" each door make (Dorma, Geze, Haffle) as directed by Engineer in charge etc completed	136	nos	542	73712.00	596.2	81083.2
1.55	Supply & Installation Surface mounted door closer With standard arm size 2 each	34.00	nos	4902	166668.00	5392.2	183334.8

	door make (Dorma,Geze,Hafle) as directed by Engineer in charge etc completed						
1.56	Supply & Installatoin Pull handle back to back fixing each door make (Dorma,Geze,Hafle) as directed by Engineer in charge etc completed	68.00	nos	1806	122808.00	1986.6	135088.8
1.57	Supply & Installatoin autodrop seal each door make (Dorma,Geze,Hafle) as directed by Engineer in charge etc completed	34	nos	4730	160820.00	5203	176902
1.58	Supply & Installatoin mortise Cylinder dead lock back, set,24mm forend With Euro profile double cylinder keyed Diff.Door lock 1 each door make (Dorma,Geze,Hafle) as directed by Engineer in charge etc completed	17	nos	3223	54791.00	3545.3	60270.1
1.59	Supply & Installatoin 10mm thk rod 55 tower bolt 4 each door make (Dorma,Geze,Hafle) as directed by Engineer in charge etc completed	68	nos	671	45628.00	738.1	50190.8
1.6	Making holes in 75 mm to 200 mm brick/concrete/rubble walls for drainage pipes, fittings, etc. and making good the same in cement mortar 1:3 or cement concrete 1:2:4 & finishing on both sides with cement plaster and 3 coats of white or colour wash as directed by Engineer in charge etc. complete.	100	Nos	2838	283800.00	3121.8	312180
1.61	providing and fixing RCC CHAMBER COVER 900*450 size capacity 10MT /Sqm as per instruction by engineer incharge	30	Nos	17500	525000.00	19250	577500
1.62	Compacting the hard murum side widths including laying in layers on each side with power roller including artificial watering etc. complete.	27060.00	Sqm	50	1353000.00	55	1488300
1.63	Providing and laying wedge shear elemental layer (WSEL) by using rubble stone of size 15 to 20 cm thick in single layer of 230 mm including packing the same with 20 mm to 40 mm thick aggregates (normal size) and using stone powder of 40 mm to 50 mm thick on surface and watering & compacting by vibratory roller confirming layer thickness of minimum 200 mm and as directed by Engineer - in - charge etc complete.	2706.00	Cum	4000	10824000.00	4400	11906400
1.64	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting with Intelligent Compactor with compaction analyzer and VSat attachment to the required density. By Manual Means Grading II (Using Screening Type B (11.2 mm) Aggregate)	676.50	Cum	6500	4397250.00	7150	4836975
1.65	Providing and Laying M60 grade cement concrete of approved mix design with avg. Flexural strength of 4.4 MPa in 3 days from R.M.C. plant incld. use of micro silica/alcofine, approved make super plastiser and retarder, fibrillated 100 % virgin polypropylene fibres, fly ash and transported by transit mixer and placing at work site. Compacting, finishing, initial curing by approved curing compound/ contractors water and tarring the sides of slab with hot bitumen as specified and as directed (w/c ratio 0.28 max.). (vatta for curing will be paid separately) for Ultra thin White Topping (UTWT) pavement. etc completed	677.00	Cum	18500	12524500.00	26950	18245150
1.66	Green Cutting of construction & dummy joints of concrete grade M 40 and above (UTWT) pavement by mechanical means within 10 to 12 hrs after casting of bay / slab upto 1/3 rd depth of pavement and 5 to 6 mm wide as directed	19000.00	Rmt	160	3040000.00	176	3344000

1.67	Providing and Placing 5mm thick Thermocole in dummy and construction joints immdly after cutting of joints and removing the same before dressing of dummy and construction joint as directed	19000.00	Rmt	90	1710000.00	99	1881000
1.68	Providing and construction of cement vatta in C.M.I. 10 at 0.6 M X 0.6 M c/c admeasuring 0.09 meter at bottom, 0.04 m at top and 0.075 m deep and maintaining the same throughout 7 days curing period and removing the same material as directed.	4510.00	Sqm	104	469040.00	114.4	515944
1.69	Sealing of M-35 & above new C.C. pavement dummy, transverse, longitudinal joints with hot rubberised sealing compound conforming to IS 1834-1984 after proper cleaning with compressed air, applying required primer & providing a layer of lime powder over hot sealing compound as directed. Sealing 5mm - 6 mm wide & avg. depth of 40 mm transverse & longitudinal joints	19000.00	Rmt	101	1919000.00	111.1	2110900
1.7	Providing and laying of hot applied thermoplastic compound 2.5mm thick. White /Yellow including reflectorising glass beads @250 gms per sqm area,thickness of 2.5mm is exclusive of surface applied glass bead as per IRC 35. The finished surface to be level, uniform and free from streaks and holes etc complete with 3 years guarantee	50.00	Sqm	1049	52450.00	1153.9	57695
1.71	Providing and fixing Speed Breakers of Size 350 W x 500 L x 50 H mm yellow black color as shown in the drawing with necessary fittings & fixtures as directed by EIC.	50	Rmt	5083	254150.00	5591.3	279565
1.72	Supplying and Fixing of Molded Shank Raised Pavement Markers / Cat's Eye made of polycarbonate and ABS moulded body and reflective panels with micropismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to ASTM D4280 Type Hand complying to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97DORR Dt 11.06.1997. The height, width and length shall not exceed 50mm, 100mm and 102+/-2 mm and with minimum reflective area of 13 Sqcm one ach side and the slope to the base shall be 35+/-5 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19+/-2mm and height not less than 30+/-2mm) from the body is to be a minimum value of 500Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer. The contractor shall submit a two year warranty for satisfactory field performance including stipulated retro-reflectance of the reflecting panel, to the Engineer.	50	Nos	1176	58800.00	1293.6	64680
1.73	Design, supply & installation of 4 mm thick Aluminium Composite Panels (ACP) of Alcopla make or other equivalent approved make. material consisting of 3mm thick FR grade mineral core sandwiched between two aluminium sheets (each 0.5 mm thick). The fixing will be done fabrication comparious Durol or other equivalent company Backup MS GJ frame work, & aluminium frame along with backer rod, Dow corning Silicon sealant etc complete as directed by the engineer. The rates should include provide design alongwith shop drawings and getting approval from consultant.ACP CLADDING	6034	Sqm	12600	76028400.00	13860	83631240
1.74	Fire Sealant For Pipe And Duct Holes And Any Other. Supplying, Loading, Unloading,	10	Cum	18828	188280.00	20710.8	207108

	Installations, Testing, Commissioning of fire resistant mortar (20 kg) with fire resistance class S90 as per National Electrical Code (NEC) SP30-2011 suitable to seal the openings with all kinds of cables, pipes and cable support system in steel and aluminium and plastic profiles (Except hollow core conductors). The residual openings shall be closed with filler, as Directed by Engineer Incharge.						
1.75	Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5 mm thickness in Global white color tile to be laid on grid systems with 15mm wide T - section flanges color white having rotary stitching on the Main Runner, 1200 mm and 600 mm Cross Tees. Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5 mm thickness in Global white color tile to be laid on grid systems with 15mm wide T - section flanges color white having rotary stitching on the Main Runner, 1200 mm and 600 mm Cross Tees products approved as per GRHA and BS 476 etc. complete.	149	Sqm	4000	596000.00	4400	655600
1.76	Providing & Fixing Slidding window systems are manufactured from Rigid Thermo Vinyl Polymer (RTVP) Profiles suitable for tropical development. The profile are with multichambered construction. The nominal thickness of outer wall is 2 MM. The outer frame size is 105 x 52 mm. Roller shutter frame 60 x 27 mm & Handle shutter frame 52 x 30mm. Glass panels used in window system shall be of 6mm thick clear float glass manufactured by Modiguard/Saint Gobin/Asahi or any other approved equivalent. The window systems are prefabricated in factory. All the corners of outer frame & shutter are fusion welded under pressure to a pre-determined temp. & time as per the specification & design. The structural reinforcement chambers are not exposed to any drainage routing. The steel reinforcements are 1.5mm thk hot dip galvanised & passivated for corrosion resistance & tropical development. Slidding track is made of UPVC profile, which is the part of outer frame for smooth movement of shutter. Sliding roller assembly consist of Nylon Roller & Zinc Alloy casting body. Mosquito frame is part of the slidding outer frame. Gaskets are made of Ethylene Propylene Dienermer (EPDM) which has good wheathbering properties & resistance to tear & decay to OZONE & U.V exposure as per manufacturers specification as directed by Engineer in Charge etc. complete as Directed by Engineer Incharge.	19	Sqm	14000	266000.00	15400	292600
1.77	Providing and fixing SS Mosquito mesh in anodised (anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodising must be scaled by keeping the anodized section in boiling de-anodized water for a period of one hour) aluminium shutter fixed in sliding / openable / fixed windows conforming to IS:1948-1961 as per drawing and directed by Engineer In Charge. (Note: For Aluminium Sections, total weight shall be upto 3.5 kg/sq.m.)	8	SQM	2600	20800.00	2860	22880
1.78	SITC of Elevio Automatic Elevator with: Rated capacity :- 20 Passenger/1360Kg Floors :- G+1 floor (2Stops/2 Landings) Travel :- 4.5 mtrs Location of Lift Machine:- MRL Rated speed :- 1.0mps VS Car/Landing door clear opening of 1000 mm wide x 2000 mm high	1	Job	4500000	4500000.00	4950000	4950000

	- Clear Car size of 2000mm wide x 1550mm deep x 2200mm high - Lift shaft available having clear size of 2940mm wide x 3440mm deep, 1550mm Pit depth, 4250mm Overhead -CAR DOOR of Two Panel center opening auto door material- SS304 Stainless Steel in Hairline Finish [SSHL]. FLOORING-SS Chequered Plate False Ceiling-Stainless Steel LIGHT & FAN-LED Light & Axial Flow Fan. C.O.P-Illuminated Buttons with Colour LCD Display for Direction & Position Indicator. MAIN POWER SYSTEM-415 Volts, 3Phase, 50Hz A.C AUXILIARY SUPPLY SYSTEM-220/230 Volts, Single Phase, 50Hz A.C OPERATION-Simplex Full Collective System without attendant REQUIRED DRIVE-ACVVVF Advantages of CANBUS Controller, Three way Intercom, Car Ventilation, Battery Operated Emergency Alarm Bell & Light, Firemans Switch at main lobby, Overload Warning Indicator, Automatic Rescue Device (ARD), Full Curtain Infrared Door Safety, Machine Beam (ISMB), Floor Announcement System with Soft Music, Anti-nuisance, Car call Cancellation, Full Load Automatic Bypass, Direct Landing, Anti-stall timer Protection, Start Protection Control, Automatic power Light & Fan off including required scaffolding & structural steel braces for erecting lift as per above specification obtaining required all necessary permissions of Lift inspector (PWD) to erect and complete the elevator work, Lisons to operate the elevators including all necessary charges, payments for the same etc complete.						
1.79	SITC of Elevio Automatic Elevator with Rated capacity :- 20 Passenger/1360Kg Floors :- G+2 floor (3Stops/3 Landings) Travel :- 4.5 mtrs Location of Lift Machine :- MRL. Rated speed :- 1.0mps VS Car/Landing door clear opening of 1000 mm wide x 2000 mm high Clear Car size of 2000mm wide x 1550mm deep x 2200mm high Lift shaft available having clear size of 2940mm wide x 3440mm deep, 1550mm Pit depth, 4250mm Overhead -CAR DOOR of Two Panel center opening auto door material- SS304 Stainless Steel in Hairline Finish [SSHL]. FLOORING-SS Chequered Plate False Ceiling-Stainless Steel LIGHT & FAN-LED Light & Axial Flow Fan. C.O.P-Illuminated Buttons with Colour LCD Display for Direction & Position Indicator. MAIN POWER SYSTEM-415 Volts, 3Phase, 50Hz A.C AUXILIARY SUPPLY SYSTEM-220/230 Volts, Single Phase, 50Hz A.C OPERATION-Simplex Full Collective System without attendant REQUIRED DRIVE-ACVVVF Advantages of CANBUS Controller, Three way Intercom, Car Ventilation, Battery Operated Emergency Alarm Bell & Light, Firemans Switch at main lobby, Overload Warning Indicator, Automatic Rescue Device (ARD), Full Curtain Infrared Door Safety, Machine Beam (ISMB), Floor Announcement System with Soft Music, Anti-nuisance, Car call Cancellation, Full Load Automatic Bypass, Direct Landing, Anti-stall timer Protection, Start Protection Control, Automatic power Light & Fan off including required scaffolding & structural steel braces for erecting lift as per above specification obtaining required all necessary permissions of Lift inspector (PWD) to erect and complete the elevator	1	Job	4750000	4750000.00	5225000	5225000

	work, Lisons to operate the elevators including all necessary charges, payments for the same etc complete.						
1.8	Providing & fixing European type white glazed earthenware water closet of perryware, Hindware or equivalent MAKE, wall hung closet to be used with cistern as per Model No. 89334 with size (H X W X P) 51cm x 35cm x 76cm pan including 'P' or 'S' trap with white bakelite including C.I. soil & vent pipes upto the outside Market Ratece of the wall and 100 mm dia. C.I. Plug bend, and flush bend and inlet pipe with brackets for fixing the cistern 40 mm dia. G.I. overflow pipe, painting of the exposed pipes and cutting and making good and floors as directed by architect & Engineer-In-Charge etc complete	21	Nos	23753	498813.00	26128.3	548694.3
1.81	Providing and fixing C.P. Two way Bib cock parryware make or equivalent Quattro collection (CAT.NO. T2334A1) including necessary sockets/union nut etc. complete.	26	Nos	3729	96954.00	4101.9	106649.4
1.82	Providing and fixing C.P. Auto Closing concealed urinal flush valve parryware make or equivalent lapis collection (CAT.NO. G2030A1) including necessary sockets/union nut etc. complete.	13	Nos	2973	38649.00	3270.3	42513.9
1.83	Providing and fixing C.P. Auto Closing concealed WC Dual flush valve parryware make or equivalent (CAT.NO. T3305A1/T3307A1) including necessary sockets/union nut etc. complete.	26	Nos	5509	143234.00	6059.9	157557.4
1.84	Providing and fixing 15 mm diameter PVC Aqua kraft type parryware make or equivalent make super jet spray with flange 2 in 1 faucet 1.50 metre long including all accessories etc complete	26	Nos	1781	46306.00	1959.1	50936.6
1.85	Providing & Fixing 46 x 30cm. Size of white glazed vitreous chinaware Square shape wash Basin of perryware, Hardware or equivalent MAKE, Model No. 895V wash basin Square overcounter including cold water concealed pillar taps, brackets, rubber plugs and brass chain, stop tap, chromium plate bottle trap and necessary pipe connections including UPAC waste pipe and trap upto the outside face of the wall, painted with two coats of white enamel paint over a coat of white enamel primer, 32mm dia. PVC inlet connection etc. complete (32 mm dia. G.I. waste pipe is measured and will be paid separately) Rate to include making necessary connection to Nahani trap / waste as directed by architect & Engineer-In-Charge etc complete	22	Nos	17104	376288.00	18814.4	413916.8
1.86	Providing and fixing white vitreous urinal basin of perryware, Hindware or equivalent MAKE , Series whiz Model No. 0580 with standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required as directed by architect & Engineer-In-Charge etc complete	13	Nos	25000	325000.00	12289.2	159759.6
1.87	Providing and fixing C.P. wall mixer with provision for overhead shower with 115mm long bend pipe and wall flange jaquar or equivalent make continental (CAT NO. T2316A1) including necessary sockets/union nut etc. complete.	1	Nos	25000	25000.00	12866.7	12866.7
1.88	Providing and fixing SS 304 Towel rail (24") perryware, hindware or equivalent make including all fitting etc completed	1	Nos	1700	1700.00	1494.9	1494.9
1.89	Providing and fixing SS 304 Soap dish perryware, hindware or equivalent make including all fitting etc completed	3	Nos	1089	3267.00	1197.9	3593.7

1.9	Providing and fixing SS 304 Toilet paper holder perryware, hindware or equivalent make including all fitting etc completed	26	Non	2500	65000.00	1818.3	47275.8
1.91	Providing and fixing SS 304 Towel ring perryware, hindware or equivalent make including all fitting etc completed	26	Non	1250	32500.00	1057.1	27484.6
1.92	Providing and fixing SS 304 Twin robe hook perryware, hindware or equivalent make including all fitting etc completed	26	Non	1250	32500.00	649	16874
1.93	Providing and fixing SS 304 Soap dispenser perryware, hindware or equivalent make including all fitting etc completed	22	Non	2500	55000.00	2241.8	49319.6
1.94	Providing & fixing of HM-MCP Call Point are an addressable manual break glass call point, simple rotary decade, switch at the rear of the unit for addressing, analogue addressable communications, Integral LED, EN54 approved. Make :- Honeywell Morley Model No. :- HM-MCP-FLEX	4	NOS	6803	27212.00	7483.3	29933.2
1.95	Providing & fixing of The Wall Mount sounder strobe integrates a 32 tone sounder and high quality strobe into one device. It is powered by the fire panel via the loop wiring. Control of the device is enabled using on-board switches, some of which can also be adjusted through SS Advanced Protocol. The device is installed simply by a twist fit onto the B501AP base. Supply Voltage: 15 to 29VDC (Non-isolation) 15 to 29VDC (Isolation) Standby Current: 120µA (Non-Isolation) 225µA (Isolation) Max current consumption sounder and strobe: 14.5mA (High Volume Tone 11 @15V) Max Sound Output 97dB(A) +/-3dB @1 metre (High Volume, Tone 8 @24V) [Tone Dependant - Figure stated is based on high volume 970Hz continuous @24VDC] Make :- Honeywell Morley Model No. :- WSO-PR	7	NOS	10205	71435.00	11225.5	78578.5
1.96	Providing & fixing of addressable four-loop, fire detection system supports Morley protocol. It comes with two sounder circuits (1A max), a 2A power source, a general relay (Alarm and Fault), one programmable relay, a fixed auxiliary output and resettable 24V 250mA output, two keys and two inputs for programmable functions. It also includes a 6" x 40" LCD graphic display, an integrated USB port for PC programming and an RS485 port for repeaters. Total Loop Capacity (396 Detector + 396 Devices) Networking up to 16 loops 6x40 characters, blue liquid crystal display with backlight illumination Configuration by keypad and PC 160 Fire Zones Fire, Fault and Auxiliary relays Loop-Battery calculator for reliable system design 7 day timer Onboard diagnostic EN54-2, EN54-4 LPCB approved Optional: 40, 80 or 160 zone alarm LEDs Make :- Honeywell Morley Model No. :- DX4C	1	NOS	417094	417094.00	458803.4	458803.4
1.97	SITC of 1100 V grade XLPE insulated sheathed & steel armoured copper Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required,	850	RM	211	179350.00	232.1	197285

	(M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 2 C X 1.5 Sq. mm. A X F Y XLPE.						
1.98	Providing & fixing of HM Series Advanced Intelligent Thermal Sensors are plug-in type fire sensors that use a single thermistor sensing circuit to provide early warning of developing fires, together with addressable communication with the fire panel. The HM-RHSE, HM-RHSE-I provides fixed 58°C and rate-of-rise (10°C / minute) temperature sensing (Class A1R). The HM-FHSE, HM-FHSE-I provides fixed 58°C temperature sensing (Class A1S). 15 to 32Vdc260µA at 24Vdc (no communications) 310µA at 24Vdc (LED blink enabled, once every 5s)3.5mA at 24VdcREMOTE OUTPUT VOLTAGEREMOTE OUTPUT CURRENTADDITIONAL LOOP RESISTANCE USING THE B501AP22.5Vdc @ 24Vdc 10.8mA @ 24Vdctyp 20mohm (max 30 mohm) Make :- Honeywell Morley Model No. :- HM-RHSE.	5	NOS	6803	34015.00	7483.3	37416.5
1.99	Providing & fixing of addressable control modules for third party integrations, DIN rail mounting option • Surface mounting option • Tri-colour LED status indication • Built-in Short Circuit Isolators • Visible Address selector switches • LED status visible in 2 planes • Plug in connectors • Approved to GEA GEI 1-082 and CEA GEI 1-084 Mechanical Specifications Dimensions (H x W x D) 93 x 94 x 23 (mm) Weight Operating Temperature 110g -20 °C to +60 °C Part Numbers MI-DCMO Single channel addressable output module Electrical Specifications Operating voltage 15 to 30 Vdc Standby current No comms 1 comms every 5 seconds with LED blink 310µA at 24 Vdc maximum 510µA at 24 Vdc maximum Terminal Wire 2.5 mm2 maximum © 2020 Honeywell International Inc. For more information, https://honeywellbuildings.in Call: 1-800-103-0339 Email: HBT-India@honeywell.com Honeywell HBT India Buildings Unitech Trade Center, 5th Floor, Sector-43, Block C, Sushant Lok Phase - I, Gurgaon - 122 002 www.honeywell.com MI-DCMO ADDRESSABLE CONTROL OUTPUT MODULE Relative Humidity 0 to 95% maximum non-condensing Relay Form C Unsupervised Supervised 2A at 30 Vdc, resistive load 1.5A at 30 Vdc, resistive load Make :- Honeywell Morley Model No. :- MI-DCMO	34	NOS	5216	177344.00	5737.6	195078.4

2	Providing & fixing of input control module for third party integration, Single or dual inputs • DIN rail mounting option • Surface mounting option • Tri-colour LED status indication • Built-in short circuit isolators • Visible address selector switches • LED status visible in 2 planes • Plug in connectors • Approved to GEA GEI 1-082 and CEA GEI 1-08, Operating voltage 15 to 30 Vdc, standby current MI-DMMI 1 comms every 5 seconds with LED blink 510µA at 24 Vdc maximum No comms 310µA at 24 Vdc maximum Output Rating 5A at 30 Vdc, resistive load, 5A at 240 Vac, resistive load. Make :- Honeywell Morley Model No. :- MI-DMMI	14	NOS	5216	73024.00	5737.6	80326.4
2.01	Providing & fixing of loop powered fault isolator module for short circuit protection, DIN rail mounting option• Surface mounting option• Plug in connectors• Tri-colour LED status indication• Address selector switches visible in 2 planes• LED status visible in 2 planes• Approved to GEA GEI 1-082 and CEA GEI 1-08Operating voltageStandby current15 to 30 Vdc200µA at 24 Vdc maximumFault detection delay 100 to 400 mSOn resistance 0.065Ω at 15 Vdc maximum© 2020 Honeywell International Inc For more information, https://honeywellbuildings.in/Cal E: 1-800-103-0339Email: HBT-Indiabuildings@honeywell.comHoneywell HBT India BuildingsUnitech Trade Center, 5th Floor, Sector-43, Block C, Sushant Lok Phase - I, Gurgaon - 122 002www.honeywell.comMI-DISOISOLATOR MODULES Part NumbersMI-DISO Addressable Isolator ModuleTerminal Wire 2.5 mm2 maximum Make :- Honeywell Model No. :- MI-DISO	20	NOS	4762	95240.00	5238.2	104764
2.02	Providing & fixing of addressable optical smoke detectors, HM-PSE, HM-PSE-S2 has two integral red LEDs that provide 360° local visual indication of the device status.ELECTRICAL SPECIFICATIONS - NON-ISOLATED PRODUCT (HM-PSE-S2) HEIGHT OPERATING VOLTAGE RANGE MAXIMUM STANDBY CURRENT 52mm installed in B501AP base 260µA at 24Vdc (no communications) / 310µA at 24Vdc (LED blink enabled, once every 5s) 260µA at 24Vdc (no communications) 310µA at 24Vdc (LED blink enabled, once every 5s) LED CURRENT REMOTE OUTPUT VOLTAGE REMOTE OUTPUT CURRENT 3.5mA at 24V 22.5Vdc @ 24Vdc 10.8mA @ 24Vdc ADDITIONAL LOOP RESISTANCE USING THE B501AP typ 20mohm (max 30 mohm) ELECTRICAL SPECIFICATIONS - ISOLATOR VERSION (ONLY FOUND IN HM-PSE-S2-I) OPERATING VOLTAGE RANGE MAXIMUM STANDBY CURRENT ISOLATION CURRENT 15 to 28Vdc 200µA at 24Vdc (no communications)	137	NOS	5216	714592.00	5737.6	786051.2

	300µA at 24Vdc (LED blink enabled, once every 5s) 15mA at 24Vdc MAXIMUM CONTINUOUS CURRENT REMOTE OUTPUT VOLTAGE ADDITIONAL LOOP RESISTANCE 1A (Switch Closed) 22.5Vdc @ 24Vdc typ 80 mohm @24V (max 170mohm @ 15V) ADDITIONAL LOOP RESISTANCE USING THE B501AP typ 20mohm (max 30 mohm)						
2.03	Providing & fixing of addressable optical smoke detectors, HM-PSE, HM-PSE-S2 has two integral red LEDs that provide 360° local visual indication of the device status ELECTRICAL SPECIFICATIONS - NON-ISOLATED PRODUCT (HM-PSE-S2) HEIGHT OPERATING VOLTAGE RANGE MAXIMUM STANDBY CURRENT 52mm installed in B501AP base 260µA at 24Vdc (no communications) 310µA at 24Vdc (LED blink enabled, once every 5s) 260µA at 24Vdc (no communications) 310µA at 24Vdc (LED blink enabled, once every 5s) LED CURRENT REMOTE OUTPUT VOLTAGE REMOTE OUTPUT CURRENT 3.5mA at 24Vdc 22.5Vdc @ 24Vdc 10.8mA @ 24Vdc ADDITIONAL LOOP RESISTANCE USING THE B501AP typ 20mohm (max 30 mohm) ELECTRICAL SPECIFICATIONS - ISOLATOR VERSION (ONLY FOUND IN HM-PSE-S2) HEIGHT OPERATING VOLTAGE RANGE MAXIMUM STANDBY CURRENT ISOLATION CURRENT 15 to 28Vdc 200µA at 24Vdc (no communications) 300µA at 24Vdc (LED blink enabled, once every 5s) 15mA at 24Vdc MAXIMUM CONTINUOUS CURRENT REMOTE OUTPUT VOLTAGE ADDITIONAL LOOP RESISTANCE 1A (Switch Closed) 22.5Vdc @ 24Vdc typ 80 mohm @24V (max 170mohm @ 15V) ADDITIONAL LOOP RESISTANCE USING THE B501AP typ 20mohm (max 30 mohm)	34	NOS	5670	192780.00	6237	212058
2.04	Providing & fixing of Two-Way Inlet Breeching, Body: Gun Metal or Aluminum Alloy or Cast Iron Inlet: Two Instantaneous with NRV, Outlet: 4" Flanged, Working Pressure: 10 Bar, Test Pressure: 23 Bar Make :- Newage	1	Nos.	18595	18595.00	20454.5	20454.5
2.05	Providing & fixing of following sizes of pipes conforming to IS-1239 with all accessories GI class 'C' heavy grade MS fitting with welded joint shall be used] including tees, elbows, reducers, union, flanges, rubber gaskets, GI nuts, bolts, washer including supporting/fixing the pipe on wall /ceiling with clamps, hangers (using anchor fasteners) as per specification.	38	Rmt.	3091	117458.00	3400.1	129203.8
2.06	Providing protection to embedded MS/ GI pipes and fittings by applying protective primer (@ 100 gm/sqm) thereafter wrapping 4 mm thick protection coating by thermo fusion process. Overlap shall be maintained at 15 mm. The application process shall be strictly according to manufacturer's specification.	28	Rmt.	644	18032.00	708.4	19835.2
2.07	Providing & fixing of High Power Amplifier high efficient Power/Booster amplifier provides audio signal amplification for public address and voice alarm system, It is reliable, efficient and light in weight 180-250 Volts AC 50 Hz Mains power supply 0.1% THD < N @ 1 KHz Unbalanced Line in - Line Out, 100 V signal	1	Nos.	154516	154516.00	169967.6	169967.6

	input Signal input / Output Class D >90% efficiency Amplifier topology 70 Hz to 20 KHz Frequency response 102 SNR (dB) Make - Honeywell						
2.08	Proving & fixing of HN-CL06 has two spring clamps which can be used to easily fix the speaker into the false ceiling. It has three power taps (6/3/1.5W) with the built in 100V transformer. The round metal grille is well fitted in the front Make :- Honeywell Model No:- HN-CL06	86	Nos	4366	375476.00	4802.6	413023.6
2.09	Supplying, erecting, testing and commissioning of multistrand Sheilded bare copper conductor, transparent PVC insulated 2C x 1 sqmm speaker wire in provided trunking/conduit etc. as directed by Engineer in charge etc completed Blue colour	4500	RM	168	756000.00	184.8	831600
2.1	8 Zone Voice Alarm controller with built-in USB, MP3, AM/FM player, SD Card and 8 zone paging station, interface between field devices such as loudspeakers and local audio sources. EVACPRO-G2 is a cost effective solution for requirements less than 16 loudspeaker circuits(zones). The unit has 16 emergency inputs (15 Zone wise & 1 for all zones) and 16 loudspeaker circuits (zones). The unit also can store and play prerecorded emergency messages to alert or evacuate the fire zones, 340 X 577 X 250 mm Dimension (W x H x D) 300mv Line Input 4 Pin DIN Condenser type with N/C contact Microphone Input Balanced and unbalanced through phoenix connector - 1 2 V Line Output 20Hz to 20 KHz Frequency Response 0.01% Total Harmonic Distortion (THD)	1	Nos	224494	224494.00	246943.4	246943.4
2.11	SITC 4U 600 x 600 perforated wall mounted racks with shelf, front glass door, Power strip. as directed by Engineer in charge etc completed	2	NOS	9524	19048.00	10476.4	20952.8
2.12	Providing & fixing of 1 Port- 10 Gig Module for Staking incls. Of required card, standard accessories & Hardware. * Make :- D-Link	2	NOS	31747	63494.00	34921.7	69843.4
2.13	SITC 6 Core single mode fiber optic cable with 25MM PVC conduit as directed by Engineer in charge etc completed	200	RMT	279	55800.00	306.9	61380
2.14	SITC 6 Port wall mounted fully loaded LIU with SC coupling as directed by Engineer in charge etc completed	1	NOS	14343	14343.00	15777.3	15777.3
2.15	Supplying, erecting & terminating 10 m HDMI cord low voltage grade minimum 4k compliant to be laid in provided conduits with male/female 19pin HDMI connectors complete	1	NOS	18147	18147.00	19961.7	19961.7
2.16	Supplying & erecting 4 TB internal Surveillance HDD suitable for SATA Port of NVR, interface transfer rate 6 GB/S, Maximum sustained transfer rate 150MB/Sec to 180MB/S. Drive bay supported 08+, Cameras supported up to 64, Cache (MB) 64, Load/Unload Cycle - 3000000, Work Load Rating per Year 180TB, MTBF 1000000 Hrs. HTTPS, RoHS, UL, CE certified, duly erected in position in provided NVR	2	NOS	48250	96500.00	53075	106150
2.17	Proving & fixing of 12 -FIBER PORT SC-STYLE, SM, 19" RACK MOUNT LIU, LOADED WITH ADAPTER PLATE	1	NOS	19692	19692.00	21661.2	21661.2
2.18	Providing & Fixing of non intelligent Power distribution unit with 6 indian standar sockets (6/15Amp), 16A modular MCB, surge & over voltage protection, Fuse protection, 3 Mtr. Long power cable, Black in colour	2	NOS	19710	39420.00	21681	43362

2.19	Providing & fixing of 90(550W X 5000 D)MM FLOOR FLOOR MOUNT CLOSED RACK WITH VERTICAL CABLE MANAGEMENT FOR CABLE, FRONT GLASS DOOR, REAR PERFORATED DOOR WITH STANDARD ACCESSORIES & 2 NOS. VERTICAL POWER STRIP.	3	NOS	35961	107883.00	39557.1	118671.3
2.2	Supplying and installing FR PVC sheathed HDPE insulated copper cat-6 cable suitable for networking compliant with ANSI/TIA-568.2-D standards in provided conduit/casing-n-capping	4660	RM	214	997240.00	235.4	1096964
2.21	Supplying and fixing 1 m 24 AWG multi stranded UTP patch cord with RJ-45 factory crimped connector of Cat 6 type, compliant ANSI/TIA-568.2-D standards in position	1	NOS	909	909.00	999.9	999.9
2.22	Supplying and erecting 12 fibers LSZH armoured multimode optical fiber cable with , core dia 50/125 µm (OM3), suitable upto 10 GBPS, compliant to IEC 60793/IEC 60794 standards, on wall/ceiling or laid in provided pipe/trench	10	RM	1181	11810.00	1299.1	12991
2.23	Supplying and fixing SC/SC type multimode pigtails (OM3) for LIU to terminate OFC in LIU	1	NOS	3187	3187.00	3505.7	3505.7
2.24	Supply, Installation, Testing & Commissioning of Under deck Insulation Underdeck Insulation With 19MM Thick Thermal nitril rubber with 36G Aluminium Foil	1092	Sqm	1400	1528800.00	1540	1681680
2.25	Providing and fixing trap door in the Gypsum board / POP ceiling system for electrical and mechanical utilities with 18mm thk. plywood shutter and 12mm thk. teak wood lipping all around including wooden / G.I. frame with supports, fixtures, fastenings etc. complete as directed.	180	Sqm	7559	1360620.00	8314.9	1496682
2.26	Providing and fixing aluminium powder coated trap door as per required size for AHU unit as per manufacture details specifications etc complete.	117	Sqm	12094	1414998.00	13303.4	1556497.8
2.27	Supply / Installation / Testing / commissioning Ceiling Suspended Cabinet type Fresh Air Fans & Casing, drive, motor, Filter, mounting frame, starter, isolator & Necessary cabling & earthing strip For Following Capacities :As per AMCA210 standard "Laboratory Methods of testing fans for rating" Balancing quality - As per AMCA204 / ISO 1940 standard Supply, Installation, Testing & Commissioning of 1550CFM Cabinet Type	1	Nos	35310	35310.00	38841	38841
2.28	Supply / Installation / Testing / commissioning Ceiling Suspended Cabinet type Fresh Air Fans & Casing, drive, motor, Filter, mounting frame, starter, isolator & Necessary cabling & earthing strip For Following Capacities :As per AMCA210 standard "Laboratory Methods of testing fans for rating" Balancing quality - As per AMCA204 / ISO 1940 standard Supply, Installation, Testing & Commissioning of 1650 CFM Cabinet Type Inline Fan	1	Nos	35310	35310.00	38841	38841
2.29	Supply / Installation / Testing / commissioning Ceiling Suspended Cabinet type Fresh Air Fans & Casing, drive, motor, Filter, mounting frame, starter, isolator & Necessary cabling & earthing strip For Following Capacities :As per AMCA210 standard "Laboratory Methods of testing fans for rating" Balancing quality - As per AMCA204 / ISO 1940 standard Supply, Installation, Testing & Commissioning of 2100 CFM Cabinet Type Inline Fan	1	Nos	51184	51184.00	56302.4	56302.4
2.3	Supply, Installation, Testing & Commissioning of Freshair Axial fan For Lobby & other HVAC system Ventilation Unit With DIDW Fresh Air Fans & Casing.	1	Nos	81899	81899.00	90088.9	90088.9

	Supply, Installation, Testing & Commissioning of 4900 CFM						
2.31	Supplying, installing, testing and commissioning of INLINE / PROPELLER FANS suitable for installing in any position in vertical or horizontal ducts. The casing shall be double skin, internally acoustically lined and constructed of galvanised steel. The fan shall be DIDW with forward curve impeller fitted with maintenance free external rotor motor. The motor shall be suitable for 220±10% volt single phase 50 cycles AC supply. All units shall be complete with duct flexible connector and volume control damper. 800CFM	2	Nos	25625	51250.00	28187.5	56375
2.32	Supply, Installation, Testing & Commissioning of Exhaust Axial fan For Kitchen Ventilation Unit With DIDW Fresh Air Fans & Casing. Supply, Installation, Testing & Commissioning of 8900 CFM	1	Nos	109111	109111.00	120022.1	120022.1
2.33	Supply, Installation, Testing & Commissioning of Freshair Axial fan For Kitchen Ventilation Unit With DIDW Fresh Air Fans & Casing. Supply, Installation, Testing & Commissioning of 7000 CFM	1	Nos	99556	99556.00	109511.6	109511.6
2.34	Supply / Installation / Testing / BRICATED rectangular sheet metal ducts, as per specifications detailed in tender, made of Class VIII GI sheet as per SMACNA Standard for medium pressure air flow with MS angle / TDF flanges, supports, anchor fasteners, food grade gaskets and RTV sealant in accordance with the approved shop drawings. It is mandatory to use factory fabricated ducts for minimum 85% of the ducting system. Use of Site fabricated ducts should be restricted to only 'to suit' pieces. Cold rolled sheets continuous galvanized sheet steel with zinc coating as per class VIII confirming to IS:277-1962 (revised) (where ever specified) of LFQ (Lock Forming Quality) grade. Galvanizing shall be of 120gms/sq. m (Total coating on both sides) The fabrication of the ducting system for air-conditioning & Ventilation shall confirm to SMACNA-1995 standards ("HVAC Duct Construction Standards - Metal and Flexible - Second Edition - 1995" - SMACNA) Supply, Installation, Testing & Commissioning of G.I. ducting 22 G	445	Sqm	2041	908245.00	2245.1	999069.5
2.35	Grills & Diffusers : Supply, installation, testing and commissioning of extruded aluminium powder coated linear 4" Grilles for Supply / Return grill without volume control dampers.	50	Sqm	11064	553200.00	12170.4	608520
2.36	Supply, installation, testing and commissioning of extruded aluminium powder coated linear 6" Grilles for Supply / Return grill without volume control dampers.	100	Sqm	12366	1236600.00	13602.6	1360260
2.37	Supply, installation, testing and commissioning of extruded aluminium powder coated linear 8" Grilles for Supply / Return grill without volume control dampers.	50	Sqm	13667	683350.00	15033.7	751685
2.38	Supply, installation, testing and commissioning of Powder Coated Extruded Aluminium 1 slot diffuser Of Required Airflow Angles With Out VCD.	30	Rmt	1628	48840.00	1790.8	53724
2.39	Supply, installation, testing and commissioning of Powder Coated Extruded Aluminium 2 slot diffuser Of Required Airflow Angles With Out VCD.	30	Rmt	2343	70290.00	2577.3	77319
2.4	Supply, installation, testing and commissioning of Powder Coated Extruded Aluminium 3 slot diffuser Of Required Airflow Angles With Out VCD.	30	Rmt	2864	85920.00	3150.4	94512
2.41	Supply / Installation / Testing / commissioning Of Fresh Air & Exhaust Air GI Duct Dampers with bird screen & Cowl Piece	30	Sq.M.	11518	345540.00	12669.8	380094

2.42	Supply, installation, testing and commissioning of G.I. Dampers	30	Sq.M.	11064	331920.00	12170.4	365142
2.43	Supply & Installation of the PVC Drain Piping complete with fittings, supports and insulated with 9 mm thick Nitrile Rubber Insulation 25 mm Dia/ or equivalent / as Directed by Engineer Incharge.	75	Rmt	558	41850.00	613.8	46035
2.44	Supply & Installation of the PVC Drain Piping complete with fittings, supports and insulated with 9 mm thick Nitrile Rubber Insulation 32 mm Dia/ or equivalent / as Directed by Engineer Incharge.	276	Rmt	728	200928.00	800.8	221020.8
2.45	Supply & Installation of the PVC Drain Piping complete with fittings, supports and insulated with 9 mm thick Nitrile Rubber Insulation 40 mm Dia/ or equivalent / as Directed by Engineer Incharge.	150	Rmt	761	114150.00	837.1	125565
2.46	Supply & Installation of the PVC Drain Piping complete with fittings, supports and insulated with 9 mm thick Nitrile Rubber Insulation 50 mm Dia/ or equivalent / as Directed by Engineer Incharge.	224	Rmt	793	177632.00	872.3	195395.2
2.47	Supplying and erecting elastomeric nitrile rubber tube type sleeves for coating and insulating on provided copper pipes having 13 mm thickness and inner diameter / sizes 6.4 mm for AC system	115	Rmt	318	36570.00	349.8	40227
2.48	Supplying and erecting elastomeric nitrile rubber tube type sleeves for coating and insulating on provided copper pipes having 13 mm thickness and inner diameter / sizes 9.5 mm for AC system	1624	Rmt	348	565152.00	382.8	621667.2
2.49	Supplying and erecting elastomeric nitrile rubber tube type sleeves for coating and insulating on provided copper pipes having 13 mm thickness and inner diameter / sizes 12.7 mm for AC system	115	Rmt	378	43470.00	415.8	47817
2.5	Supplying and erecting elastomeric nitrile rubber tube type sleeves for coating and insulating on provided copper pipes having 13 mm thickness and inner diameter / sizes 15.9 mm for AC system	2811	Rmt	409	1149699.00	449.9	1264668.9
2.51	Supplying and erecting elastomeric nitrile rubber tube type sleeves for coating and insulating on provided copper pipes having 13 mm thickness and inner diameter / sizes 19.1 mm for AC system	1876	Rmt	439	823564.00	482.9	905920.4
2.52	Supply, installation, testing and commissioning Centralize remote system for VRF system of hitachi make completed	1	Nos	127516	127516.00	140267.6	140267.6
2.53	Supply, installation, testing, commissioning of power Distribution panel with following specification. Panel made from 14 swg CRCA sheet, Free standing, floor mounted, front hinged, for indoor use, cubicle type, rear removable; underlined and removable bottom gland plates for incoming and outgoing connections, dust and vermin proof with TPN Aluminium bus bar, complete with internal wiring, ferrules name plates, powder coated, with complete interlock, gaskets, and following accessories. As Per single line diagram. CRITICAL LOAD PANEL 1 Sets of 63 A MCCB each with SC / OC / EF. M.P. based releases with following mountings on each feeder 6 Nos. R-Y-B / ON / OFF / TRIP / READY TO CLOSE. Indicating Lamps with Control MCB's. 1 No Multi function Meter With 3 Nos. Control MCB's. 3 Nos. 63 / 5A 15 VA class 5 P 20 C.T.'s 1 No. 0 to 63 Amp Ammeter 144 sqmm size and selector switch. 1 No. 0 to 600 Volt Voltmeter 144 sqmm size and selector switch and control MCB's. Busbars. 100Amps TPN AL Heat Shrink colour PVC sleeved. OUT GOING. 5 Sets of 40 A TP MCCB each with SC / OC / EF Microprocessor based releases with Following mountings on each Feeder. 2 Nos. LED ON / OFF Indicating Lamps with 1	1	SET	937282	937282.00	1031010.2	1031010.2

	Nos. Control MCB's 3 Nos 40 / 5A 15 VA class 5 P 20 C.T.'s 1 No 0 to 40 Amp Ammeter 96 sqmm size and selector switch 2 Sets of 32 A TP35 KA MCCB each with SC / OC / EF Microprocessor based releases with Following mountings on each Feeder 2 Nos. LED ON / OFF Indicating Lamps with 1 Nos. Control MCB's 3 Nos 32 / 5A 15 VA class 5 P 20 C.T.'s 1 No 0 to 32 Amp Ammeter 96 sqmm size and selector switch						
2.54	Supply, installation, testing, commissioning of power Distribution panel with following specification. Panel made form 14 swg CRCA sheet, Free standing, floor mounted, front hinged, for indoor use, cubicle type, rear removable, underlined and removable bottom gland plates for incoming and outgoing connections, dust and vermin proof with TPN Aluminium bus bar, complete with internal wiring, ferrules name plates, powder coated, with complete interlock, gaskets, and following accessories. As Per single line diagram. LIGHTING, POWER, UPS& PHE LOAD PANEL 1 Sets of 630 A MCCB each with SC / OC / EF M.P. based releases with following mountings on each feeder 7 Nos. R-Y-B / ON / OFF / TRIP / READY TO CLOSE Indicating Lamps with Control MCB's 1 No Multi function Meter With 3 Nos. Control MCB's 3 Nos 630 / 5A 15 VA class 5 P 20 C.T.'s 1 No 0 to 630 Amp Ammeter 144 sqmm size and selector switch 1 No 0 to 600 Volt Voltmeter 144 sqmm size and selector switch and control MCB's. Busbars 800 Amps TPN AL Heat Shrink colour PVC sleeved. OUT GOING 5 Sets of 63 A TP MCCB each with SC / OC / EF Microprocessor based releases with mountings on each Feeder 2 Nos. LED ON / OFF Indicating Lamps with 1 Nos. Control MCB's 3 Nos 63 / 5A 15 VA class 5 P 20 C.T.'s 1 No 0 to 63 Amp Ammeter 96 sqmm size and selector switch 2 Sets of 100 A TP35 KA MCCB each with SC / OC / EF Microprocessor based releases with mountings on each Feeder 2 Nos. LED ON / OFF Indicating Lamps with 1 Nos. Control MCB's 3 Nos 100 / 5A 15 VA class 5 P 20 C.T.'s 1 No 0 to 100 Amp Ammeter 96 sqmm size and selector switch 1 Sets of 100 A TP35 KA MCCB each with SC / OC / EF Microprocessor based releases with mountings on each Feeder 2 Nos. LED ON / OFF Indicating Lamps with 1 Nos. Control MCB's 3 Nos 400 / 5A 15 VA class 5 P 20 C.T.'s 1 No 0 to 400 Amp Ammeter 96 sqmm size and selector switch	1	SET	2192029	2192029.00	2411231.9	2411231.9
2.55	Supply, installation, testing, commissioning of power Distribution panel with following specification. Panel made form 14 swg CRCA sheet, Free standing, floor mounted, front hinged, for indoor use, cubicle type, rear removable, underlined and removable bottom gland plates for incoming and outgoing connections, dust and vermin proof with TPN Aluminium bus bar, complete with internal wiring, ferrules name plates, powder coated, with complete interlock, gaskets, and following accessories. As Per single line diagram. HVAC LOAD PANEL	2	SET	2078648	4157296.00	2286512.8	4573025.6
2.56	Supply, installation, testing, commissioning of power Distribution panel with following specification. Panel made form 14 swg	1	SET	1012869	1012869.00	1114155.9	1114155.9

	CRCA sheet, Free standing, floor mounted, front hinged, for indoor use, cubicle type, rear removable, underlined and removable bottom gland plates for incoming and outgoing connections, dust and vermin proof with TPN Aluminium bus bar, complete with internal wiring, ferrules name plates, powder coated, with complete interlock, gaskets, and following accessories. As Per single line diagram. PHE LOAD PANEL.						
2.57	Supply, installation, testing, commissioning of power Distribution panel with following specification. Panel made from 14 swg CRCA sheet, Free standing, floor mounted, front hinged, for indoor use, cubicle type, rear removable, underlined and removable bottom gland plates for incoming and outgoing connections, dust and vermin proof with TPN Aluminium bus bar, complete with internal wiring, ferrules name plates, powder coated, with complete interlock, gaskets, and following accessories. As Per single line diagram. UPS PANEL	1	SET	521552	521552.00	573707.2	573707.2
2.58	Supplying and erecting ON LOAD automatic transfer switch 4 pole, 415V, 63A, 50 Hz with enclosure, flexibility of neutral connection, line and load reversibility, changeover with phase barriers, source separator, terminal covers along with staggered termination for cable connection and ATS controller with provision of time delay protection of OV, UV, phase sequence changing, single phasing and event logging, connected with provided leads complete	2	No	37990	75980.00	41789	83578
2.59	ELECTRICAL WORKS- UPS & INVERTER BATTERY ACCESSORIES Supplying, Loading, Unloading, Installations, Testing, Commissioning of expandable modular IGBT BASED 80KVA (20kva modules) UPS 3 PHASE INPUT & 3 PHASE OUTPUT with reversal protection, Nominal Voltage 415 V AC (3 Ph + N), +/- 15% Frequency 50 Hz, +/- 1%, ThdI <= 3% (at full load and Vthd<1%), Power Factor = 0.99 Inverter Bridge Space Vector Modulation & IGBT Technology Qty. Similar to DELTA make Modular UPS 80 kVA NH + frame 4 X 20 kVA power module with SNMP /Modbus Card.	1	SET	4215759	4215759.00	4637334.9	4637334.9
2.6	Supplying, Loading, Unloading, Installations, Testing, Commissioning of SMF battery set, Battery Bank Rack, and battery connecting accessories for 80 KVA including all terminals and enter battery cabling SMF batteries 12V 150Ah 40 Nos. SMF Batteries for 30 Mins Backup (72000VAH) / Quanta or Equivalent make.	1	SET	3312095	3312095.00	3643304.5	3643304.5
2.61	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 4 Pole MCCB 100/125 A of 35 kA SC rating, thermal and magnetic setting with provided leads on iron frame with Enclosure board as per specification For medical eq. I/c Incoming and out going UPS & INVERTER.	1	SET	20199	20199.00	22218.9	22218.9
2.62	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 4 Pole MCCB 160 / 200 A of 35 kA SC rating, thermal and magnetic setting with provided leads on iron frame with Enclosure board as per specification For medical eq. I/c Incoming and out going UPS & INVERTER.	1	SET	26577	26577.00	29234.7	29234.7
2.63	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 4 Pole MCCB 250 A of 35 kA SC rating, thermal and magnetic setting with provided	1	SET	35721	35721.00	39293.1	39293.1

	leads on iron frame with Enclosure board as per specification For medical eq. I/c Incoming and out going						
2.64	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 4 Pole MCCB 315/400 A of 35 kA SC rating, thermal and magnetic setting with provided leads on iron frame with Enclosure board as per specification For medical eq. I/c Incoming and out going	1	SET	53795	53795.00	59174.5	59174.5
2.65	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 6 WAY Incomer- 2 Outgoing- 4 IK 09- Horizontal SPN Distribution Board IP 43 - Metal Door for Single/double door DBs Available in CRCA sheet steel, RAL 9003, powder coated Ready to use DBs - Provided with 100A insulated phase bus-bars neutral bar/s with shroud/s earth bar/s sticking saddles cement spill protector color-coded interconnecting wire set cable ties blanking plates and circuit identification labels With provision for FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoing. L&T, Schindler or equivalent	1	Nos	2768	2768.00	3044.8	3044.8
2.66	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 8 WAY Incomer- 2 Outgoing- 63 IK 09- Including Internal Wiring Horizontal SPN Distribution Board IP 43 - Metal Door for Single/double door DBs Available in CRCA sheet steel, RAL 9003, powder coated Ready to use DBs - Provided with 100A insulated phase bus-bars neutral bar/s with shroud/s earth bar/s sticking saddles cement spill protector color-coded interconnecting wire set cable ties blanking plates and circuit identification labels With provision for FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoing. L&T, Schindler or equivalent	1	Nos	2947	2947.00	3241.7	3241.7
2.67	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 12 WAY Incomer- 2 Outgoing- 10 IK 09- Horizontal SPN Distribution Board IP 43 - Metal Door for Single/double door DBs Available in CRCA sheet steel, RAL 9003, powder coated Ready to use DBs - Provided with 100A insulated phase bus-bars neutral bar/s with shroud/s earth bar/s sticking saddles cement spill protector color-coded interconnecting wire set cable ties blanking plates and circuit identification labels With provision for FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoing. L&T, Schindler or equivalent	8	Nos	4472	35776.00	4919.2	39353.6
2.68	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 4 WAY Incomer- 4 Outgoing- 4+4+4 IK 09- Horizontal TPN Distribution Board IP 43 - Metal Door for Single/double door DBs Available in CRCA sheet steel, RAL 9003, powder coated Ready to use DBs - Provided with 100A insulated phase bus-bars neutral bar/s with shroud/s earth bar/s sticking saddles cement spill protector color-coded interconnecting wire set cable ties blanking plates and circuit identification labels With provision for FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoing. L&T, Schindler or equivalent	6	Nos	5599	33594.00	6158.9	36953.4

2.69	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 8 WAY Incomer- 8 Outgoing- 8+8+8 IK 09- Including Internal Wiring Horizontal TPN Distribution Board IP 43 - Metal Door for Single/double door DBs Available in CRCA sheet steel, RAL 9003, powder coated Ready to use DBs - Provided with 100A insulated phase bus-bars neutral bar/s with shroud/s earth bar/s sticking saddles cement spill protector color-coded interconnecting wire set cable ties blanking plates and circuit identification labels With provision for FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoing. L&T, Schindler or equivalent.	5	Nos	8802	44010.00	9682.2	48411
2.7	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 12 WAY Incomer- 8 Outgoing-12+12+12 IK 09-Horizontal TPN Distribution Board IP 43 - Metal Door for Single/double door DBs Available in CRCA sheet steel, RAL 9003, powder coated Ready to use DBs - Provided with 100A insulated phase bus-bars neutral bar/s with shroud/s earth bar/s sticking saddles cement spill protector color-coded interconnecting wire set cable ties blanking plates and circuit identification labels With provision for FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoing. L&T, Schindler or equivalent	10	Nos	13177	131770.00	14494.7	144947
2.71	ELECTRICAL WORKS- DISTRIBUTION BOARD AND MCB, RCCB, TPMCB, SPMCB ACCESSORIES WORK Supplying, Loading, Unloading, Installations, Testing, Commissioning of 4 WAY Incomer- 8 Outgoing- 4+4+4 IK 09- vertical TPN Distribution Board IP 43 - Metal Door for Single/double door DBs Available in CRCA sheet steel, RAL 9003, powder coated Ready to use DBs - Provided with 100A insulated phase bus-bars neutral bar/s with shroud/s earth bar/s sticking saddles cement spill protector color-coded interconnecting wire set cable ties blanking plates and circuit identification labels With provision for FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoing. L&T, Schindler or equivalent	1	Nos	14516	14516.00	15967.6	15967.6
2.72	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 8 WAY Incomer- 8 Outgoing- 8+8+8 IK 09- Including Internal Wiring Vertical TPN Distribution Board IP 43 - Metal Door for Single/double door DBs Available in CRCA sheet steel, RAL 9003, powder coated Ready to use DBs - Provided with 100A insulated phase bus-bars neutral bar/s with shroud/s earth bar/s sticking saddles cement spill protector color-coded interconnecting wire set cable ties blanking plates and circuit identification labels With provision for FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoing. L&T, Schindler or equivalent	5	Nos	18923	94615.00	20815.3	104076.5
2.73	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 12 WAY Incomer- 8 Outgoing-12+12+12 IK 09-Vertical TPN Distribution Board IP 43 - Metal Door for Single/double door DBs Available in CRCA sheet steel, RAL 9003, powder coated Ready to use DBs - Provided with 100A insulated phase bus-bars neutral bar/s with shroud/s earth bar/s sticking	5	Nos	25655	128275.00	28220.5	141102.5

	saddles cement spill protector color-coded interconnecting wire set cable ties blanking plates and circuit identification labels With provision for FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoings. L&L, Schindler or equivalent						
2.74	Supplying, Loading, Unloading, Installations, Testing , Commissioning of Diesel generating set with alternator of 500 kVA output continuous rating, 3 Phase, 415 V, 50c/s 0.8 p. f. A.C a totally enclosed liquid cooled multi-cylinder diesel engine developing suitable BHP at 1500 rpm with 10% overload for 1 hour in 12 hours, alongwith standard accessories, self excited self regulated, screen protected alternator with static excitation system running at 1500 RPM as per IS 4722-2001 with voltage regulation +/- 5 %. Both the engine and alternator direct coupled on a common fabricated steel base frame and mounted on anti vibrating pads with standard control panel comprising meters, switchgears, indicators connected with suitable wires/cables, the complete set enclosed in composite Acoustic enclosure as fully assembled integral unit made of 16 SWG CRCA Sheet, sound absorbing material to restrict sound level upto 75 dB at 1.0 m, provided with first filling of oil, diesel etc. and obtaining necessary approval from Electrical Inspector/MSEB/MPCB/PWD as per specification. The engine filling of oil, diesel etc. whenever required upto handing over to User department. The DG set shall include all accessories items, protections, safety parameters, control Panel compatible with BMS (IP/BACNET/ ALL TYPE OF POTENTIAL FREE CONTACTS/ MODBUS ETC.), base frame with anti-vibration mount pad, fuel tank of 8 Hour capacity(750Ltrs to 999 Ltrs Tank capacity) with indicator, fuel pipe with pump, residential type exhaust silencer, 2X12 volt 180 amp-hour battery complete with copper conductor battery leads of required length and socket/clamps including G.I. stands for battery with wooden base, adaptor box etc complete as required for a 400 KVA DG Set as per the manufacturer recommendations. 400 KVA DG Set as per CPCB II norms, including No Load and Full load testing at Factory Before dispatched at site. EXHAUST ROUTING TO ATMOSPHERE FROM ENGINE Exhaust system consisting of 10" ERW Pipe including bends, flanges & hardware etc. 10" ERW Pipe including bends, flanges & hardware etc. 1" above exhaust pipe with 50 mm thk. Rockwool slab of 100 Kg/ M3 , wrapped with 24 gauge Aluminium sheet exhaust pipe with 50 mm thk. Rockwool slab of 100 Kg/ M3 , wrapped with 24 gauge Aluminium sheet exhaust pipe & silencer , with one coat of primer and 2 coats of Enamel Paint Insulation for silencer, 50mm thk. Rockwool Slab of 100 Kg/ m3 and wrapped with 24 gauge Aluminum sheet Notes :- 1) Supply of all Misc. materials, required to complete the installation on "Turnkey" basis are to be included in above offer 2) Required working Drawing for foundation to be furnished by Contractor. 3) Work excluded from the scope of supply under " EXCLUSIONS" in covering specification shall be carried out by others but as per D.G. Supplier's instructions and supervision. 4) Charging of batteries is supposed to be included in quoted price /or	3	Not	8012243	24036729.00	8813467.3	26440401.9

	equivalent / as Directed by Engineer in charge						
2.75	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Auto Mains Failure, Auto synchronizing, auto load shedding panel for 400 KVA 3 Nos D.G. SETS as per specification. as Directed by Engineer in charge	1	Nos	3325837	3325837.00	3658420.7	3658420.7
2.76	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating MCBs 63A 4P MCB Conforms to IS/IEC 60898-1, EN 60898-1, IEC 60898-1, EN 60947-2, IEC 60947-2 Short circuit Breaking Capacity 10kA (IEC 60898-1, EN 60898-1) 15kA (IEC 60947-2, EN 60947-2) - for 80A, 100A and 125A	6	Nos	3421	20526.00	3763.1	22578.6
2.77	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating MCBs 50A 4P MCB Conforms to IS/IEC 60898-1, EN 60898-1, IEC 60898-1, EN 60947-2, IEC 60947-2 Short circuit Breaking Capacity 10kA (IEC 60898-1, EN 60898-1) 15kA (IEC 60947-2, EN 60947-2) - for 80A, 100A and 125A	1	Nos	3421	3421.00	3763.1	3763.1
2.78	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating MCBs 40A 4P MCB Conforms to IS/IEC 60898-1, EN 60898-1, IEC 60898-1, EN 60947-2, IEC 60947-2 Short circuit Breaking Capacity 10kA (IEC 60898-1, EN 60898-1) 15kA (IEC 60947-2, EN 60947-2) - for 80A, 100A and 125A	1	Nos	3421	3421.00	3763.1	3763.1
2.79	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating MCBs 32A 4P MCB Conforms to IS/IEC 60898-1, EN 60898-1, IEC 60898-1, EN 60947-2, IEC 60947-2 Short circuit Breaking Capacity 10kA (IEC 60898-1, EN 60898-1) 15kA (IEC 60947-2, EN 60947-2) - for 80A, 100A and 125A	8	Nos	2415	19320.00	2656.5	21252
2.8	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating MCBs 25A 4P MCB Conforms to IS/IEC 60898-1, EN 60898-1, IEC 60898-1, EN 60947-2, IEC 60947-2 Short circuit Breaking Capacity 10kA (IEC 60898-1, EN 60898-1) 15kA (IEC 60947-2, EN 60947-2) - for 80A, 100A and 125A	10	Nos	2415	24150.00	2656.5	26565
2.81	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating MCBs 16A 4P MCB Conforms to IS/IEC 60898-1, EN 60898-1, IEC 60898-1, EN 60947-2, IEC 60947-2 Short circuit Breaking Capacity 10kA (IEC 60898-1, EN 60898-1) 15kA (IEC 60947-2, EN 60947-2) - for 80A, 100A and 125A	30	Nos	2415	72450.00	2656.5	79695
2.82	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating MCBs 16A 2P MCB Conforms to IS/IEC 60898-1, EN 60898-1, IEC 60898-1, EN 60947-2, IEC 60947-2 Short circuit Breaking Capacity 10kA (IEC 60898-1, EN 60898-1) 15kA (IEC 60947-2, EN 60947-2) - for 80A, 100A and 125A	23	Nos	1109	25507.00	1219.9	28057.7
2.83	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating MCBs 25A 2P MCB Conforms to IS/IEC 60898-1, EN 60898-1, IEC 60898-1, EN 60947-2, IEC 60947-2 Short circuit Breaking Capacity 10kA (IEC 60898-1, EN 60898-1) 15kA (IEC 60947-2, EN 60947-2) - for 80A, 100A and 125A	2	Nos	1109	2218.00	1219.9	2439.8
2.84	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating RCCBs 40A 2P 100mA RCCB Conforms to IEC 61008-1, EN 61008-1, IS 12640-1 Wide Range of Current Ratings - 16A to 100A Precise Sensitivities for variety of applications - from 10mA to 500mA 2P & 4P versions Suitable for Isolation &	15	Nos	6880	103200.00	7568	113520

	Protection Degree - IP 20 Availability of wide Range of Site Mountable Accessories Available in- Type AC : For standard AC installations						
2.85	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating RCCBs 32A 2P 100ma RCCB Conforms to IEC 61008-1, EN 61008-1, IS 12640-1 Wide Range of Current Ratings - 16A to 100A Precise Sensitivities for variety of applications - from 10mA to 500mA 2P & 4P versions Suitable for Isolation 8 Protection Degree - IP 20 Availability of wide Range of Site Mountable Accessories Available in- Type AC : For standard AC installations / or equivalent / as Directed by Engineer Incharge.	1	Nos	6880	6880.00	7568	7568
2.86	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating RCCBs 25A 2P 100ma RCCB Conforms to IEC 61008-1, EN 61008-1, IS 12640-1 Wide Range of Current Ratings - 16A to 100A Precise Sensitivities for variety of applications - from 10mA to 500mA 2P & 4P versions Suitable for Isolation 8 Protection Degree - IP 20 Availability of wide Range of Site Mountable Accessories Available in- Type AC : For standard AC installations.	29	Nos	6669	260091.00	7335.9	286100.1
2.87	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating RCCBs 16A 2P 30ma RCCB Conforms to IEC 61008-1, EN 61008-1, IS 12640-1 Wide Range of Current Ratings - 16A to 100A Precise Sensitivities for variety of applications - from 10mA to 500mA 2P & 4P versions Suitable for Isolation 8 Protection Degree - IP 20 Availability of wide Range of Site Mountable Accessories Available in- Type AC : For standard AC installations.	13	Nos	6669	86697.00	7335.9	95366.7
2.88	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating MCBs 6 TO 32A 1P 10KA Conforms to IS/IEC 60898-1, EN 60898-1, IEC 60947-2, IEC 60947-2 Wide Range of Current Ratings - 0.5A to 125A Short circuit Breaking Capacity 10kA (IEC 60898-1, EN 60898-1) 15kA (IEC 60947-2, EN 60947-2) - for 80A, 100A and 125A.	383	Nos	345	132135.00	379.5	145348.5
2.89	Supply And erecting Switch board for light on wall, false ceiling and concealed in Wall, Panels, etc with modular type switch 6A / 10A S P, unbreakable concealed type modular switch box with double mounting plate for 1 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP using 3 x 1.5 Sq mm. [P, N, E] Multistranded Copper Conductor, FRLS PVC insulated, 1100 V grade, Color Coded, ISI marked wires, & Accessories. The Point with Switch Board Light Points controlled by one 6A/10A S.P. Switch / bell push or Blank of unit complete.	30	Nos	421	12630.00	463.1	13893
2.9	Supply And erecting Switch board for light on wall, false ceiling and concealed in Wall, Panels, etc with modular type switch 6A / 10A S P, unbreakable concealed type modular switch box with double mounting plate for 2 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP using 3 x 1.5 Sq mm. [P, N, E] Multistranded Copper Conductor, FRLS PVC insulated, 1100 V grade, Color Coded, ISI marked wires, & Accessories. The Point with Switch Board Light Points controlled by one 6A/10A S.P. Switch / bell Push or Blank of unit complete.	26	Nos	735	19110.00	808.5	21021

2.91	Supply And erecting Switch board for light on wall, false ceiling and concealed in Wall, Panels, etc with modular type switch 6A / 10A S.P, unbreakable concealed type modular switch box with double mounting plate for 3 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP using 3 x 1.5 Sq.mm. [P, N, E] Multistranded Copper Conductor, FRLS PVC insulated, 1100 V grade, Color Coded, ISI marked wires, & Accessories. The Point with Switch Board Light Points controlled by one 6A/10A S.P. Switch / bell Push or Blank of unit complete.	8	Nos	564	4512.00	620.4	4963.2
2.92	Supply And erecting Switch board for light on wall, false ceiling and concealed in Wall, Panels, etc with modular type switch 6A / 10A S.P, unbreakable concealed type modular switch box with double mounting plate for 4 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP using 3 x 1.5 Sq.mm. [P, N, E] Multistranded Copper Conductor, FRLS PVC insulated, 1100 V grade, Color Coded, ISI marked wires, & Accessories. The Point with Switch Board Light Points controlled by one 6A/10A S.P. Switch / bell Push or Blank of unit complete.	10	Nos	1331	13310.00	1464.1	14641
2.93	Supply And erecting Switch board for light on wall, false ceiling and concealed in Wall, Panels, etc with modular type switch 6A / 10A S.P, unbreakable concealed type modular switch box with double mounting plate for 6 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP using 3 x 1.5 Sq.mm. [P, N, E] Multistranded Copper Conductor, FRLS PVC insulated, 1100 V grade, Color Coded, ISI marked wires, & Accessories. The Point with Switch Board Light Points controlled by one 6A/10A S.P. Switch / bell Push or Blank of unit complete.	9	Nos	1638	14742.00	1801.8	16216.2
2.94	Supply And erecting Switch board for light on wall, false ceiling and concealed in Wall, Panels, etc with modular type switch 6A / 10A S.P, unbreakable concealed type modular switch box with double mounting plate for 8 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP using 3 x 1.5 Sq.mm. [P, N, E] Multistranded Copper Conductor, FRLS PVC insulated, 1100 V grade, Color Coded, ISI marked wires, & Accessories. The Point with Switch Board Light Points controlled by one 6A/10A S.P. Switch / bell Push or Blank of unit complete.	10	Nos	2472	24720.00	2719.2	27192
2.95	Supply And erecting Switch board for light on wall, false ceiling and concealed in Wall, Panels, etc with modular type switch 6A / 10A S.P, unbreakable concealed type modular switch box with double mounting plate for 12/16 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP using 3 x 1.5 Sq.mm. [P, N, E] Multistranded Copper Conductor, FRLS PVC insulated, 1100 V grade, Color Coded, ISI marked wires, & Accessories. The Point with Switch Board Light Points controlled by one 6A/10A S.P. Switch / bell Push or Blank of unit complete.	12	Nos	3130	37560.00	3443	41316
2.96	Supply And erecting Switch board for light on wall, false ceiling and concealed in Wall, Panels, etc with modular type switch 6A / 10A S.P, unbreakable concealed type modular switch box with double mounting plate for 18 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP using 3 x 1.5 Sq.mm. [P, N, E] Multistranded Copper Conductor, FRLS PVC insulated, 1100 V	5	Nos	3547	17735.00	3901.7	19508.5

	grade, Color Coded, ISI marked wires, & Accessories. The Point with Switch Board Light Points controlled by one 6A/10A S.P. Switch / bell Push or Blank of unit complete.						
2.97	Supply And erecting Switch board for Ceiling fan on wall, false ceiling and concealed in Wall, Panels, etc with modular type switch 6A / 10A S.P, unbreakable concealed type modular switch box with double mounting plate for 3 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP using 3 x 1.5 Sq. mm. [P, N, E] Multistranded Copper Conductor, FRLS PVC insulated, 1100 V grade, Color Coded, ISI marked wires, & Accessories. The Point with Switch Board Light Points controlled by one 6A/10A S.P. Switch / bell Push With regulator complete.	10	Nos	2300	23000.00	2530	25300
2.98	Supply and installation of switch board for UPS Plugs, with ISI mark 1.1 KV grade PVC insulated copper wire with 2.5 Sq. mm ISI mark PVC insulated copper wire in green color used for earthing in existing PVC conduit on the board complete with 3 Nos. 5 pin 16A modular type socket and 1 No 16 Amp modular type Switch erected on original sheet metal / non metallic un-breakable box flush on wall / partition complete with double (mounting & cover) plate.	409	Nos	1021	417589.00	1123.1	459347.9
2.99	Supply and installation of switch board for Power Plug, on board with ISI mark 2-4 sq. mm 1.1 KV grade PVC insulated copper wire with 2.5 Sq. mm ISI mark PVC insulated copper wire in green color used for earthing in existing rigid PVC conduit on board for plug complete with 6 pin 6A & 16 A modular type socket and 16 Amp modular type Switch erected on original sheet metal / non metallic un-breakable box flush on wall with double (mounting & cover) plate.	150	Nos	1021	153150.00	1123.1	168465
3	Supply and installation of switch board for Telephone concealed type with existing telephone cable in existing concealed rigid PVC conduit for plug complete erected on original sheet metal / non metallic un-breakable box flush on wall with double (mounting & cover) plate. (Only Point)	20	Nos	1487	29740.00	1635.7	32714
3.01	Supplying and erecting Multistranded Copper Conductor FRLS PVC insulated, Color Coded, 1100 V grade, ISI marked wires, to be laid in item above 2 x 1.5 Sq. mm. [P, N] Wires + 1 x 1.5 Sq. mm. [E]	37000	Rmt	250	9250000.00	209	7733000
3.02	Supplying and erecting Multistranded Copper Conductor FRLS PVC insulated, Color Coded, 1100 V grade, ISI marked wires, to be laid in item above 2 x 2.5 Sq. mm. [P, N] Wires + 1 x 2.5 Sq. mm. [E]	29000	Rmt	250	7250000.00	193.6	5614400
3.03	Supplying and erecting Multistranded Copper Conductor FRLS PVC insulated, Color Coded, 1100 V grade, ISI marked wires, to be laid in item above 2 x 4 Sq. mm. [P, N] Wires + 1 x 4 Sq. mm. [E]	11000	Rmt	250	2750000.00	266.2	2928200
3.04	Supplying and erecting Multistranded Copper Conductor FRLS PVC insulated, Color Coded, 1100 V grade, ISI marked wires, to be laid in item above 4 x 4 Sq. mm. [R, Y, B, N] Wires + 1 x 4 Sq. mm. [E]	3500	Rmt	500	1750000.00	443.3	1551550
3.05	Supplying and erecting Multistranded Copper Conductor FRLS PVC insulated, Color Coded, 1100 V grade, ISI marked wires, to be laid in item above 4 x 10 Sq. mm. [P, N] Wires + 1 x 10 Sq. mm. [E]	1000	Rmt	613	613000.00	674.3	674300
3.06	Supplying and erecting I.S.I. mark Rigid P.V.C. conduit 20 mm. dia. with necessary accessories 20mm H.G. PVC conduit, with accessories as Junction Boxes, Couplers, on ceiling, Wall, panels etc. for following. a)	8000	Rmt	76	608000.00	83.6	668800

	light board Submains b) 3P 6A Socket Switch computer Points c) 3P 6 / 16A Socket Switch Point d) Cat -6 Cable Point e) Telephone Cable Point. Etc.						
3.07	Supplying and erecting I.S.I. mark Rigid P.V.C. conduit 25 mm. dia. with necessary accessories 25mm H.G. PVC conduit, with accessories as Junction Boxes, Couplers, on ceiling, Wall, panels etc. for following. a) light board Submains b) 3P 6A Socket Switch computer Points c) 3P 6 / 16A Socket Switch Point d) Cat -6 Cable Point e) Telephone Cable Point. Etc.	10000	Rmt	96	960000.00	105.6	1056000
3.08	Supplying and erecting I.S.I. mark Rigid P.V.C. conduit 32 mm. dia. with necessary accessories 32mm H.G. PVC conduit, with accessories as Junction Boxes, Couplers, on ceiling, Wall, panels etc. for following. a) light board Submains b) 3P 6A Socket Switch computer Points c) 3P 6 / 16A Socket Switch Point d) Cat -6 Cable Point e) Telephone Cable Point. Etc.	1000	Rmt	151	151000.00	166.1	166100
3.09	Supplying and erecting I.S.I. mark Flexible P.V.C. conduit 40 mm. dia. with necessary accessories 40mm H.G. PVC conduit, with accessories as Junction Boxes, Couplers, on ceiling, Wall, panels etc. for following. a) light board Submains b) 3P 6A Socket Switch computer Points c) 3P 6 / 16A Socket Switch Point d) Cat -6 Cable Point e) Telephone Cable Point. Etc.	500	Rmt	198	99000.00	217.8	108900
3.1	Supplying and erecting I.S.I. mark Flexible P.V.C. conduit 50 mm. dia. with necessary accessories 50mm H.G. PVC conduit, with accessories as Junction Boxes, Couplers, on ceiling, Wall, panels etc. for following. a) light board Submains b) 3P 6A Socket Switch computer Points c) 3P 6 / 16A Socket Switch Point d) Cat -6 Cable Point e) Telephone Cable Point. Etc.	199	Rmt	300	59700.00	330	65670
3.11	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 4 module duly flushed to wall with required chiselling and finishing with cement mortar / POP as per required to match the background.	50	Non	600	30000.00	660	33000
3.12	SITC of 1100 V grade XLPE insulated sheathed & steel armoured Aluminium Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 3.5 C X 300 Sq. mm. A X F Y XLPE	2060	Rmt	4500	9270000.00	9350	19261000
3.13	SITC of 1100 V grade XLPE insulated sheathed & steel armoured Aluminium Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 3.5 C X 185 Sq. mm. A X F Y XLPE	500	Rmt	4500	2250000.00	9350	4675000
3.14	SITC of 1100 V grade XLPE insulated sheathed & steel armoured Aluminium Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable	500	Rmt	4500	2250000.00	9350	4675000

	trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 3.5 C X 150 Sq. mm. A X F Y XLPE						
3.15	SITC of 1100 V grade XLPE insulated sheathed & steel armoured copper Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 4 C X 16 Sq. mm. YWY XLPE	500	Rmt	4500	2250000.00	9350	4675000
3.16	SITC of 1100 V grade XLPE insulated sheathed & steel armoured Copper Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 4 C X 10 Sq. mm. YWY XLPE	500	Rmt	4500	2250000.00	9350	4675000
3.17	SITC of 1100 V grade XLPE insulated sheathed & steel armoured Copper Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 4 C X 6 Sq. mm. YWY XLPE	500	Rmt	4500	2250000.00	9350	4675000
3.18	SITC of 1100 V grade XLPE insulated sheathed & steel armoured Copper Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 4 C X 4 Sq. mm. YWY XLPE	500	Rmt	4500	2250000.00	9350	4675000
3.19	SITC of 1100 V grade XLPE insulated sheathed & steel armoured Copper Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 3.5 C X 35 Sq. mm. YWY XLPE	500	Rmt	4500	2250000.00	10450	5225000
3.2	SITC of 1100 V grade XLPE insulated sheathed & steel armoured Copper Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed	500	Rmt	3500	1750000.00	3850	1925000

	flange type elliptical / conical, heavy duty brass glands, crimping sockets including 3 C X 4 Sq. mm. YWY XLPE						
3.21	SITC of 1100 V grade XLPE insulated sheathed & steel armoured Aluminium Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 4 C X 25 Sq. mm. A Y F Y XLPE	500	Rmt	2500	1250000.00	2750	1375000
3.22	SITC of 1100 V grade XLPE insulated sheathed & steel armoured Aluminium Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 3.5 C X 95 Sq. mm. A Y F Y XLPE	500	Rmt	2799	1399500.00	3078.9	1539450
3.23	Supplying & erecting single compression type brass cable glands for 4 core 10 Sq mm	10	Nos.	140	1400.00	154	1540
3.24	Supplying & erecting single compression type brass cable glands for 4 core 16 Sq mm	10	Nos.	278	2780.00	305.8	3058
3.25	Supplying & erecting single compression type brass cable glands for 4 core 25 Sq mm.	10	Nos.	312	3120.00	343.2	3432
3.26	Supplying & erecting single compression type brass cable glands for 4 core 35 Sq mm.	10	Nos.	312	3120.00	343.2	3432
3.27	Supplying & erecting single compression type brass cable glands for 3/4 core 95 sq mm cable	10	Nos.	558	5580.00	613.8	6138
3.28	Supplying & erecting single compression type brass cable glands for 3/4 core 150 sq mm cable	10	Nos.	558	5580.00	613.8	6138
3.29	Supplying & erecting Single Compression type brass cable glands for 3/4 core 185sq mm cable	10	Nos.	879	8790.00	966.9	9669
3.3	Supplying & erecting Single Compression type brass cable glands for 3/4 core 240 sq mm cable	10	Nos.	879	8790.00	966.9	9669
3.31	Supplying & erecting Single Compression type brass cable glands for 3/4 core 300 sq mm cable	10	Nos.	1199	11990.00	1318.9	13189
3.32	Supplying & erecting crimping type aluminium lugs for cable 16 sq mm complete	40	Nos.	11	440.00	12.1	484
3.33	Supplying & erecting crimping type aluminium lugs for cable 25 sq mm complete	40	Nos.	12	480.00	13.2	528
3.34	Supplying & erecting crimping type aluminium lugs for cable 35 sq mm complete	40	Nos.	19	760.00	20.9	836
3.35	Supplying & erecting crimping type aluminium lugs for cable 95 sq mm complete	40	Nos.	33	1320.00	36.3	1452
3.36	Supplying & erecting crimping type aluminium lugs for cable 185 sq mm complete	40	Nos.	78	3120.00	85.8	3432
3.37	Supplying & erecting crimping type aluminium lugs for cable 240 sq mm complete	40	Nos.	112	4480.00	123.2	4928
3.38	Supplying & erecting crimping type aluminium lugs for cable 300 sq mm complete	40	Nos.	163	6520.00	179.3	7172
3.39	Supplying & erecting crimping type Copper lugs for cable Upto 16 sq mm complete	40	Nos.	24	960.00	26.4	1056
3.4	Supplying & erecting crimping type Copper lugs for cable 25 sq mm complete	40	Nos.	36	1440.00	39.6	1584
3.41	Supplying & erecting crimping type Copper lugs for cable 35 sq mm complete	40	Nos.	42	1680.00	46.2	1848
3.42	Supply, installing, and testing of maintenance free earthing comprising of electrode of 17.2 mm diameter Low Carbon Steel with 250 micron molecular copper	10	Nos.	27000	270000.00	29700	297000

	bonded earthing rod of Length 3m along with Carbon based environment friendly back fill ground enhancing compound required to fill up the excavated earth with required quantity (min. 125kg) complete, and recording the results						
3.43	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 120 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, complete	100	Rmt	5000	500000.00	5500	550000
3.44	Supplying and erecting GI earth conductor of required sizes used for earthing or any other purposes on wall with necessary GI clamps fixed on wall/cable/ conduit with screws complete(8 SWG)	50	KG	300	15000.00	330	16500
3.45	Supplying and laying of Hot deeped Galvanised Perforated type Cable tray manufactured from 16 swg (1.6 mm thick), including couplers, G.I. Bolts, nuts, washers, necessary G.I. Hardware to be mounted on M.S fabricated supports (considered in separate item.) Sizes as follows 500 x 75 mm	100	Rmt	1800	180000.00	1980	198000
3.46	Supplying and laying of Hot deeped Galvanised Perforated type Cable tray manufactured from 16 swg (1.6 mm thick), including couplers, G.I. Bolts, nuts, washers, necessary G.I. Hardware to be mounted on M.S fabricated supports (considered in separate item.) Sizes as follows 400 x 75 mm	100	Rmt	1800	180000.00	1980	198000
3.47	Supplying and laying of Hot deeped Galvanised Perforated type Cable tray manufactured from 16 swg (1.6 mm thick), including couplers, G.I. Bolts, nuts, washers, necessary G.I. Hardware to be mounted on M.S fabricated supports (considered in separate item.) Sizes as follows 300 x 100 mm	100	Rmt	1800	180000.00	1980	198000
3.48	Supplying and laying of Hot deeped Galvanised Perforated type Cable tray manufactured from 16 swg (1.6 mm thick), including couplers, G.I. Bolts, nuts, washers, necessary G.I. Hardware to be mounted on M.S fabricated supports (considered in separate item.) Sizes as follows 300 x 50/75 mm	100	Rmt	1800	180000.00	1980	198000
3.49	Supplying and laying of Hot deeped Galvanised Perforated type Cable tray manufactured from 16 swg (1.6 mm thick), including couplers, G.I. Bolts, nuts, washers, necessary G.I. Hardware to be mounted on M.S fabricated supports (considered in separate item.) Sizes as follows 200 x 50/75 mm	100	Rmt	1800	180000.00	1980	198000
3.5	Supplying and laying of Hot deeped Galvanised Perforated type Cable tray manufactured from 16 swg (1.6 mm thick), including couplers, G.I. Bolts, nuts, washers, necessary G.I. Hardware to be mounted on M.S fabricated supports (considered in separate item.) Sizes as follows 150 x 50/75 mm	100	Rmt	1800	180000.00	1980	198000
3.51	SITC of Hitch suspension Support G.I. 10 MM dia Thierded Tie Rod for supporting of cable tray of any length with G.I Hardware, install between Trusses G.I. Rail Channel Strip / Trusses welded clamp & supporting angle / GI Rail Channel strip below of cable tray. (Supporting angle/ welded strip/ Rail Channel covered in separte item)	50	Mtrs.	190	9500.00	209	10450
3.52	SITC of Hitch Support G.I. 2 MM Thick X 30 mm Width Rail Channel strip for supporting of cable tray of any length, install on Trusses & supporting of cable tray. (Supporting Thierded Rod & welded strip covered in separte item)	100	Mtrs.	180	18000.00	198	19800
3.53	SITC of M.S fabricated supports for cable trays of M.S sections welded to structure /	90	KG	110	9900.00	121	10890

	clamped to structure / wall, using anchor bolts where required including G.I hardware & painting with Two coats of Red oxide primer & 2 coats of enamel paint of approved shade. (colour As per Ex.)						
3.54	Supplying and erecting anodized aluminium mirror light LED fitting (2 feet) for toilet area Indirect lighting Max. 12W with high transitivity diffuser with min. system lumens output of 1200 lumens, min. efficacy of 100 lumen/W, CRI>80, CCT upto 6000K, Beam Angle of 110 deg., Ripple<5%, THD<20%, p.f. >0.95, operating range of 200-270V, surge protection of 2 kV, Life class of 50,000 Hrs at L70B50 including driver with end caps on provided PVC Block / wooded board with minimum 2 years warranty as per specification No. FG-IDF/LED.	22	Nos	12500	275000.00	13750	302500
3.55	Supply, installation, testing & commissioning of following light fixtures complete with: a) All fixing accessories, mounting brackets, anchor fasteners, suspension wires/chains etc. necessary for completeness of installation. b) Drivers / Controllers with housing. c) Lamp of specified wattage. d) Earthing of fittings. e) Diffuser shall fit up uniformly without any black spot on diffuser. f) Light fixture finishes should be as specified. g) Any visible power supply cable to light fixture shall be transparent. h) All suspended fixtures shall be provided with SS caps to put around suspension at false ceiling level. Note: 1) In addition to above mentioned accessories details, vendor to consider specific light fixture requirement mentioned along-with light fixture. 2) Light Fixtures final confirmation to be done by Architect and Lighting Consultant. MR 1.2M Long 25mm THIK Concealed Profile light with 30W PER METER LED STRIP LIGHT	62	Nos	6917	428854.00	7608.7	471739.4
3.56	Tube Light- 4-Feet 48-WATT (DOUBLE) 6500K With Wide Angle Reflector	23	Nos	10376	238648.00	11413.6	262512.8
3.57	42 W Led Down Light Fitting Surface Mounted / Suspension Mounted	134	Nos	15131	2027854.00	16644.1	2230309.4
3.58	20 W Track Light With Cob Led & Extruded Aluminium Housing	55	Nos	12542	689810.00	13796.2	758791
3.59	Single Phase 1 Mtr. Track For Track Lights	60	Nos	5763	345780.00	6339.3	380358
3.6	38 W Led Type Light Fitting Surface / Suspension Mounted	30	Nos	2034	61020.00	2237.4	67122
3.61	32 W Recessed Mounted Led Type Light Fitting	113	Nos	10376	1172488.00	11413.6	1289736.8
3.62	4.0 W Led Batten Type Light Fitting Suitable For Surface Mountin	6	Nos	7782	46692.00	8560.2	51361.2
3.63	16 W Batten Type Led Light Fitting	50	Nos	3891	194550.00	4280.1	214005
3.64	Led Wall Wash Light Fittings	59	Nos	7590	447810.00	8349	492591
3.65	Led Hanging Light Fittings	21	Nos	6102	128142.00	6712.2	140956.2
3.66	Rgb Floor Strip Lights Of 300 Mm. Length With Controller	123	Nos	90390	11117970.00	99429	12229767
3.67	5 W Led Study Table Lamp	9	Nos	5404	48636.00	5944.4	53499.6
3.68	36w Led Downlight	20	Nos	15131	302620.00	16644.1	332882
3.69	SITC Of White Pop-Up Box For Library Area Switch Socket Installation, The Configuration To Consist Of Switch+Socket Complete In All Respect, Flushed With The Table.	20	Nos	14134	282680.00	15547.4	310948
3.7	Providing and installing Nylon net for protection from Birds entry in Entrance Lobby (Exterior Projection)	10	Sqm	5000	50000.00	5500	55000
3.71	UST LensMR Supply And Installation Of Accessories With Specifications Mentioned Below And As Per Direction Of Engineer-In-Charge Supply And Installation Of Ultra	1	no.	1014723	1014723.00	1116195.3	1116195.3

	Short Throw Lens With Specifications Mentioned Below And As Per Direction Of Engineer-In-Charge Brand And Model Epson Ultra Short Throw Lens ELPLX02Zoom Ratio 0Throw Ratio (4.3) 0.35Throw Ratio (16:10) 0.35MR						
3.72	LAN To HDMI Converter MR HDMI Converters Are Devices That Connect A Non-HDMI Source To An HDMI Display. ... For Example, The HDMI Signal Flows Out Of Your DVD Player And Into Your TV. MR	1	no.	2700	2700.00	2970	2970
3.73	Live Action Shoot Story 2 MR Undertake Test Shoots And Experiments To Deduce Appropriate Camera Angles For The Specific Measurement Requirements Of The Target Environment ,Professional Services Of The Director, Director Of Photography, Camera Crew, Lighting Crew, Sound Recordist, And Other Sundry Shoot Crew Totalling 40 Crew Members For Mentioned Days Of Shoot.Rent Of Lighting Systems For Croma Lighting, Subject Lighting For Camera, And Stage Lighting Of The Set, For Mentioned Days Of Shoot.Professional Services Of The Visual Effects Supervisor For Mentioned Days Of Shoot MR	2	nos.	1334500	2669000.00	1467950	2935900
3.74	Writing the complete script story 2 MR. This refers to the forming of the story in written form, wherein the idea behind the installation is visualised and thought of. The same script is then referred for all cgi creation and further development MR	1	no.	334395	334395.00	367834.5	367834.5
3.75	Photorealistic Head Modelling story 2 MR. Recreating Model Of The Personality Head in three dimension for it to be used in the process ahead. Three-dimensional (3D) models should represent a physical body using a collection of points in 3D space, connected by various geometric entities such as triangles, lines, curved surfaces, etc. Being a collection of data (points and other information), 3D models can be created by hand, algorithmically (procedural modeling), or scanned MR	1	no.	941760	941760.00	1035936	1035936
3.76	Photorealistic Head Texturing story 2MR In this process you would need to create colours, paints and textures for the above model so that it is realistic, for which you will have to use a method called multi texturing. Multitexturing is the use of more than one texture at a time on a polygon. For instance, a light map texture may be used to light a surface as an alternative to recalculating that lighting every time the surface is rendered. Microtextures or detail textures will be needed to add higher frequency details, and dirt maps may add weathering and variation; this can greatly reduce the apparent periodicity of repeating textures. Modern graphics may use more than 10 layers, which are combined using shaders, for greater fidelity. Another multitexture technique is bump mapping, which allows a texture to directly control the facing direction of a surface for the purposes of its lighting calculations; it can give a very good appearance of a complex surface (such as tree bark or rough concrete) that takes on lighting detail in addition to the usual detailed coloring. MR	1	no.	561750	561750.00	617925	617925

3.77	Rigging story 2 In this process you will be required to put digital joints and muscles so that the above model can be animated realistically. This technique is used by constructing a series of 'bones,' sometimes referred to as rigging. Each bone has a three-dimensional transformation from the default bind pose (which includes its position, scale and orientation), and an optional parent bone. The bones therefore form a hierarchy. The full transform of a child node is the product of its parent transform and its own transform. So moving a thigh-bone will move the lower leg too. As the character is animated, the bones change their transformation over time, under the influence of some animation controller. A rig is generally composed of both forward kinematics and inverse kinematics parts that may interact with each other. Skeletal animation is referring to the forward kinematics part of the rig, where a complete set of bone configurations identifies a unique pose. Each bone in the skeleton is associated with some portion of the character's visual representation in a process called skinning. In the most common case of a polygonal mesh character, the bone is associated with a group of vertices; for example, in a model of a human being, the 'thigh' bone would be associated with the vertices making up the polygons in the model's thigh. Portions of the character's skin can normally be associated with multiple bones, each one having a scaling factors called vertex weights, or blend weights. The movement of skin near the joints of two bones, can therefore be influenced by both bones. For a polygonal mesh, each vertex can have a blend weight for each bone. To calculate the final position of the vertex, a transformation matrix is created for each bone which, when applied to the vertex, first puts the vertex in bone space then puts it back into mesh space. After applying a matrix to the vertex, it is scaled by its corresponding weight. MR	1	no.	121900	121900.00	134090	134090
3.78	Photorealistic Head Lighting - story 2 In this Process you will need to match the lighting of the textured model to the shoot for it to look seamless. It refers to the simulation of light in computer graphics. This simulation can either be extremely accurate, as is the case in an application like Radiance which attempts to track the energy flow of light interacting with materials using radiosity computational techniques. Alternatively, the simulation can simply be inspired by light physics, as is the case with non-photorealistic rendering. In both cases, a shading model will be used to describe how surfaces respond to light. Between these two extremes, there are many different rendering approaches which can be employed to achieve almost any desired visual result. MR	1	no.	231629	231629.00	254791.9	254791.9
3.79	Hologram Head Animation - 10 minutes -story 2 MR Computer animation is the process used for generating animated images. The more general term computer-generated imagery (CGI) encompasses both static scenes and dynamic images, while computer animation only refers to the moving images. Computer animation is essentially a digital successor to the stop motion techniques using 3D models, and traditional animation techniques using frame-by-frame animation of 2D illustrations. Computer-generated animations	600	sec.	7876	4725600.00	8663.6	5198160

	are more controllable than other more physically based processes, constructing miniatures for effects shots or hiring extras for crowd scenes, and because it allows the creation of images that would not be feasible using any other technology. It can also allow a single graphic artist to produce such content without the use of actors, expensive set pieces, or props. To create the illusion of movement, an image is displayed on the computer monitor and repeatedly replaced by a new image that is similar to it, but advanced slightly in time.						
3.8	CGI Head Replacement on a Live Action Character and 3D Tracking (12 Minutes) MR This refers to the replacement of the actual human head with the one which is CGI created in a computer software with all the facial animations and lighting. The animated head is then places/tracked frame by frame over the moving human so as to completely overlap the actual head. MR	720	sec.	2500	1800000.00	6392.1	4602312
3.81	Hologram Visual FX / Holographic Imagery 12 minutes MR This refers to creating of various graphical/visual elements in tune with the script/storyboard of the desired installation in order to enhance the visual story telling. This involves creation of element in various softwares and then compiling into one visual element. MR	720	sec.	6100	4392000.00	7811.1	5623992
3.82	Creating and Editing the Sound Effects MR Combining (Mixing) the 4K Output Video, the dubbed voice track, the sound effects, and original music into a single Master Video for playback through the Holographic Projection System MR	1	no.	276550	276550.00	304205	304205
3.83	Chroma Keying and Roto MR a photographic compositing technique based on the separation of colors in the original images especially : blue screen sense 1 rotoscoping is the technique of manually creating a matte for an element on a live-action plate so it may be composited over another background MR	720	sec.	2150	1548000.00	2636.7	1898424
3.84	4K Holographic Rendering MR This refers to the the image compilation of the composited output to form the final image/visual. The process involves processing of the various 4k element to be combined to form a single image. MR	24000	frame	412	9888000.00	453.2	10876800
3.85	Compositing MR It represents each media object in a composite as a separate layer within a timeline, each with its own time bounds, effects, and keyframes. All the layers are stacked, one above the next, in any desired order, and the bottom layer is usually rendered as a base in the resultant image, with each higher layer being progressively rendered on top of the previously composited of layers, moving upward until all layers have been rendered into the final composite. Layer-based compositing is very well suited for rapid 2D and limited 3D effects such as in motion graphics, but becomes awkward for more complex composites entailing a large number of layers. A partial solution to this is some programs' ability to view the composite-order of elements (such as images, effects, or other attributes) with a visual diagram called a flowchart to nest compositions, or "comps," directly into other compositions, thereby adding complexity to the render-order by first compositing layers in the beginning composition, then combining that	24000	frame	173	4152000.00	190.3	4567200

	resultant image with the layered images from the preceding composition, and so onMR						
3.86	Technical Architecture Design :It refers to the high level structures of a software system and the discipline of creating such structures and systems. Each structure comprises software elements, relations among them, and properties of both elements and relations. It functions as a blueprint for the system and the developing project, laying out the tasks necessary to be executed by the design teams.It is about making fundamental structural choices which are costly to change once implemented. Software architecture choices include specific structural options from possibilities in the design of software. For example, the systems that controlled the space shuttle launch vehicle had the requirement of being very fast and very reliable. Therefore, an appropriate real-time computing language would need to be chosen. Additionally, to satisfy the need for reliability the choice could be made to have multiple redundant and independently produced copies of the program, and to run these copies on independent hardware while cross-checking results. MR	1	no.	702000	702000.00	772200	772200
3.87	Fabrication Design and 3D Visualisation MR This refers to creation of the physical insulation inside of a software program to visualise how its going to look in the real world before the actual onground production. MR	1	no.	233200	233200.00	256520	256520
3.88	Software Programming MR It is the process of designing and building an executable computer program for accomplishing a specific computing task. Programming will involve tasks such as: analysis, generating algorithms, profiling algorithms' accuracy and resource consumption, and the implementation of algorithms in a chosen programming language (commonly referred to as coding). The source code of a program is written in one or more languages that are intelligible to programmers, rather than machine code, which is directly executed by the central processing unit. The purpose of programming is to find a sequence of instructions that will automate the performance of a task (which can be as complex as an operating system) on a computer, often for solving a given problem. The process of programming thus often requires expertise in several different subjects, including knowledge of the application domain, specialized algorithms, and formal logic. The system splits the media in to two zones , low res for visualisation of the playback in the control room and 4K for the main holographic playback. Also gives turnkey playback system from the control unit. MR	1	no.	1686500	1686500.00	1855150	1855150
3.89	Asset IntegrationMR asset integration refers to the compiling/placing/integration/optimisation of the various elements (graphics/cgi) needed to from the front end of the desired application/installationMR.	1	no.	135000	135000.00	148500	148500
3.9	Testing / Compilation It is an investigation conducted to provide stakeholders with information about the quality of the software product or service under test. Software testing can also provide an objective, independent view of the software to allow the business to appreciate and understand the risks of software implementation. Test techniques include the	1	no.	159000	159000.00	174900	174900

	process of executing a program or application with the intent of finding software bugs (errors or other defects), and verifying that the software product is fit for use. MR						
3.91	Installation / Integration This includes the setting up of the physical installation including mounting of the projectors /screens/and loading and execution of the required software/licenses (Hologram) MR	1	no.	399587	399587.00	439545.7	439545.7
3.92	UI / UX This is design balance process it balances technical functionality and visual elements. this is to create a system that is not only operational but also usable and adaptable to changing user needs (Hologram) MR	1	no.	901000	901000.00	991100	991100
3.93	Supply and installation of Projector with specifications mentioned below and as per direction of Engineer-in-charge.	1	Nos	850000	850000.00	935000	935000
3.94	Projector Mount	1	mm	5000	5000.00	5500	5500
3.95	Supply and installation of Computer Intel Core i7 with specifications mentioned below and as per direction of Engineer-in-charge. Brand and Model Gigabyte Brix or Similar RAM 8GBx2 Hyperx Fury 3200MHz Storage 512GB NVME Display Adapter Gigabyte GeForce RTX 3060 Gaming OC 8GB GDDR6 Network Adapter Gigabit Ethernet LAN 10/100/100	1	Nos	125000	125000.00	137500	137500
3.96	Supply and installation of Licenses with specifications mentioned below and as per direction of Engineer-in-charge: Windows 10 Professional (OEM License)	1	Nos	11000	11000.00	12100	12100
3.97	Sensor	1	Nos	140000	140000.00	154000	154000
3.98	Sensor mount	1	Nos	25000	25000.00	27500	27500
3.99	Cables / Connectors for the Video on Lotus Pond Media Extension (HDMI) Power Cables Power Extension and Switches Network Cabling HDMI converter. 2	1	Set	5000	5000.00	5500	5500
4	Speaker	1	Nos	55000	55000.00	60500	60500
4.01	Software Programming for Video on Pond: It is the process of designing and building an executable computer program for accomplishing a specific computing task. Programming involves tasks such as: analysis, generating algorithms, profiling algorithms' accuracy and resource consumption, and the implementation of algorithms in a chosen programming language (commonly referred to as coding). The source code of a program is written in one or more languages that are intelligible to programmers, rather than machine code, which is directly executed by the central processing unit. The purpose of programming is to find a sequence of instructions that will automate the performance of a task (which can be as complex as an operating system) on a computer, often for solving a given problem. The process of programming thus often requires expertise in several different subjects, including knowledge of the application domain, specialized algorithms, and formal logic. It interfaces all the pages of the book in a interactive way, pages are combinations of static images and videos.	1	Nos	850000	850000.00	935000	935000

4.02	Asset Integration for Interactive Lotus Pond	1	Nos	60000	60000.00	66000	66000
4.03	Testing / Compilation for Video on Interactive Pond. It is an investigation conducted to provide stakeholders with information about the quality of the software product or service under test. Software testing can also provide an objective, independent view of the software to allow the business to appreciate and understand the risks of software implementation. Test techniques include the process of executing a program or application with the intent of finding software bugs (errors or other defects), and verifying that the software product is fit for use	1	Nos	110000	110000.00	121000	121000
4.04	Experience design	1	No	120000	120000.00	132000	132000
4.05	Storyboard design	1	No	35000	35000.00	38500	38500
4.06	Sound Design	1	No	35000	35000.00	38500	38500
4.07	3D Animation , VFX, Sound for Lotus pond	300	Seconds	4000	1200000.00	4400	1320000
4.08	Rendering	7500	Frames	411	3082500.00	452.1	3390750
4.09	Integration / Installation for Lotus Pond	1	Nos	120000	120000.00	132000	132000
4.1	Supply and installation of Computer Intel Core i5 with specifications mentioned below and as per direction of Engineer-in-charge. Brand and Model Gigabyte Brix or Simillar RAM 8GB DDR4 Storage 250GB NVME Display Adapter Intel Graphics	4	Nos	55000	220000.00	60500	242000
4.11	Supply and installation of Licenses with specifications mentioned below and as per direction of Engineer-in-charge. Windows 10 Professional (OEM License)	4	Nos	11000	44000.00	12100	48400
4.12	Supply and installation for Samsung 24" touch screen	4	Nos	35000	140000.00	38500	154000
4.13	Cables / Connectors for the Video on Transparent Display box Media Extension (HDMI) Power Cables Power Extension and Switches Network Cabling	4	Set	5000	20000.00	5500	22000
4.14	Software Programming for Animal Kingdom	1	Nos	760000	760000.00	836000	836000
4.15	Asset Integration for Kingdom	1	Nos	60000	60000.00	66000	66000
4.16	Testing / Compilation for Animal Kingdom	1	Nos	110000	110000.00	121000	121000
4.17	Game design	1	No	90000	90000.00	99000	99000
4.18	Storyboard design	1	No	80000	80000.00	88000	88000
4.19	Sound Design	1	No	35000	35000.00	38500	38500
4.2	3D Animation , VFX, Sound for Animal Kingdom	300	Seconds	4000	1200000.00	4400	1320000
4.21	Rendering	7500	Frames	411	3082500.00	452.1	3390750
4.22	Integration / Installation for Video on Animal Kingdom	1	Nos	120000	120000.00	132000	132000
4.23	Supply and installation of Computer Intel Core i5 with specifications mentioned below and as per direction of Engineer-in-charge Brand and Model Gigabyte Brix or Simillar RAM 8GB DDR4 Storage 250GB NVME Display Adapter Intel Graphics	1	Nos	55000	55000.00	60500	60500
4.24	Supply and installation of Licenses with specifications mentioned below and as per direction of Engineer-in-charge. Windows 10 Professional (OEM License)	1	Nos	11000	11000.00	12100	12100
4.25	Supply and installation of Projector with specifications mentioned below and as per direction of Engineer-in-charge.	1	Nos	545000	545000.00	599500	599500
4.26	Projector Mount	1	nos	5000	5000.00	5500	5500
4.27	Cables / Connectors for the Video on Projector Media Extension (HDMI) Power Cables Power Extension and Switches Network Cabling	1	Set	3000	3000.00	3300	3300

4.28	Software Programming for Video on Led Wall : It is the process of designing and building an executable computer program for accomplishing a specific computing task. Programming involves tasks such as: analysis, generating algorithms, profiling algorithms' accuracy and resource consumption, and the implementation of algorithms in a chosen programming language (commonly referred to as coding). The source code of a program is written in one or more languages that are intelligible to programmers, rather than machine code, which is directly executed by the central processing unit. The purpose of programming is to find a sequence of instructions that will automate the performance of a task (which can be as complex as an operating system) on a computer, often for solving a given problem. The process of programming thus often requires expertise in several different subjects, including knowledge of the application domain, specialized algorithms, and formal logic. It interfaces all the pages of the book in a interactive way, pages are combinations of static images and videos.	1	Nos	350000	350000.00	385000	385000
4.29	Asset Integration for Video on Led Wall	1	Nos	60000	60000.00	66000	66000
4.3	Testing / Compilation for Video on Led Wall : It is an investigation conducted to provide stakeholders with information about the quality of the software product or service under test. Software testing can also provide an objective, independent view of the software to allow the business to appreciate and understand the risks of software implementation. Test techniques include the process of executing a program or application with the intent of finding software bugs (errors or other defects), and verifying that the software product is fit for use.	1	Nos	250000	250000.00	275000	275000
4.31	Script design	1	No	70000	70000.00	77000	77000
4.32	Storyboard design	1	No	80000	80000.00	88000	88000
4.33	Sound Design	1	No	35000	35000.00	38500	38500
4.34	3D Animation , VFX, Sound for Video on Led Wall	270	Seconds	3125	843750.00	3437.5	928125
4.35	Rendering	6750	Frames	411	2774250.00	452.1	3051675
4.36	Integration / Installation for Video on Led Wall	1	Nos	120000	120000.00	132000	132000
4.37	Supply and installation of Computer Intel Core i5 with specifications mentioned below and as per direction of Engineer-in-charge. Brand and Model Gigabyte Brix or Simillar RAM 8GB DDR4 Storage 250GB NVME Display Adapter Intel Graphics	1	Nos	50000	50000.00	55000	55000
4.38	Supply and installation of Licenses with specifications mentioned below and as per direction of Engineer-in-charge: Windows 10 Professional (OEM License)	1	Nos	16000	16000.00	17600	17600
4.39	Supply and installation of Projector with specifications mentioned below and as per direction of Engineer-in-charge.	1	Nos	300000	300000.00	330000	330000
4.4	Projector Mount	1	nos	5000	5000.00	5500	5500
4.41	Supply and installation for Samsung 19" screen	1	Nos	20000	20000.00	22000	22000
4.42	Cables / Connectors for Auditorium Media Extension (HDMI) Power Cables Power Extension and Switches Network Cabling	1	Set	3000	3000.00	3300	3300
4.43	Speaker	1	Nos	60000	60000.00	66000	66000

4.44	Supply and installation of Computer Intel Core i7 with specifications mentioned below and as per direction of Engineer-in-charge. Brand and Model Gigabyte Brix or Similar RAM 8GBx2 Hyperx Fury 3200MHz Storage 512GB NVME Display Adapter Gigabyte GeForce RTX 3060 Gaming OC 8GB GDDR6 Network Adapter Gigabit Ethernet LAN 10/100/100	1	Nos	120000	120000.00	132000	132000
4.45	Camera	1	Nos	12000	12000.00	13200	13200
4.46	Biamped, coaxial two-way point source loudspeaker with a single 12-15" LF driver and compression driver with 3" or better Voice coil. Frequency Range (-10dB) of 60Hz - 20kHz or better & long term Continuous Power Handling of 300W (Low frequency) and 45W for High Frequency driver or better. The Loudspeaker module shall have a Max. SPL (Peak) of MF/HF >= 131 or better. It should have Horizontal dispersion pattern of 110° or better, vertical dispersion of the loudspeaker shall be 60 degrees or better. The loudspeaker shall be enclosed in a Baltic birch plywood enclosure with perforated steel grille.	2	Nos.	300000	600000.00	330000	660000
4.47	Multipurpose subwoofer with a single 15" neodymium LF driver. Frequency Range (-10dB) of 35Hz - 130Hz or better & long term Continuous Power Handling of 500W or better. It should have an axial Sensitivity of >= 90dB (1W/1m) or more delivering a free field Max. Calculated SPL(peak) of >=124db or better. The loudspeaker should have a nominal impedance of 8 ohm or more. The loudspeaker shall be enclosed in a Baltic birch plywood enclosure with perforated steel grille. Complete with installation as per the site requirement.	2	Nos.	275000	550000.00	302500	605000
4.48	Active Portable loudspeaker system with 2 combo XLR-1/4" inputs, 3.5 mm input, Bluetooth inputs and 1/4" TRS line output with 11 hours of play time using the rechargeable lithium ion battery with Freq Response 62Hz - 17kHz and 109dB peak SPL, 120 H x 50V Nominal coverage.	2	Nos.	125000	250000.00	137500	275000
4.49	Two-way Small Format high SPL IP55 rated (as per IEC 60529) all weather surface mount loudspeaker. The loudspeaker shall meet the following performance criteria: Frequency Range (-10 dB) of 90 Hz - 18 kHz or better; Nominal Dispersion : 100°H x 100°V; Power handling of 400W peak or more; Sensitivity : 90 dB and the Max SPL : 116dB Peak or better; Nominal impedance of 8 ohms and Integral multi-tap Transformer with selectable tap settings of 10/20/40/80 W @ 70V & 100V. The loudspeaker system shall be comprised of a Powder-coated finish stainless steel grille with Two-part spray polyurea coating Enclosure; Single 5.25-inch woofer; Single 2-inch voice coil high-frequency compression driver; U bracket shall be included.	2	Nos.	90000	180000.00	99000	198000
4.5	Class D amplifier with 2 x 600 W Load-independent outputs deliver full channel power to either low-impedance (4-8 Ω) or high-impedance (70/100V) loads without bridging. Amplifier shall have frequency response of 20 Hz to 20 kHz (+/- 1 dB) for Lz mode, with THD+N at rated power less than 0.04%. The amplifier shall meet or exceed the following performance specifications: channel separation (crosstalk) greater than 80 dB below rated power at 1 kHz. The amplifier shall have 2 line-level inputs with selectable input sensitivity settings (-10 dBV, 4 dBu and	2	Nos.	138529	277058.00	152381.9	304763.8

	14 dBu) for balanced line-level inputs (6-pin Euroblock connector) and possibility of 4 or more no. of digital Audio channels. The amplifier shall offer a master mute connection for use with external dry contacts, normally open or normally closed, to mute all outputs of the amplifier.						
4.51	Class D amplifier with 2 x 1000 W Load-independent outputs deliver full channel power to either low-impedance (4-8 Ω) or high-impedance (70/100V) loads without bridging. Amplifier shall have frequency response of 20 Hz to 20 kHz (+/- 1 dB) for I.Z. mode, with THD+N at rated power less than 0.04%. The amplifier shall meet or exceed the following performance specifications: channel separation (crosstalk) greater than 80 dB below rated power at 1 kHz. . The amplifier shall have 2 line-level inputs with selectable input sensitivity settings (-10 dBV, 4 dBu and 14 dBu) for balanced line-level inputs (6-pin Euroblock connector) and possibility of 4 or more no. of digital Audio channels. The amplifier shall offer a master mute connection for use with external dry contacts, normally open or normally closed, to mute all outputs of the amplifier.	1	Nos.	180265	180265.00	198291.5	198291.5
4.52	Digital Sound Processor with 8 Mic/Line inputs or more & 8 analog outputs or more, 24 Bit A-D and D-A Converters; Sampling Rate: 48 kHz; THD: < 0.002 %; Channel Separation (Crosstalk): < 105 dB; Frequency Response 20 Hz - 20 kHz; Signal-to-Noise Ratio 80 dB; Dynamic Range: > 115 dB; 5 Control Inputs and Outputs; RS-232 and Ethernet Port for third party Control and Monitoring; inbuilt DSP features like Input Equalizers, Router, Band Pass filter, Output Equalizer, Delay, Limiters, gates, Source selectors etc.	1	No.	284754	284754.00	313229.4	313229.4
4.53	Networked and programmable controller; Power supply requirement of 15-24 VDC, 300mA; Four rotatory encoders with circular LED rings for managing gain setting or scene selection; Fifth encoder provides control over programmed scenes or presets; Two line by 40 character blacklit LCD provides names of the system elements they are controlling.	1	No.	149778	149778.00	164755.8	164755.8
4.54	Gooseneck mic with mute button	2	Nos.	35600	71200.00	39160	78320
4.55	Wireless Lapel mic	2	Nos.	74500	149000.00	81950	163900
4.56	Wireless Handheld Mic set	2	Nos.	74500	149000.00	81950	163900
4.57	Black anodized, table mic stands, EIC approved	2	Nos.	25600	51200.00	28160	56320
4.58	Mixer for live stage mics as per the no. of mics	1	No.	68556	68556.00	75411.6	75411.6
4.59	2 core 14 AWG/2.5 Sq mm, Twisted, unshielded Speaker cable with stranded annealed bare copper conductors, Semi-rigid PVC insulation, NEC CL3R, CEC CMG, RoHS compliant	350	mttr	205	71750.00	225.5	78925
4.6	2 core Twisted, shielded balanced Audio and control cable with 22AWG or better 7 strand annealed bare copper conductors, Semi-Rigid PVC insulation, Riser rated PVC jacket UL 444, UL 13 CMR rated	350	mttr	72	25200.00	79.2	27720
4.61	Floor Box for Stage	2	Nos.	5500	11000.00	6050	12100
4.62	Micro port connectivity boxes	2	Nos.	4500	9000.00	4950	9900
4.63	Connectors like LAN, CAT 6Shielded, RCA, XLR etc	1	Lot	150000	150000.00	165000	165000
4.64	12U Rack	1	no	25000	25000.00	27500	27500
4.65	MAIN CURTAIN: Providing & Fixing of Main Curtain in Hitech Velvet Cloth with lining cloth 50% gatherings. Satin Border at bottom of 6" and 4" in two pieces (Centre Parting) size 38' x 17'6"	1	No.	285000	285000.00	313500	313500

4.66	MAIN CURTAIN FRILL : Providing & Fixing of main Curtain Frill in same cloth as main Curtain 50% gatherings & Golden Fringe at Bottom of the Frill size 38' x 4'	1	No.	47500	47500.00	52250	52250
4.67	WINGS: Providing & Fixing of wings in Alluminium Box pipe 70mm X 40mm with two intermediate supports. Rollers to slide the wings. Providing of Alluminium channels to slide the wings. Fixing of Cloth on both sides. Rollers at bottom Size (16' X 4')	6	No.	52500	315000.00	57750	346500
4.68	MID & BACK CURTAIN : Providing & Fixing of Mid & Back Curtain in Fire Retardant casement cloth stretched Flat of size 30' x 16'. Fixed to electrical hoisting mechanism.	2	No.	51500	103000.00	56650	113300
4.69	CYCLORAMA: Providing & Fixing of cyclorama in Bombay Dyeing cloth of size 30' x 16' stretched flat. Fixed to Electrical hoisting mechanism.	1	No.	47500	47500.00	52250	52250
4.7	FRILLS: Providing & Fixing of Frills in Drill cloth with 50% gatherings fixed to Grid in 25mm G.I. Pipe suspended by wire rope Size (45' X 4')	3	No.	18500	55500.00	20350	61050
4.71	LIGHT BARS : Providing & Fixing of Light bars in 40 mm G.I. Pipe (Dual Barred) 'B' Class with Brackets. M.S. Tray for Electric wire. (Size 100mm X 50mm) a) 30 Fts. 3 on stage	3	No.	52500	157500.00	57750	173250
4.72	CENTRE PARTING MECHANISM : Providing & fixing of Centre Parting Mechanism fixed with 1 H.P. 3 Phase Motor Aluminium C Track, 3mm Steel wire rope, runners, M.S. Drum, Reduction Pulley Sets. Wooden Panel, M.S. Angle stand 500 x 50mm (Siemens) contactors, Push Button sets, limit switches, electric wire 2.5 sq. m.m. 7 core as required, a. Main Curtain	1	Nos.	285000	285000.00	313500	313500
4.73	ELECTRIC HOISTING MECHANISM : Providing & Fixing of hoisting Mechanism for- Light Bars (3), Cyclorama (1), Back Curtain (1), Mid Curtain (1), Frills (3) FOH, with following details. a.) 2 H.P. 3 Phase motor (Navjyot make) b.) Gear Box 40:1 (Elecon) c.) 100mm Pulley Set with Bearings one way two way, three way, four way, five way d.) Guide Pulley sets e.) 6mm steel wire rope. Approx 400ft f.) 75mm x 50mm M.S. Stand g.) M.S. Drum 9" dia h.) Limit switches with Plate & Rods i.) Electric wire 2.5 sq. mm 8 core j.) Panel Board with siemens/L&T Contactors k.) Pedestal Bearing 2 Nos. l.) G.I. Pipe 25mm	9	Nos.	275000	2475000.00	302500	2722500
4.74	PIPE GRID: Providing & Fixing of Pipe Grid to be suspended from ceiling in M.S. Flat of 40mm x 5mm. The grid to be provided G.I. Pipe of 50mm 'B' Class. M.S. 'C' Channel of 75mm x 40mm on three sides. Painting etc complete. Size (38' x 30')	100	Sq.Mt.	6900	690000.00	7590	759000
4.75	Providing and Fixing LED PAR 102as per design and drawing etc complete	24	Nos	8250	198000.00	9075	217800
4.76	Providing and fixing the LED sharp lights as per design and drawing etc complete.	2	Nos	102850	205700.00	113135	226270
4.77	Providing and Fixing LED fresnel spot light 200 w. as per drawing etc complete.	2	Nos	73425	146850.00	80767.5	161535
4.78	Providing and fixing a LED Blinder 400 watt as per drawing etc complete.	6	Nos	38720	232320.00	42592	255552
4.79	Providing and fixing a Four gold LED PAR FOH. As per design etc. complete	6	Nos	6490	38940.00	7139	42834
4.8	LED profile light	2	Nos	28820	57640.00	31702	63404

4.81	LED follow light DMX	1	No	53900	53900.00	59290	59290
4.82	LED PAR RGBW	6	Nos	10450	62700.00	11495	68970
4.83	MINI perf board console AVO LIGHT CONSOL	1	No	64900	64900.00	71390	71390
4.84	Supply laying in pvc. Conduit 2 core XLR cable. Approx.	300	Mtrs	161	48300.00	177.1	53130
4.85	Supply fixing XLR or socket male & female 1 No with m.s.bos	16	Nos	1595	25520.00	1754.5	28072
4.86	Supply,fixing splitter 8 way.	1	No	19800	19800.00	21780	21780
4.87	SITC of G.I pipe earth electrode,backfill compound, chamber cover	1	No	21450	21450.00	23595	23595
4.88	SITC of main L.T. panel 1 No 100 A 4 pole MCCB 25 ka 1 No 100 A TPN bus bar allu. 3 Nos 40 A 4 pole MCB 10 ka 6 Nos 20 A 2 pole RCBO 30 mA 39 Nos 10/16 A SPMCB 10 ka 1 Set R.Y.B Lamps, Volt meter, Ammeter, KWH meter floor mounting type with stand below, top and bottom cable entries, powder coated paint, vermin proof, door lock, earth studs 2	1	nos	21450	21450.00	23595	23595
4.89	Supply,fixing 16 A / 6 A socket Anchor brand with m.s.bos. Section as per requirement etc complete.	36	nos	688	24768.00	756.8	27244.8
4.9	Supply,fixing circuit wiring 3 Nos 2.5 sq mm. copper FRLSHS, ISI wires in rigid, PVC MMS, ISI conduit. Approx.	1200	nos	180	216000.00	198	237600
4.91	Providing different types of books such as historical, mythological, educational, current affairs, general knowledge, dictionary, Balasaheb Thackeray's journey and many types at Library area (1100 BOOKS)	1	SET	800000	800000.00	880000	880000
4.92	Supplying and providing synthetic carpet of 450 gsm of approved colour with pesting on surface as per direction of engineer incharge complete	380	Sq.Mt.	1250	475000.00	1375	522500
4.93	FRP design as per Architect and Vendor Specification / Design FRP with approved paint finish ,Providing, supplying and fixing of FRP item -of required shape and size as per the specifications by the vendor and design provided by the architect .The cladding should withstand external pressure with interlocking arrangements, with lifting eyebolts And as per specifications mentioned in the Technical specifications and product features excluding GST). children zone-peda	1	NOS	125000	125000.00	137500	137500
4.94	FRP design as per Architect and Vendor Specification / Design FRP with approved paint finish ,Providing, supplying and fixing of FRP item -of required shape and size as per the specifications by the vendor and design provided by the architect .The cladding should withstand external pressure with interlocking arrangements, with lifting eyebolts And as per specifications mentioned in the Technical specifications and product features excluding GST)-sounds of jungle tree	1	NOS	125000	125000.00	165000	165000
4.95	FRP design as per Architect and Vendor Specification / Design FRP with approved paint finish ,Providing, supplying and fixing of FRP item -of required shape and size as per the specifications by the vendor and design provided by the architect .The cladding should withstand external pressure with interlocking arrangements, with lifting eyebolts And as per specifications mentioned in the Technical specifications and product features excluding GST)-Apollo Prop	1	NOS	75000	75000.00	82500	82500

4.96	FRP design as per Architect and Vendor Specification / Design FRP with approved paint finish ,Providing, supplying and fixing of FRP item -of required shape and size as per the specifications by the vendor and design provided by the architect .The cladding should withstand external pressure with interlocking arrangements, with lifting eyebolts And as per specifications mentioned in the Technical specifications and product features excluding GST-Astronaut costume	1	NOS	100000	100000.00	110000	110000
4.97	FRP design as per Architect and Vendor Specification / Design FRP with approved paint finish ,Providing, supplying and fixing of FRP item -of required shape and size as per the specifications by the vendor and design provided by the architect .The cladding should withstand external pressure with interlocking arrangements, with lifting eyebolts And as per specifications mentioned in the Technical specifications and product features excluding GST-solar system planets	1	NOS	125000	125000.00	302500	302500
4.98	Providing and Fixing brass work for the balasaheb Thackrey cut out & project Title letter box at main entry of structure etc complete	1	NOS	150000	150000.00	165000	165000
				484312445.94		567116525.3	

नमूद कामाकरीता मे. शायोना कॉर्पोरेशन यांनी वरील दराची निविदा सादर केली आहे. परंतु सदरचे दर हे अंदाजपत्रकिय दरोक्षा जास्तीचे असल्याने कंत्राटदार यांनी दरवाढाघाटीनंतर 16.32% दर कमी करून दिलेले असून त्यानुसार सदर निविदा रक्कम ही रु.40,53,15,728/- एवढी होत आहे.

सदर कमी केलेल्या दरानुसार निविदा रक्कम रु.40,53,15,728/- एवढी होत असून मे. शायोना कॉर्पोरेशन यांची मंजूर रकमे एवढीच निविदा रक्कम होत आहे. नगरविकास विभागाकडील शासन निर्णय व मा. जिल्हाधिकारी ठाणे यांचेकडील प्रशासकिय मान्यतेच्या आदेशात नमूद केल्यानुसार वितरीत निधी व्यतिरिक्त उर्वरीत निधी प्रतिवर्षी वितरीत करण्यात येणार असल्याने त्यानुसार प्राप्त तरतूदीच्या मर्यादेत टप्प्याटप्प्याने कामे हाती घेण्यात येतील ही अट नमूद करून कार्यदेश देण्यात येतील.

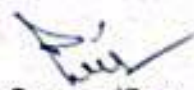
नगरविकास विभाग, शासन आदेश क्रमांक एमसीओ-2020/प्र.क्र.71 (भाग-2)/नवि-14 दि.26 ऑगस्ट 2022 अन्वये महाराष्ट्र महानगरपालिका अधिनियम तरतुद व विशेषतः कलम 452 अ च्या (1 अ) व (1 ब) मधील तरतुदीनुसार मा.आयुक्त यांची प्रशासक पदी नियुक्ती करण्यात आली असुन त्यांना अधिनियमातील सर्व अधिकार प्राप्त झाले आहेत. सदर अधिकारात वरील कामांस महाराष्ट्र महानगरपालिका अधिनियम मधील कलम 73 (क) नुसार मान्यता देण्यास शिफारस आहे.

मा. आयुक्त यांच्या मान्यतेने

प्रशासकीय
मा. आयुक्त यांच्या मान्यतेने
दिनांक 19/08/2024 ते 2.44 वा
पर्यंत ने. 3 रु. 800 रु. 2024-25


लिपिक

सचिव विभाग
मिरा-भाईंदर महानगरपालिका


(दिपक खांबित)
शहर अभियंता
मिरा-भाईंदर महानगरपालिका

मिरा-भाईंदर महानगरपालिका

प्रशासकीय ठराव दिनांक २७ | ०३ | २०२५

प्रकरण क्र. (४५९) :- निविदेस मान्यता देणेबाबत.

ठराव क्र. (४५९)

अ.क्र	टेंडर आय डी	कामाचे नाव	अंदाजित खर्च	निविदाधारकाचे नाव
1	2	3	4	5
1.	1113280_1	मिरा भाईंदर महानगरपालिका हद्दीमध्ये शिवसेनाप्रमुख स्व. बाळासाहेब ठाकरे कलादालनाची कामे करणे. (मुलभूत सोई सुविधांचा विकास)	रु.40,53,15,728/-	मे. शायोना कॉर्पोरेशन मे. के.ई इन्फ्रास्ट्रक्चर प्रा.लि.

Sl. No.	Item Description	Qty	Units	Ms. Shayona Corporation		M/S. K E Infrastructure Pvt Ltd	
				Quoted Rate	Quoted Amount	Rate	Amount
1.01	Excavation for foundation of structure as per drawing and technical specifications including setting out, construction of shoring, brushing, removal of stumps and other deleterious matter, dressing of side and bottom and back filling with approved material etc. complete. (in marshy soil by mechanical means)	614.25	Cubic Metre	860	528255.00	946	581080.5
1.02	Removing lime or lean cement concrete including stacking the spoils as directed with all leads, lifts etc. complete	81.90	Cubic metre	586	47993.40	644.6	52792.74
1.03	Removing rich mix cement concrete including stacking the spoils as directed with all leads, lifts etc. complete	12.6	Cubic metre	977	12310.20	1074.7	13541.22
1.04	Dismantling the R.C.C. Work 1:2:4 and sorting out the materials such as steel etc. as directed and stacking them within the specified lead as directed etc. complete	245.7	Cubic metre	1524	374446.80	1676.4	411891.48
1.05	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m) By Mechanical Means	614.3	Cubic Metre	400	245720.00	440	270292
1.06	Excavation for foundation in earth, soils of all types, sand, gravel and soft murum, including removing the excavated material upto a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5m to 3.0m) By Mechanical Means	614.3	Cubic Metre	400	245720.00	440	270292
1.07	Excavation for foundation in hard murum and boulders including removing the excavated material up to a distance 50 metres, beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5m) By Mechanical Means	614.3	Cubic Metre	400	245720.00	440	270292
1.08	Excavation for foundation in Hard murum and boulders including removing the excavated material upto a distance of 50 metres, beyond the building area and stacking and spreading as directed, dewatering,	614.3	Cubic Metre	400	245720.00	440	270292

	preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5 m to 3.0 m.) By Mechanical Means						
1.09	Excavation for foundation in Soft rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 metres beyond the building area and stacking as directed, including dewatering, preparing the bed for the foundation and necessary back filling with available earth /murum, ramming, watering including shoring and strutting etc. complete (lift upto 1.5m) By Mechanical Means	614.3	Cubic Metre	750	460725.00	825	506797.5
1.1	Excavation for foundation in Soft rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 metres beyond the building area and stacking as directed, including dewatering, preparing the bed for the foundation and necessary back filling with available earth/murum, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5m To 3.0 m.) By Mechanical Means	122.9	Cubic Metre	750	92175.00	825	101392.5
1.11	Item No 03 Transporting Of Excavated Materials Lead 20.00 K.M	4148.55	Cum	150	622282.50	165	684510.75
1.12	Dewatering on BHP basis by using water pump including diversion of stream, providing cofferdams, earthen bunds etc. as may be necessary for foundation and other parts of the the works and pumping out water during and after excavation as may be required by using 3.0 BHP pump etc. complete. (prior approval of Superintending Engineer will be necessary)	5040	Hour	250	1260000.00	275	1386000
1.13	Dewatering on BHP basis by using water pump including diversion of stream, providing cofferdams, earthen bunds etc. as may be necessary for foundation and other parts of the the works and pumping out water during and after excavation as may be required by using 5.0 to 9.0 BHP pump etc. complete. (prior approval of Superintending Engineer will be necessary)	1890	Hour	250	472500.00	275	519750
1.14	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete. SSR 21.38 / 201	245.7	Cum	3240	796068.00	3564	875674.8
1.15	Providing and laying Cast in situ/Ready Mix cement concrete in M20 of trap/ granite/ quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) (PCC) SSR 24.10 / 227	81.90	Cum	17000	1392300.00	18700	1531530
1.16	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc. complete. SSR 21.37 / 201	1050.00	Cum	150	157500.00	165	173250
1.17	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete. SSR 21.36/195	1050.00	Cum	2450	2572500.00	2695	2829750

1.18	Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C columns and steel stanchion etc. columns as per detailed designs and drawing or as directed including Steel centering formwork, cover blocks laying/pumping, compaction finishing the formed surface with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) SSR 25.15/231	136.50	Cum	19500	2661750.00	21450	2927925
1.19	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. pards of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	191.1	Cum	24500	4681950.00	26950	5150145
1.2	Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/ pumping, compactionand roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	27.05	CUM	24500	662725.00	26950	728997.5
1.21	Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc) SSR 25.14 / 237	109.20	Cum	24500	2675400.00	26950	2942940
1.22	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pards, copings, fans, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete. SSR 26.33 / 245	139.15	MT	105000	14610750.00	156200	21735230
1.23	Providing and applying Anti corrosive treatment to reinforcement as per cement polymer composite coating (C.P.C.C.) method developed by C.E.C.R.I. including cleaning the bar by means of any established mechanical or manual method for removing rust and	139.1544	MT	5500	765349.20	13036.1	1814030.67

	deleterious material, applying rapid setting primer and cement polymer sealing coat of approved and licensed by CECR including redoing the process if damage occurs during handling, stacking etc. complete. (With prior approval of SE)						
1.24	Providing filling of Micro-concrete and 10mm aggregate (1:1) including scarificial leak proof MS shuttering includes the cost of hire charges of all machineries, barge, boat, cost of all tools and all labour charges etc., complete.	1.68	Cum	320000	537600.00	352000	591360
1.25	Providing and laying weep holes of 100 mm diameter PVC pipes as per drawing for abutment returns, return walls etc. Complete.	302.4	Running Metre	560	169344.00	616	186278.4
1.26	Providing and laying of filter media with granular materials/ stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2 of MoRTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition as per drawing and technical specifications etc. complete.	245.7	cum	4000	982800.00	4400	1081080
1.27	Providing and fixing in position steel fibre reinforced concrete (SFRC) frame and covers of approved make including, 0.90 x 0.60 m in size loading, unloading, transportation, all taxes etc. complete as directed by Engineer-in-charge (20 tonnes capacity)	42	Nos	14200	596400.00	15620	656040
1.28	Providing and laying concrete pipes of I.S.NP. class of 150mm diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete.	21	Running Metre	1250	26250.00	1375	28875
1.29	Providing and laying concrete pipes of I.S.NP. class of 225mm diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete.	21	Running Metre	1450	30450.00	1595	33495
1.3	Providing and laying concrete pipes of I.S.NP. class of 300mm diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete.	21	Running Metre	1450	30450.00	1595	33495
1.31	Providing and casting in situ or precast tapering R.C.C. M-20 Barrier type Kerb without gutter (as per IRC861983) embedded 125mm below ground level over M-10 PCC finished neatly with C.M. 1:2, setting the same in C.M. 1:2, including the required excavation in any strata and removing the excavated stuff any where in city and redoing the surface as specified and directed by Engineering In-charge. Using Concrete Batching and Mixing Plant	136.5	Cubic Metre	27500	3753750.00	30250	4129125
1.32	Providing and Fixing Processed Stone Cladding on wall surface /plywood surface. RCC pardi /Wall and all type of Interior, Exterior Compound wall and Gate etc. of cladding processed stone with material of Processed clay, Wooden chips, Silica sand, Cement, GFRC admixtures, Colour pigments, Fiber up to thick of 230mm/ 25mm including scaffolding, fixing of screw, etc. (As directed by Engineer in Charge)	2012	Sqm	11500	23138000.00	12650	25451800
1.33	Extra for providing additional thickness of brickbats over 100 mm in 1:5 c.s. either due to location of rain water pipes or due to increase in the travel length of flow of rain water or brick bats required in the sunk portion of baths, W.C.s nahani etc. The rate includes for fixing brickbats in C.M., with waterproofing compound as per specification as directed.	413	Cum.	15500	6401500.00	17050	7041650
1.34	Providing and applying one pack bonding coat between concrete members like RCC slabs, columns, beams, chajjas, pardi set and cement mortar plaster using Bonding Agent of approved make & approved by Engineer incharge. Clean the concrete surface thoroughly	573	Sqm	325	186225.00	357.5	204847.5

	to remove dust, dirt, grime, desludging oils and rub down to a clean surface. Apply Bonding agent of approved make & approved by Engineer incharge by spray on the entire concrete surface. Provide a lean cement-sand dash coat over the same. Allow the dash coat to set for around 24 hours. Further plastering as per specifications						
1.35	Providing and fixing polished natural stone tiles as specified below of approved quality, pattern and colour for dado including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in proportion 1:3, square cut top edge or chamfered top edge, grooving, moulding etc in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement or pigment mixed with cement, polishing, finishing, curing etc complete as directed by Engineer In Charge (Gangaw Granite or Equivalent)	462	Sqm	9650	4458300.00	10615	4904130
1.36	Providing & Fixing in position, Carpet more than 1200 gum, made with 100% stain proof fibres of approved make along with 5mm underlay as per Architectural & Acoustical Design & Instructions & Complete in all aspects including all materials labour, finishing etc complete	1247	Sqm	4450	5549150.00	4895	6104065
1.37	Providing leather finished polishing to Granite Stone slab by continuous grinding in 4 coats of different bits to receive rough and matt finish including buffing process before laying and fixing of stone as per drawing and design, including cleaning, washing and finishing etc. complete	1250.00	Sqm	756	945000.00	831.6	1039500
1.38	Providing wax polishing to floors and dado, preparing the surface, scaffolding etc. complete	2950.00	Sqm	463	1365850.00	509.3	1502435
1.39	Providing Mirror polishing to Kota Stone including using all necessary stones and equipments cleaning, washing etc. complete. For Flooring	503.00	Sqm	156	78468.00	171.6	86314.8
1.4	Providing Mirror polishing to Kota Stone including using all necessary stones and equipments cleaning, washing etc. complete. For Skirting	98.00	Rmt	83	8134.00	91.3	8947.4
1.41	Rounding the edge in half round shape of the stone work specified below including high gloss machine polishing as directed by Engineer In Charge a) Kota stone	138.00	Rmt	150	20700.00	165	22770
1.42	Rounding the edge in half round shape of the stone work specified below including high gloss machine polishing as directed by Engineer In Charge.c) Any type of Granite stone	500.00	Rmt	210	105000.00	231	115500
1.43	Champhering the edge of the stone work specified below including high gloss machine polishing as directed by Engineer In Charge a) Kota stone	500	Rmt	120	60000.00	132	66000
1.44	Champhering the edge of the stone work specified below including high gloss machine polishing as directed by Engineer In Charge.c) Any type of Granite stone	500	Rmt	190	95000.00	209	104500
1.45	Providing & making 5mm gap in flooring & dado by using Spacer and gap to be filled with epoxy polymer based grout of Bal Endura make to match the colour & shade of flooring tiles as per instruction of Engg. In charge etc complete.	1823.096 165	SMT	750	1367322.12	825	1504054.336
1.46	Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted / welded connections without connecting plates, braces etc. and including one coat of epoxy paint and over it two coats of oil painting of approved quality and shade etc. complete.	15.95	MT	345000	5502750.00	379500	6053025
1.47	Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/ structure, including additional rows of scaffolding in stepped manner as	94114	Sqm	650	61174100.00	715	67291510

	perrequirement of site, madewith 40mmdiaM.S. tube, placed 1.5metre centre to centre, horizontal & vertical tubes jointwith cup & locksystemwithM.S.Tubes,M.S. tube challis,M.S.clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it there after. The scaffolding system shall best if fened with bracings, runners, connecting with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the work men etc., complete as per directions and approval of Engineer-in-charge.						
1.48	Providing & fixing in position 35 mm thick 1st quality water proof Single Leaf Flush Door for w.c. with 1mm thick laminate on both sides with 12x35mm lipping patti on all egdes. Rate is Inclusive of s.s.fixtures & fittings, such as handles on both sides, tower bolts, locking arrangement,, door stopper of make (Dorma,Geze,Haffe) 450 x 150mm aluminum ventilation grill powder coated, as per architect's detailed drg and design etc complete	41	Sqm	28500	1168500.00	31350	1285350
1.49	Single Leaf Flush Door - Providing and fixing of single leaf flush door with, shutter to be made of 35 mm thick marine grade block board core with teak wood lipping patti & 1 mm thick approved decorative laminate finish on both faces. All exposed T.W. surfaces to be painted in 2 coats of flat enamel paint of approved shade over 1 coat of primer of approved make including prepatation of surface. All surfaces of frame, in contact with brock masonry or concrete should be tar painted. (Black Japan). All other necessary fittings and fastenings to be of chrome finish brass. (Unless otherwise mentioned in the drawing)	26	Sqm	28500	741000.00	31350	815100
1.5	Fire rated Double leaf Door - Laminate Finish: Providing & Fixing of Wooden Fire door without Panic Bar of approved make and of required size, 120 minutes fire rating, integrity and insulation in accordance with the criteria of BS 476 : Part 22 : 1987 and report 212 (1)FR/2003; Insulation on door leaf only. Tested at Fire Research Laboratory, Central Building Research Institute, Roorkee with standard heating conditions as specified in IS : 3809-1979 and BS : 476 part 20 & 22, 1987 to achieve the required integrity & insulation (i.e. to restrict the heat radiation, temperature rise on the non fire side to the maximum of 140 degree Centigrade above the ambient temperature on the unexposed surface of the shutter). Red Miranti Hard wood frame of section 145mm x 70mm with Intumescent strip (Imported) to take care of Hot and cold smoke of size 10mm x 2mm x 2Nos. Concealed in the grove of the frame and 55mm thick single leaf shutter made out of perimeter railing of Red Miranti wood of size 100mm x 20mm and promina 60.9mm thick Calcium Silicate Board Fire Retardant compound on each side coated with Intumescent sealant and faced with 4mm thick marine ply with Fire and smoke Intumescent Seal of size 20mm x 2mm x 1 No., mounted in the grooves in the shutter on all sides except bottom with 10mm thick Hardwood beading on all side. The Fire Doors with frame will be as per IS: 3614 part 2 and BS: 476 part 20 at FRL. CBRI Roorkee with standard heating conditions as specified in IS: 3809 - 1979 and BS: 476 part 20 & 22 1987. The door shall be finished with 1 mm thick fire retardent laminate on both side etc., with approved Stainless steel fittings & Fixtures all complete to the entire specification as per Architect's Instruction FRD -2 SIZE- 1.250 x 2.350m as Directed by Engineer Incharge.	12	Sqm	45000	540000.00	49500	594000

1.51	Providing and fixing ISI marked double swing flush door shutters conforming to IS :2202 (Part I) Non-decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 30 mm thick including ISI marked Stainless Steel L- hinges with necessary screws Fittings & Fixtures per leaf SS kick plates on both sides of the door of 300mm height Heavy Duty satin finish butt SS Hinges (100mm x 75mm x 3mm in size) -4 nos. SS finished lever handle with mortise lock- 1 One Number Floor spring- 1 One Number 100mm x 100mm safety glass at the specified location	3.168	Sqm	13125	41580.00	14437.5	45738
1.52	Supply, installation, testing and commissioning of extruded aluminium powder coated linear 8" Grilles for Supply /Return grill without volume control dampers.	2.86	SMT	11752	33610.72	12927.2	36971.792
1.53	Supply & Installation laminate 1mm thk both side laminate hydraulic pressed by machine make century virgo Or Equivalent as directed by Engineer in charge etc completed	161.57	SMT	3400	549338.00	3740	604271.8
1.54	Supply & Installation SS ball bearing butt hinges 5" each door make (Dorma, Geze, Hafele) as directed by Engineer in charge etc completed	136	nos	542	73712.00	596.2	81083.2
1.55	Supply & Installation Surface mounted door closer With standard arm size 2 each door make (Dorma, Geze, Hafele) as directed by Engineer in charge etc completed	34.00	nos	4902	166668.00	5392.2	183334.8
1.56	Supply & Installation Pull handle back to back fixing each door make (Dorma, Geze, Hafele) as directed by Engineer in charge etc completed	68.00	nos	1806	122808.00	1986.6	135088.8
1.57	Supply & Installation autodeep seal each door make (Dorma, Geze, Hafele) as directed by Engineer in charge etc completed	34	nos	4730	160820.00	5203	176902
1.58	Supply & Installation mortise Cylinder dead lock back, set, 24mm forend With Euro profile double cylinder keyed Diff. Door lock 1 each door make (Dorma, Geze, Hafele) as directed by Engineer in charge etc completed	17	nos	3223	54791.00	3545.3	60270.1
1.59	Supply & Installation 10mm thk rod SS tower bolt 4 each door make (Dorma, Geze, Hafele) as directed by Engineer in charge etc completed	68	nos	671	45628.00	738.1	50190.8
1.6	Making holes in 75 mm to 200 mm brick/concrete/rubble walls for drainage pipes, fittings, etc. and making good the same in cement mortar 1:3 or cement concrete 1:2.4 & finishing on both sides with cement plaster and 3 coats of white or colour wash as directed by Engineer in charge etc. complete	100	Nos	2838	283800.00	3121.8	312180
1.61	providing and fixing RCC CHAMBER COVER 900*450 size capacity 10MT /Sqm as per instruction by engineer incharge	30	Nos	17500	525000.00	19250	577500
1.62	Compacting the hard murum side widths including laying in layers on each side with power roller including artificial watering etc. complete	27060.00	Sqm	50	1353000.00	55	1488300
1.63	Providing and laying wedge shear elemental layer (WSEL) by using rubble stone of size 15 to 20 cm thick in single layer of 230 mm including packing the same with 20 mm to 40 mm thick aggregates (normal size) and using stone powder of 40 mm to 50 mm thick on surface and watering & compacting by vibratory roller confirming layer thickness of minimum 200 mm and as directed by Engineer - in - charge etc complete.	2706.00	Cum	4000	10824000.00	4400	11906400
1.64	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting with Intelligent Compactor with compaction analyzer and VSat attachment to the required density. By Manual Means Grading II (Using Screening Type B (11.2 mm) Aggregate)	676.50	Cum	6500	4397250.00	7150	4836975

1.65	Providing and Laying M60 grade cement concrete of approved mix design with avg. Flexural strength of 4.4 MPa in 3 days from R.M.C. plant incld. use of micro silica/alcofine, approved make super plasticiser and retarder, fibrillated 100 % virgin polypropylene fibres, fly ash and transported by transit mixer and placing at work site. Compacting, finishing, initial curing by approved curing compound/ contractors water and tarring the sides of slab with hot bitumen as specified and as directed (w/c ratio 0.28 max.). (vatta for curing will be paid separately) for Ultra thin White Topping (UTWT) pavement. etc completed.	677.00	Cum	18500	12524500.00	26950	18245150
1.66	Green Cutting of construction & dummy joints of concrete grade M 40 and above (UTWT) pavement by mechanical means within 10 to 12 hrs after casting of bay / slab upto 1/3 rd depth of pavement and 5 to 6 mm wide as directed	19000.00	Rmt	160	3040000.00	176	3344000
1.67	Providing and Placing 5mm thick Thermocole in dummy and construction joints immidly after cutting of joints and removing the same before dressing of dummy and construction joint as directed	19000.00	Rmt	99	1710000.00	99	1881000
1.68	Providing and construction of cement vatta in C.M 1:10 at 0.6 M X 0.6 M c/c admeasuring 0.09 meter at bottom, 0.04 m at top and 0.075 m deep and maintaining the same throughout 7 days curing period and removing the same material as directed.	4510.00	Sqm	104	469040.00	114.4	515944
1.69	Sealing of M-35 & above new C.C. pavement dummy, transverse, longitudinal joints with hot rubberised sealing compound conforming to IS 1834-1984 after proper cleaning with compressed air, applying required primer & providing a layer of lime powder over hot sealing compound as directed. Sealing 5mm - 6 mm wide & avg. depth of 40 mm transverse & longitudinal joints	19000.00	Rmt	101	1919000.00	111.1	2110900
1.7	Providing and lyaing of hot applied thermoplastic compound 2.5mm thick White /Yellow including reflectorising glass beads @250 gms.per sqm area,thickness of 2.5mm is exclusive of surface applied glass bead as per IRC 35. The finished surface to be level, uniform and free from streaks and holes etc complete with 3 years guarantee	50.00	Sqm	1049	52450.00	1153.9	57695
1.71	Providing and fixing Speed Breakers of Size 350 W x 500 L x 50 H mm yellow black color as shown in the drawing with necessary fittings & fixtures as directed by EIC.	50	Rmt	5083	254150.00	5591.3	279565
1.72	Supplying and Fixing of Molded Shank Raised Pavement Markers / Cat's Eye made of polycarbonate and ABS moulded body and reflective panels with microprismatic lens capable of providing total internal reflection of the lightentering the lens faceandshall support a load of 16000 kg tested in accordance to ASTM D4280 Type Hand complying to Specifications of Category A of MORTH Circular No RW/5/1/33023/10-97DOIII Dt 11.06.1997. The height, width and length shall not exceed 50mm, 100mm and 102+/-2 mm and with minimum reflective area of 13 Sqcm one ach side and the slope to the base shall be 35+/-5 degree.The strength of detachment of the integrated cylindrical shanks , (of diameter not less than 19+/-2mm and height not less than 30+/-2mm) from the body is to be a minimum value of 500Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer. The contractor shall submit a two year warranty for satisfactory field performance including stipulated retro-reflectance of the reflecting panel, to the Engineer.	50	Nos	1176	58800.00	1293.6	64680
1.73	Design, supply & installation of 4 mm thick Aluminium Composite Panels (ACP) of Alcopla make or other equivalent approved make. material consisting of 3mm thick FR	6034	Sqm	12600	76028400.00	13860	83631240

	grade mineral core sandwiched between two aluminium sheets (each 0.5 mm thick. The fixing will be done fabrication comparable Duroi or other equivalent company Backup MS GI frame work, & aluminium frame along with buckler rod, Dow corning Silicon sealant etc. complete as directed by the engineer. The rates should include provide design alongwith shop drawings and getting approval from consultant ACP CLADDING						
1.74	Fire Sealant For Pipe And Duct Holes And Any Other. Supplying, Loading, Unloading, Installations, Testing, Commissioning of fire resistant mortar (20 kg) with fire resistance class S90 as per National Electrical Code (NEC) SP30-2011 suitable to seal the openings with all kinds of cables, pipes and cable support system in steel and aluminium and plastic profiles (Except hollow core conductors). The residual openings shall be closed with filler, as Directed by Engineer Incharge.	10	Cum	18828	188280.00	20710.8	207108
1.75	Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5 mm thickness in Global white color tile to be laid on grid systems with 15mm wide T - section flanges color white having rotary stitching on the Main Runner, 1200 mm and 600 mm Cross Tees. Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5 mm thickness in Global white color tile to be laid on grid systems with 15mm wide T - section flanges color white having rotary stitching on the Main Runner, 1200 mm and 600 mm Cross Tees. products approved as per GRHA and BS 476 etc. complete.	149	Sqm	4000	596000.00	4400	655600
1.76	Providing & Fixing Sliding window systems are manufactured from Rigid Thermo Vinyl Polymer (RTVP) Profiles suitable for tropical development. The profile are with multichambered construction. The nominal thickness of outer wall is 2 MM. The outer frame size is 105 x 52 mm Roller shutter frame 60 x 27 mm & Handle shutter frame 52 x 30mm. Glass panels used in window system shall be of 6mm thick clear float glass manufactured by Modiguard/Saint Gobin/Asahi or any other approved equivalent. The window systems are prefabricated in factory. All the corners of outer frame & shutter are fusion welded under pressure to a pre-determined temp. & time, as per the specification & design. The structural reinforcement chambers are not exposed to any drainage routing. The steel reinforcements are 1.5mm thk. hot dip galvanised & passivated for corrosion resistance & tropical development. Sliding track is made of UPVC profile, which is the part of outer frame for smooth movement of shutter. Sliding roller assembly consist of Nylon Roller & Zinc Alloy casting body. Mosquito frame is part of the sliding outer frame. Gaskets are made of Ethylene Propylene Dienermer (EPDM) which has good weathering properties & resistance to tear & decay to OZONE & U.V. exposure as per manufacturers specification as directed by Engineer in Charge etc. complete as Directed by Engineer Incharge.	19	Sqm	14000	266000.00	15400	292600
1.77	Providing and fixing SS Mosquito mesh in anodised (anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodising must be scaled by keeping the anodized section in boiling de-anodized water for a period of one hour) aluminium shutter fixed in sliding / openable / fixed windows conforming to IS:1948-1961 as per drawing and directed by Engineer In Charge (Note: For Aluminum Sections, total weight shall be upto 3.5 kg/sq.m.)	8	SQM	2600	20800.00	2860	22880

1.78	SITC of Elevio Automatic Elevator with- Rated capacity :- 20 Passenger/1360Kg Floors :- G+1 floor (2Stops/2 Landings) Travel :- 4.5 mtrs Location of Lift Machine:- MRL, Rated speed :- 1.0mps VS Car/Landing door clear opening of 1000 mm wide x 2000 mm high Clear Car size of 2000mm wide x 1550mm deep x 2200mm high Lift shaft available having clear size of 2940mm wide x 3440mm deep, 1550mm Pit depth, 4250mm Overhead.- CAR DOOR of Two Panel center opening auto door material- SS304 Stainless Steel in Hairline Finish [SSHL]. FLOORING-SS Chequered Plate. False Ceiling-Stainless Steel LIGHT & FAN-LED Light & Axial Flow Fan. C.O.P-- Illuminated Buttons with Colour LCD Display for Direction & Position Indicator. MAIN POWER SYSTEM-415 Volts, 3Phase, 50Hz A.C AUXILIARY SUPPLY SYSTEM-220/230 Volts, Single Phase, 50Hz A.C OPERATION-Simplex Full Collective System without attendant REQUIRED DRIVE--ACVVVF Advantages of CANBUS Controller,Three way Intercom,Car Ventilation, Battery Operated Emergency Alarm Bell & Light,Firemans Switch at main lobby,Overload Warning Indicator, Automatic Rescue Device (ARD),Full Curtain Infrared Door Safety,Machine Beam (ISMB),Floor Announcement System with Soft Music,Anti-nuisance,Car call Cancellation, Full Load Automatic Bypass,Direct Landing, Anti-stall timer Protection,Start Protection Control,Automatic power Light & Fan off Including required scaffolding & structural steel braces for erecting lift as per above specification obtaining required all necessary permissions of Lift inspector (PWD) to erect and complete the elevator work,Lisons to operate the elevators including all necessary charges payments for the same etc complete.	1	Job	4500000	4500000.00	4950000	4950000
1.79	SITC of Elevio Automatic Elevator with- Rated capacity :- 20 Passenger/1360Kg. Floors :- G+2 floor (3Stops/3 Landings). Travel :- 4.5 mtrs. Location of Lift Machine:- MRL. Rated speed :- 1.0mps VS. Car/Landing door clear opening of 1000 mm wide x 2000 mm high. Clear Car size of 2000mm wide x 1550mm deep x 2200mm high. Lift shaft available having clear size of 2940mm wide x 3440mmdeep, 1550mm Pit depth, 4250mm Overhead.-CAR DOOR of Two Panel center opening auto door material- SS304 Stainless Steel in Hairline Finish [SSHL]. FLOORING-SS Chequered Plate. False Ceiling-Stainless Steel LIGHT & FAN-LED Light & Axial Flow Fan. C.O.P-- Illuminated Buttons with Colour LCD Display for Direction & Position Indicator. MAIN POWER SYSTEM-415 Volts, 3Phase, 50Hz A.C AUXILIARY SUPPLY SYSTEM-220/230 Volts, Single Phase, 50Hz A.C OPERATION-Simplex Full Collective System without attendant REQUIRED DRIVE--ACVVVF Advantages of CANBUS Controller,Three way Intercom,Car Ventilation, Battery Operated Emergency Alarm Bell & Light,Firemans Switch at main lobby,Overload Warning Indicator, Automatic Rescue Device (ARD),Full Curtain Infrared Door Safety,Machine Beam (ISMB),Floor Announcement System with Soft Music,Anti-nuisance,Car call Cancellation, Full Load Automatic Bypass,Direct Landing, Anti-stall timer Protection,Start Protection Control,Automatic power Light & Fan off Including required scaffolding & structural steel braces for erecting lift as per above specification obtaining required all necessary permissions of Lift inspector (PWD) to erect and complete the elevator work,Lisons to	1	Job	4750000	4750000.00	5225000	5225000

	operate the elevators including all necessary charges, payments for the same etc complete.						
1.8	Providing & fixing European type white glazed earthenware water closet of perryware, Hindware or equivalent MAKE, wall hung closet to be used with cistern as per Model No. 89334 with size (H X W X P) 51cm x 35cm x 76cm pan including 'P' or 'S' trap with white bakelite including C.I. soil & vent pipes upto the outside Market Ratece of the wall and 100 mm dia. C.I. Plug bend, and flush bend and inlet pipe with brackets for fixing the cistern 40 mm dia. G.I. overflow pipe, painting of the exposed pipes and cutting and making good and floors as directed by architect & Engineer-In-Charge etc complete	21	Nos	23753	498813.00	26128.3	548694.3
1.81	Providing and fixing C.P. Two way B/B cock perryware make or equivalent Quattro collection (CAT.NO. T2334A1) including necessary sockets/union nut etc. complete.	26	Nos	3729	96954.00	4101.9	106649.4
1.82	Providing and fixing C.P. Auto Closing concealed urinal flush valve perryware make or equivalent lapis collection (CAT.NO. G2030A1) including necessary sockets/union nut etc. complete.	13	Nos	2973	38649.00	3270.3	42513.9
1.83	Providing and fixing C.P. Auto Closing concealed WC Dual flush valve perryware make or equivalent (CAT.NO. T3305A1/T3307A1) including necessary sockets/union nut etc. complete.	26	Nos	5509	143234.00	6059.9	157557.4
1.84	Providing and fixing 15 mm diameter PVC Aqua kraft type perryware make or equivalent make super jet spray with flange 2 in 1 faucet 1.50 metre long including all accessories etc complete	26	Nos	1781	46306.00	1959.1	50936.6
1.85	Providing & Fixing 46 x 30cm. Size of white glazed vitreous chinaware Square shape wash Basin of perryware, Hindware or equivalent MAKE, Model No. 895V wash basin Square overcounter including cold water concealed pillar taps, brackets, rubber plugs and brass chain, stop tap, chromium plate bottle trap and necessary pipe connections including UPAC waste pipe and trap upto the outside face of the wall, painted with two coats of white enamel paint over a coat of white enamel paint over a coat of anticorrosive primer, 32mm dia. PVC inlet connection etc. complete (32 mm dia. G.I. waste pipe is measured and will be paid separately) Rate to include making necessary connection to Nahani trap / waste as directed by architect & Engineer-In-Charge etc complete	22	Nos	17104	376288.00	18814.4	413916.8
1.86	Providing and fixing white vitreous urinal basin of perryware, Hindware or equivalent MAKE, Series white Model No. 0580 with standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required as directed by architect & Engineer-In-Charge etc complete	13	Nos	25000	325000.00	12289.2	159759.6
1.87	Providing and fixing C.P. wall mixer with provision for overhead shower with 115mm long bend pipe and wall flange jaquar or equivalent make continental (CAT.NO. T2316A1) including necessary sockets/union nut etc. complete	1	Nos	25000	25000.00	12866.7	12866.7
1.88	Providing and fixing SS 304 Towel rail (24") perryware, hindware or equivalent make including all fitting etc completed	1	Nos	1700	1700.00	1494.9	1494.9
1.89	Providing and fixing SS 304 Soap dish perryware, hindware or equivalent make including all fitting etc completed	3	Nos	1089	3267.00	1197.9	3593.7
1.9	Providing and fixing SS 304 Toilet paper holder perryware, hindware or equivalent make including all fitting etc completed	26	Nos	2500	65000.00	1818.3	47275.8
1.91	Providing and fixing SS 304 Towel ring perryware, hindware or equivalent make including all fitting etc completed	26	Nos	1250	32500.00	1057.1	27484.6
1.92	Providing and fixing SS 304 Twin robe hook perryware, hindware or equivalent make including all fitting etc completed	26	Nos	1250	32500.00	649	16874

1.93	Providing and fixing SS 304 Soap dispenser peryware, hardware or equivalent make including all fitting etc completed	22	Not	2500	55000.00	2241.8	49319.6
1.94	Providing & fixing of HM-MCP Call Point are an addressable manual break glass call point, simple rotary decade, switch at the rear of the unit for addressing, analogue addressable communications, Integral LED, EN54 approved. Make :- Honeywell Morley Model No. :- HM-MCP-FLEX	4	NOS	6803	27212.00	7483.3	29933.2
1.95	Providing & fixing of The Wall Mount sounder strobe integrates a 32 tone sounder and high quality strobe into one device. It is powered by the fire panel via the loop wiring. Control of the device is enabled using on-board switches, some of which can also be adjusted through SS Advanced Protocol. The device is installed simply by a twist fit onto the B501AP base. Supply Voltage: 15 to 29VDC (Non- isolation) 15 to 29VDC (Isolation) Standby Current: 120µA (Non-Isolation) 225µA (Isolation) Max current consumption sounder and strobe: 14.5mA (High Volume Tone 11 @15V) Max Sound Output 97dB(A) +/-3dB @1metre (High Volume, Tone 8 @24V) [Tone Dependant - Figure stated is based on high volume 970Hz continuous @24VDC] Make :- Honeywell Morley Model No. :- WSO- PR	7	NOS	10205	71435.00	11225.5	78578.5
1.96	Providing & fixing of addressable four-loop, fire detection system supports Morley protocol. It comes with two sounder circuits (1A max), a 2A power source, a general relay (Alarm and Fault), one programmable relay, a fixed auxiliary output and resettable 24V 250mA output, two keys and two inputs for programmable functions. It also includes a 6 * 40 LCD graphic display, an integrated USB port for PC programming and an RS485 port for repeaters. Total Loop Capacity (396 Detector +396 Devices) Networking up to 16 loops 6x40 characters, blue liquid crystal display with backlight illumination Configuration by keypad and PC 160 Fire Zones Fire, Fault and Auxiliary relays Loop-Battery calculator for reliable system design 7 day timer Onboard diagnostic EN54-2, EN54-4 LPCB approved Optional: 40, 80 or 160 zone alarm LEDs Make :- Honeywell Morley Model No. :- DX4C	1	NOS	417094	417094.00	458803.4	458803.4
1.97	STTC of 1100 V grade XLPE insulated, sheathed & steel armoured copper Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 2 C X 1.5 Sq. mm. A X F Y XLPE	850	RM	211	179350.00	232.1	197285
1.98	Providing & fixing of HM Series Advanced Intelligent Thermal Sensors are plug-in type fire sensors that use a single thermistor sensing circuit to provide early warning of developing fires, together with addressable communication with the fire panel. The HM-RHSE, HM- RHSE-I provides fixed 58°C and rate-of-rise (10°C / minute) temperature sensing (Class A1R). The HM-FHSE, HM-FHSE-I provides fixed 58°C temperature sensing (Class A1S). 15 to 32Vdc260µA at 24Vdc (no communications) 310µA at 24Vdc (LED blink enabled, once every 5s)3.5mA at 24VdcREMOTE OUTPUT VOLTAGEREMOTE OUTPUT	5	NOS	6803	34015.00	7483.3	37416.5

	CURRENT ADDITIONAL LOOP RESISTANCE USING THE B501AP22 5Vdc @ 24Vdc 10.8mA @ 24Vdc typ 20mohm (max 30 mohm) Make :- Honeywell Morley Model No. :- HM-RHSE						
1.00	Providing & fixing of addressable control modules for third party integrations, DIN rail mounting option • Surface mounting option • Tri-colour LED status indication • Built-in Short Circuit Isolators • Visible Address selector switches • LED status visible in 2 planes • Plug in connectors • Approved to GEA GEI 1-082 and CEA GEI 1-084 Mechanical Specifications Dimensions (H x W x D) 93 x 94 x 23 (mm) Weight Operating Temperature 110g -20 °C to +60 °C Part Numbers MI-DCMO Single channel addressable output module Electrical Specifications: Operating voltage 15 to 30 Vdc Standby current No comms 1 comms every 5 seconds with LED blink 310µA at 24 Vdc maximum 510µA at 24 Vdc maximum Terminal Wire 2.5 mm² maximum © 2020 Honeywell International Inc. For more information, https://honeywellbuildings.in Call: 1-800-103-0339 Email: HBT-Indiabuildings@honeywell.com Honeywell HBT India Buildings Unitech Trade Center, 5th Floor, Sector-43, Block C, Sushant Lok Phase - I, Gurgaon - 122 002 www.honeywell.com MI-DCMO ADDRESSABLE CONTROL OUTPUT MODULE Relative Humidity 0 to 95% maximum non-condensing Relay Form C Unsupervised Supervised 2A at 30 Vdc, resistive load 1.5A at 30 Vdc, resistive load Make :- Honeywell Morley Model No. :- MI-DCMO	34	NOS	5216	177344.00	5737.6	195078.4
2	Providing & fixing of input control module for third party integration, Single or dual inputs • DIN rail mounting option • Surface mounting option • Tri-colour LED status indication • Built-in short circuit isolators • Visible address selector switches • LED status visible in 2 planes • Plug in connectors • Approved to GEA GEI 1-082 and CEA GEI 1-08, Operating voltage 15 to 30 Vdc, standby current MI-DMMI 1 comms every 5 seconds with LED blink 510µA at 24 Vdc maximum No comms 310µA at 24 Vdc maximum Output Rating 5A at 30 Vdc, resistive load, 5A at 240 Vac, resistive load. Make :- Honeywell Morley Model No. :- MI-DMMI	14	NOS	5216	73024.00	5737.6	80326.4
2.01	Providing & fixing of loop powered fault isolator module for short circuit protection, DIN rail mounting option • Surface mounting option • Plug in connectors • Tri-colour LED status indication • Address selector switches visible in 2 planes • LED status visible in 2 planes • Approved to GEA GEI 1-082 and CEA GEI 1-08 Operating voltage Standby current 15	20	NOS	4762	95240.00	5238.2	104764

	to 30 Vdc200µA at 24 Vdc maximum fault detection delay 100 to 400 mSOn resistance 0.065Ω at 15 Vdc maximum© 2020 Honeywell International Inc. For more information, https://honeywellbuildings.in Call: 1-800-103-0339 Email: HBT-Indiabuildings@honeywell.com honeywell HBT India Buildings Unitech Trade Center, 5th Floor, Sector-43, Block C, Sushant Lok Phase - I, Gurgaon - 122 002 www.honeywell.com MI-DISOLATOR MODULES Part Numbers MI-DISO Addressable Isolator Module Terminal Wire 2.5 mm ² maximum Make :- Honeywell Model No. :- MI-DISO						
2.02	Providing & fixing of addressable optical smoke detectors, HM-PSE, HM-PSE-S2 has two integral red LEDs that provide 360° local visual indication of the device status. ELECTRICAL SPECIFICATIONS - NON-ISOLATED PRODUCT (HM-PSE-S2) HEIGHT OPERATING VOLTAGE RANGE MAXIMUM STANDBY CURRENT 52mm installed in B501AP base 260µA at 24Vdc (no communications) / 310µA at 24Vdc (LED blink enabled, once every 5s) 260µA at 24Vdc (no communications) 310µA at 24Vdc (LED blink enabled, once every 5s) LED CURRENT REMOTE OUTPUT VOLTAGE REMOTE OUTPUT CURRENT 3.5mA at 24V 22.5Vdc @ 24Vdc 10.8mA @ 24Vdc ADDITIONAL LOOP RESISTANCE USING THE B501AP typ 20mohm (max 30 mohm) ELECTRICAL SPECIFICATIONS - ISOLATOR VERSION (ONLY FOUND IN HM-PSE-S2-I) OPERATING VOLTAGE RANGE MAXIMUM STANDBY CURRENT ISOLATION CURRENT 15 to 28Vdc 200µA at 24Vdc (no communications) 300µA at 24Vdc (LED blink enabled, once every 5s) 15mA at 24Vdc MAXIMUM CONTINUOUS CURRENT REMOTE OUTPUT VOLTAGE ADDITIONAL LOOP RESISTANCE 1A (Switch Closed) 22.5Vdc @ 24Vdc typ 80 mohm @ 24V (max 170mohm @ 15V) ADDITIONAL LOOP RESISTANCE USING THE B501AP typ 20mohm (max 30 mohm)	137	NOS	5216	714592.00	5737.6	786051.2
2.03	Providing & fixing of addressable optical smoke detectors, HM-PSE, HM-PSE-S2 has two integral red LEDs that provide 360° local visual indication of the device status. ELECTRICAL SPECIFICATIONS - NON-ISOLATED PRODUCT (HM-PSE-S2) HEIGHT OPERATING VOLTAGE RANGE MAXIMUM STANDBY CURRENT 52mm installed in B501AP base 260µA at 24Vdc (no communications) / 310µA at 24Vdc (LED blink enabled, once every 5s) 260µA at 24Vdc (no communications) 310µA at 24Vdc (LED blink enabled, once every 5s) LED CURRENT REMOTE OUTPUT VOLTAGE REMOTE OUTPUT CURRENT 3.5mA at 24V 22.5Vdc @ 24Vdc 10.8mA @ 24Vdc ADDITIONAL LOOP RESISTANCE USING THE B501AP typ 20mohm (max 30 mohm) ELECTRICAL SPECIFICATIONS - ISOLATOR VERSION (ONLY FOUND IN HM-PSE-S2-I) OPERATING VOLTAGE RANGE MAXIMUM STANDBY CURRENT ISOLATION CURRENT 15 to 28Vdc 200µA at 24Vdc (no communications) 300µA at 24Vdc (LED blink enabled, once every 5s) 15mA at 24Vdc MAXIMUM CONTINUOUS CURRENT REMOTE OUTPUT VOLTAGE ADDITIONAL LOOP RESISTANCE 1A (Switch Closed) 22.5Vdc @ 24Vdc typ 80 mohm @ 24V (max 170mohm @ 15V) ADDITIONAL LOOP RESISTANCE USING THE B501AP typ 20mohm (max 30 mohm)	34	NOS	5670	192780.00	6237	212058

	every 5s)15mA at 24VdcMAXIMUM CONTINUOUS CURRENTREMOTE OUTPUT VOLTAGEADDITIONAL LOOP RESISTANCE1A (Switch Closed) 22.5Vdc @ 24Vdc typ 80 mohm @24V (max 170mohm @ 15V)ADDITIONAL LOOP RESISTANCE USING THE B501AP typ 20mohm (max 30 mohm)						
2.04	Providing & fixing of Two-Way Inlet Breeching, Body: Gun Metal or Aluminum Alloy or Cast Iron Inlet: Two Instantaneous with NRV, Outlet: 4" Flanged, Working Pressure: 10 Bar, Test Pressure: 23 Bar Make :- Newage	1	Nos.	18595	18595.00	20454.5	20454.5
2.05	Providing & fixing of following sizes of pipes conforming to IS-1239 with all accessories GI class'C' heavy grade MS fitting with welded joint shall be used including tees, elbows, reducers, union, flanges, rubber gaskets, GI nuts, bolts, washer including supporting/fixing the pipe on wall /ceiling with clamps, hangers (using anchor fasteners) as per specification.	38	Rmt.	3091	117458.00	3400.1	129203.8
2.06	Providing protection to embedded MS/ GI pipes and fittings by applying protective primer (@ 100 gm/sqm) thereafter wrapping 4 mm thick protection coating by thermo fusion process. Overlap shall be maintained at 15 mm. The application process shall be strictly according to manufacturer's specification.	28	Rmt.	644	18032.00	708.4	19835.2
2.07	Proving & fixing of High Power Amplifier high efficient Power/Booster amplifier provides audio signal amplification for public address and voice alarm system, It is reliable, efficient and light in weight 180-250 Volts AC 50 Hz Mains power supply0.1% THD + N @ 1 KHz Unbalanced Line in - LineOut 100 V signal input Signal input / OutputClass D >90% efficiency Amplifier topology 70 Hz to 20 KHz Frequency response 02 SNR (dB) Make :- Honeywell	1	Nos.	154516	154516.00	169967.6	169967.6
2.08	Proving & fixing of HN-CL06 has two spring clamps which can be used to easily fix the speaker into the false ceiling. It has three power taps (6/3/1.5W) with the built in 100V transformer. The round metal grille is well fitted in the front Make :- Honeywell Model No :- HN-CL06	86	Nos.	4366	375476.00	4802.6	413023.6
2.09	Supplying, erecting, testing and commissioning of multistrand Shielded bare copper conductor, transparent PVC insulated 2C x 1 sqmm speaker wire in provided trunking/conduit etc. as directed by Engineer in charge etc completed Blue colour	4500	RM	168	756000.00	184.8	831600
2.1	8 Zone Voice Alarm controller with built-in USB, MP3, AM/FM player, SD Card and 8 zone paging station, interface between field devices such as loudspeakers and local audio sources. EVACPRO-Q2 is a cost effective solution for requirements less than 16 loudspeaker circuits(zones). The unit has 16 emergency inputs (15 Zone wise & 1 for all zones) and 16 loudspeaker circuits (zones). The unit also can store and play prerecorded emergency messages to alert or evacuate the fire zones, 540 X 577 X 250 mmDimension (W x H x D)300msLine Input4 Pin DIN Condenser type with N/C contactMicrophone InputBalanced and unbalanced through phoenix connector - 1.2 VLine Output20Hz to 20 KHzFrequency Response0.01%Total Harmonic Distortion(THD)	1	Nos.	224494	224494.00	246943.4	246943.4
2.11	SITC 4U 600 x 600 perforated wall mounted racks with shelf, front glass door, Power strip, as directed by Engineer in charge etc completed	2	NOS	9524	19048.00	10476.4	20952.8
2.12	Providing & fixing of 1 Port- 10 Gig Module for Staking incls. Of required card, standard accessories & Hardware * Make :- D-Link	2	NOS	31747	63494.00	34921.7	69843.4

2.13	SITC 6 Core single mode fiber optic cable with 25MM PVC conduit as directed by Engineer in charge etc completed	200	RMT	279	55800.00	306.9	61780
2.14	SITC 6 Port wall mounted fully loaded LIU with SC coupling as directed by Engineer in charge etc completed	1	NOS	14343	14343.00	15777.3	15777.3
2.15	Supplying, erecting & terminating 10 m HDMI cord low voltage grade minimum 4k compliant to be laid in provided conduits with male/female 19pin HDMI connectors complete.	1	NOS	18147	18147.00	19961.7	19961.7
2.16	Supplying & erecting 4 TB internal Surveillance HDD suitable for SATA Port of NVR, interface transfer rate 6 GB/S, Maximum sustained transfer rate 150MB/Sec to 180MB/S, Drive bay supported 08+, Cameras supported up to 64, Cache (MB) 64, Load/Unload Cycle - 3000000, Work Load Rating per Year 180TB, MTBF 1000000 Hrs. HTTPS, RoHS, UL, CE certified, duly erected in position in provided NVR	2	NOS	48250	96500.00	53075	106150
2.17	Providing & fixing of 12-FIBER PORT SC-STYLE, SM, 19" RACK MOUNT LIU, LOADED WITH ADAPTER PLATE	1	NOS	19692	19692.00	21661.2	21661.2
2.18	Providing & Fixing of non intelligent Power distribution unit with 6 indian standar sockets (6/15Amp), 16A modular MCB, surge & over voltage protection, Fuse protection, 3 Mtr. Long power cable, Black in colour	2	NOS	19710	39420.00	21681	43362
2.19	Providing & Fixing Of 9u(550w X 5000 D)Mm Floor Floor Mount Closed Rack With Vertical Cable Management For Cable, Front Glass Door, Rear Perforated Door With Standard Accessories & 2 Nos. Vertical Power Strip.	3	NOS	35961	107883.00	39557.1	118671.3
2.2	Supplying and installing FR PVC sheathed HDPE insulated copper cat-6 cable suitable for networking compliant with ANSI/TIA-568.2-D standards in provided conduit/casing-n-capping	4660	RM	214	997240.00	235.4	1096964
2.21	Supplying and fixing 1 m 24 AWG multi stranded UTP patch cord with RJ-45 factory crimped connector of Cat 6 type, compliant ANSI/TIA-568.2-D standards in position	1	NOS	909	909.00	999.9	999.9
2.22	Supplying and erecting 12 fibers LSZH armoured multimode optical fiber cable with , core dia 50/125 µm (OM3), suitable upto 10 GBPS, compliant to IEC 60793/IEC 60794 standards, on wall/ceiling or laid in provided pipe/trench	10	RM	1181	11810.00	1299.1	12991
2.23	Supplying and fixing SC/SC type multimode pigtails (OM3) for LIU to terminate OFC in LIU	1	NOS	3187	3187.00	3505.7	3505.7
2.24	Supply, Installation, Testing & Commissioning of Under deck Insulation Underdeck Insulation With 19MM Thick "thermal nitril rubber with 36G Aluminium Foil	1092	Sqm	1400	1528800.00	1540	1681680
2.25	Providing and fixing trap door in the Gypsum board / POP ceiling system for electrical and mechanical utilities with 18mm thk. plywood shutter and 12mm thk. teak wood lipping all around including wooden / G.I. frame with supports, fixtures, fastenings etc. complete as directed.	180	Sqm	7559	1360620.00	8314.9	1496682
2.26	Providing and fixing aluminium powder coated trap door as per required size for AHU unit as per manufacture details specifications etc complete.	117	Sqm	12094	1414998.00	13303.4	1556497.8
2.27	Supply / Installation / Testing / commissioning Ceiling Suspended Cabinet type Fresh Air Fans & Casing, drive, motor, Filter, mounting frame, starter, isolator & Necessary cabling & earthing strip For Following Capacities (As per AMCA210 standard "Laboratory Methods of testing fans for rating" Balancing quality - As per AMCA204 / ISO 1940 standard Supply, Installation, Testing & Commissioning of 1550CFM Cabinet Type	1	Nos	35310	35310.00	38841	38841

2.28	Supply / Installation / Testing / commissioning Ceiling Suspended Cabinet type Fresh Air Fans & Casing, drive, motor, Filter, mounting frame, starter, isolator & Necessary cabling & earthing strip For Following Capacities :As per AMCA210 standard "Laboratory Methods of testing fans for rating" Balancing quality - As per AMCA204 / ISO 1940 standard Supply, Installation, Testing & Commissioning of 1650 CFM Cabinet Type Inline Fan	1	Nos	35310	35310.00	38841	38841
2.29	Supply / Installation / Testing / commissioning Ceiling Suspended Cabinet type Fresh Air Fans & Casing, drive, motor, Filter, mounting frame, starter, isolator & Necessary cabling & earthing strip For Following Capacities :As per AMCA210 standard "Laboratory Methods of testing fans for rating" Balancing quality - As per AMCA204 / ISO 1940 standard Supply, Installation, Testing & Commissioning of 2100 CFM Cabinet Type Inline Fan	1	Nos	51184	51184.00	56302.4	56302.4
2.3	Supply, Installation, Testing & Commissioning of Freshair Axial fan For Lobby & other HVAC system Ventilation Unit With DIDW Fresh Air Fans & Casing. Supply, Installation, Testing & Commissioning of 4900 CFM	1	Nos	81899	81899.00	90088.9	90088.9
2.31	Supplying, installing, testing and commissioning of INLINE / PROPELLER FANS suitable for installing in any position in vertical or horizontal ducts. The casing shall be double skin, internally acoustically lined and constructed of galvanised steel. The fan shall be DIDW with forward curve impeller fitted with maintenance free external rotor motor. The motor shall be suitable for 220±10% volt single phase 50 cycles AC supply. All units shall be complete with duct flexible connector and volume control damper 800CFM	2	Nos	25625	51250.00	28187.5	56375
2.32	Supply, Installation, Testing & Commissioning of Exhaust Axial fan For Kitchen Ventilation Unit With DIDW Fresh Air Fans & Casing. Supply, Installation, Testing & Commissioning of 8900 CFM	1	Nos	109111	109111.00	120022.1	120022.1
2.33	Supply, Installation, Testing & Commissioning of Freshair Axial fan For Kitchen Ventilation Unit With DIDW Fresh Air Fans & Casing. Supply, Installation, Testing & Commissioning of 7000 CFM	1	Nos	99556	99556.00	109511.6	109511.6
2.34	Supply / Installation / Testing / BRICATED rectangular sheet metal ducts, as per specifications detailed in tender, made of Class VIII GI sheet as per SMACNA Standard for medium pressure air flow with MS angle / TDF flanges, supports, anchor fasteners, food grade gaskets and RTV sealant in accordance with the approved shop drawings. It is mandatory to use factory fabricated ducts for minimum 85% of the ducting system. Use of Site fabricated ducts should be restricted to only 'to suit' pieces. Cold rolled sheets continuous galvanized sheet steel with zinc coating as per class VIII conforming to IS-277-1962 (revised)(where ever specified) of LFQ (Lock Forming Quality) grade. Galvanizing shall be of 120gms/sq. m (Total coating on both sides) The fabrication of the ducting system for air-conditioning & Ventilation shall conform to SMACNA-1995 standards ("HVAC Duct Construction Standards - Metal and Flexible - Second Edition - 1995"-SMACNA). Supply, Installation, Testing & Commissioning of G.I. ducting 22 G	445	Sqm	2041	908245.00	2245.1	999069.5
2.35	Grills & Diffusers : Supply, installation, testing and commissioning of extruded aluminium powder coated linear 4" Grilles for Supply /Return grill without volume control dampers	50	Sqm	11064	553200.00	12170.4	608520
2.36	Supply, installation, testing and commissioning of extruded aluminium powder coated linear 6" Grilles for Supply /Return grill without volume control dampers	100	Sqm	12366	1236600.00	13602.6	1360260
2.37	Supply, installation, testing and commissioning of extruded aluminium powder coated linear 8" Grilles for Supply /Return grill without volume control dampers	50	Sqm	13667	683350.00	15033.7	751685

2.38	Supply, installation, testing and commissioning of Powder Coated Extruded Aluminium 1 slot diffuser Of Required Airflow Angles With Out VCD.	30	Rmt	1628	48840.00	1790.8	5375.4
2.39	Supply, installation, testing and commissioning of Powder Coated Extruded Aluminium 2 slot diffuser Of Required Airflow Angles With Out VCD.	30	Rmt	2343	70290.00	2577.3	77319
2.4	Supply, installation, testing and commissioning of Powder Coated Extruded Aluminium 3 slot diffuser Of Required Airflow Angles With Out VCD.	30	Rmt	2864	85920.00	3150.4	94512
2.41	Supply / Installation / Testing / commissioning Of Fresh Air& Exhaust Air GI Duct Dampers with bird screen & Cowl Piece	30	Sq M.	11518	345540.00	12669.8	380094
2.42	Supply, installation, testing and commissioning of G. I. Dampers	30	Sq M.	11064	331920.00	12170.4	365112
2.43	Supply & Installation of the PVC Drain Piping complete with fittings, supports and insulated with 9 mm thick Nitrile Rubber Insulation 25 mm Dia/ or equivalent / as Directed by Engineer Incharge.	75	Rmt	558	41850.00	613.8	46035
2.44	Supply & Installation of the PVC Drain Piping complete with fittings, supports and insulated with 9 mm thick Nitrile Rubber Insulation 32 mm Dia/ or equivalent / as Directed by Engineer Incharge.	276	Rmt	728	200928.00	800.8	221020.8
2.45	Supply & Installation of the PVC Drain Piping complete with fittings, supports and insulated with 9 mm thick Nitrile Rubber Insulation 40 mm Dia/ or equivalent / as Directed by Engineer Incharge.	150	Rmt	761	114150.00	837.1	125565
2.46	Supply & Installation of the PVC Drain Piping complete with fittings, supports and insulated with 9 mm thick Nitrile Rubber Insulation 50 mm Dia/ or equivalent / as Directed by Engineer Incharge.	224	Rmt	793	177632.00	872.3	195395.2
2.47	Supplying and erecting elastomeric nitrile rubber tube type sleeves for coating and insulating on provided copper pipes having 13 mm thickness and inner diameter / sizes 6.4 mm for AC system	115	Rmt	318	36570.00	349.8	40227
2.48	Supplying and erecting elastomeric nitrile rubber tube type sleeves for coating and insulating on provided copper pipes having 13 mm thickness and inner diameter / sizes 9.5 mm for AC system	1624	Rmt	348	565152.00	382.8	621667.2
2.49	Supplying and erecting elastomeric nitrile rubber tube type sleeves for coating and insulating on provided copper pipes having 13 mm thickness and inner diameter / sizes 12.7 mm for AC system	115	Rmt	378	43470.00	415.8	47817
2.5	Supplying and erecting elastomeric nitrile rubber tube type sleeves for coating and insulating on provided copper pipes having 13 mm thickness and inner diameter / sizes 15.9 mm for AC system	2811	Rmt	409	1149699.00	449.9	1264668.9
2.51	Supplying and erecting elastomeric nitrile rubber tube type sleeves for coating and insulating on provided copper pipes having 13 mm thickness and inner diameter / sizes 19.1 mm for AC system	1876	Rmt	439	823564.00	482.9	905920.4
2.52	Supply, installation, testing and commissioning Centralize remote system for VRF system of hitachi make completed	1	Non	127516	127516.00	140267.6	140267.6
2.53	Supply, installation, testing, commissioning of power Distribution panel with following specification. Panel made form 14 swg CRCA sheet. Free standing, floor mounted, front hinged, for indoor use, cubicle type, rear removable, underlined and removable bottom gland plates for incoming and outgoing connections, dust and vermin proof with TPN Aluminium bus bar, complete with internal wiring, ferrules name plates, powder coated, with complete interlock, gaskets, and following accessories. As Per single line diagram. CRITICAL LOAD PANEL 1 Sets of 63 A MCCB each with SC / OC / EF. M.P. based releases with following mountings on each feeder 6 Nos. R-Y-B / ON / OFF / TRIP / READY TO CLOSE. Indicating Lamps with	1	SET	937282	937282.00	1031010.2	1031010.2

	Control MCB's 1 No Multi function Meter With 3 Nos. Control MCB's 3 Nos.63 / 5A 15 VA class 5 P 20 C.T.'s 1 No 0 to 63 Amp Ammeter 144 sqmm size and selector switch. 1 No 0 to 600 Volt Voltmeter 144 sqmm size and selector switch and control MCB's. Busbars 100Amps TP(N) Al. Heat Shrink colour PVC sleeved. OUT GOING 5 Sets of 40 A TP MCCB each with SC / OC / EF Microprocessor based releases with Following mountings on each Feeder 2 Nos. LED ON / OFF Indicating Lamps with 1 Nos. Control MCB's 3 Nos 40 / 5A 15 VA class 5 P 20 C.T.'s 1 No 0 to 40 Amp Ammeter 96 sqmm size and selector switch2 Sets of 32 A TP35 KA MCCB each with SC / OC / EF Microprocessor based releases with Following mountings on each Feeder 2 Nos. LED ON / OFF Indicating Lamps with 1 Nos. Control MCB's 3 Nos 32 / 5A 15 VA class 5 P 20 C.T.'s 1 No 0 to 32 Amp Ammeter 96 sqmm size and selector switch						
2.54	Supply, installation, testing, commissioning of power Distribution panel with following specification. Panel made form 14 swg CRCA sheet, Free standing, floor mounted, front hinged, for indoor use, cubicle type, rear removable, underlined and removable bottom gland plates for incoming and outgoing connections, dust and vermin proof with TPN Aluminium bus bar, complete with internal wiring, ferrules name plates, powder coated, with complete interlock, gaskets, and following accessories. As Per single line diagram. LIGHTING, POWER, UPS& PHE LOAD PANEL 1Sets of 630 A MCCB each with SC / OC / EF M.P. based releases with following mountings on each feeder. 7 Nos. R-Y-B / ON / OFF/ TRIP / READY TO CLOSE Indicating Lamps with Control MCB's 1 No Multi function Meter With 3 Nos. Control MCB's 3 Nos.630 / 5A 15 VA class 5 P 20 C.T.'s 1 No 0 to 630 Amp Ammeter 144 sqmm size and selector switch. 1 No 0 to 600 Volt Voltmeter 144 sqmm size and selector switch and control MCB's. Busbars 800 Amps TP(N) Al. Heat Shrink colour PVC sleeved. OUT GOING 5 Sets of 63 A TP MCCB each with SC / OC / EF Microprocessor based releases with mountings on each Feeder 2 Nos. LED ON / OFF Indicating Lamps with 1 Nos. Control MCB's 3 Nos 63 / 5A 15 VA class 5 P 20 C.T.'s 1 No 0 to 63 Amp Ammeter 96 sqmm size and selector switch 2 Sets of 100 A TP35 KA MCCB each with SC / OC / EF Microprocessor based releases with mountings on each Feeder 2 Nos. LED ON / OFF Indicating Lamps with 1 Nos. Control MCB's 3 Nos 100 / 5A 15 VA class 5 P 20 C.T.'s 1 No 0 to 100 Amp Ammeter 96 sqmm size and selector switch 1 Sets of 100 A TP35 KA MCCB each with SC / OC / EF Microprocessor based releases with mountings on each Feeder 2 Nos. LED ON / OFF Indicating Lamps with 1 Nos. Control MCB's 3 Nos 400 / 5A 15 VA class 5 P 20 C.T.'s 1 No 0 to 400 Amp Ammeter 96 sqmm size and selector switch	1	SET	2192029	2192029.00	2411231.9	2411231.9
2.55	Supply, installation, testing, commissioning of power Distribution panel with following specification. Panel made form 14 swg CRCA sheet, Free standing, floor mounted, front	2	SET	2078648	4157296.00	2286512.8	4573025.6

	hinged, for indoor use, cubicle type, rear-removable, underlined and removable bottom gland plates for incoming and outgoing connections, dust and vermin proof with TPN Aluminium bus bar, complete with internal wiring, ferrules name plates, powder coated, with complete interlock, gaskets, and following accessories. As Per single line diagram. HVAC LOAD PANEL.						
2.56	Supply, installation, testing, commissioning of power Distribution panel with following specification. Panel made from 14 swg CRCA sheet, Free standing, floor mounted, front hinged, for indoor use, cubicle type, rear-removable, underlined and removable bottom gland plates for incoming and outgoing connections, dust and vermin proof with TPN Aluminium bus bar, complete with internal wiring, ferrules name plates, powder coated, with complete interlock, gaskets, and following accessories. As Per single line diagram. PHE LOAD PANEL.	1	SET	1012869	1012869.00	1114155.9	1114155.9
2.57	Supply, installation, testing, commissioning of power Distribution panel with following specification. Panel made from 14 swg CRCA sheet, Free standing, floor mounted, front hinged, for indoor use, cubicle type, rear removable, underlined and removable bottom gland plates for incoming and outgoing connections, dust and vermin proof with TPN Aluminium bus bar, complete with internal wiring, ferrules name plates, powder coated, with complete interlock, gaskets, and following accessories. As Per single line diagram. UPS PANEL.	1	SET	521552	521552.00	573707.2	573707.2
2.58	Supplying and erecting ON LOAD automatic transfer switch 4 pole, 415V, 63A, 50 Hz with enclosure, flexibility of neutral connection, line and load reversibility, changeover with phase barriers, source separator, terminal covers along with staggered termination for cable connection and ATS controller with provision of time delay protection of OV, UV, phase sequence changing, single phasing and event logging, connected with provided leads complete	2	No	37990	75980.00	41789	83578
2.59	ELECTRICAL WORKS- UPS & INVERTER BATTERY ACCESSORIES Supplying, Loading, Unloading, Installations, Testing, Commissioning of expandable modular IGBT BASED 80KVA (20kva modules) UPS 3 PHASE INPUT & 3 PHASE OUTPUT with reversal protection, Nominal Voltage 415 V AC (3 Ph + N), +/- 15% Frequency 50 Hz, +/- 1% Tbd I <= 3% (at full load and Vtd<1%), Power Factor > 0.99 Inverter Bridge Space Vector Modulation & IGBT Technology Qty. Similar to DELTA make Modular UPS 80 kVA NH + frame 4 X 20 kVA power module with SNMP /Modbus Card.	1	SET	4215759	4215759.00	4637334.9	4637334.9
2.6	Supplying, Loading, Unloading, Installations, Testing, Commissioning of SMF battery set, Battery Bank Rack, and battery connecting accessories for 80 KVA including all terminals and enter battery cabling SMF batteries 12V 150Ah 40 Nos. SMF Batteries for 30 Mins Backup (72000VAH) / Quanta or Equivalent make.	1	SET	3312095	3312095.00	3643304.5	3643304.5
2.61	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 4 Pole MCCB 100/125 A of 35 kA SC rating, thermal and magnetic setting with provided leads on iron frame with Enclosure board as per specification For medical eq. U/c Incoming and out going UPS & INVERTER	1	SET	20199	20199.00	22218.9	22218.9
2.62	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 4 Pole MCCB 160 / 200 A of 35 kA SC rating, thermal and magnetic setting with provided leads on iron	1	SET	26577	26577.00	29234.7	29234.7

	frame with Enclosure board as per specification For medical eq. 1/c Incoming and out going UPS & INVERTER						
2.63	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 4 Pole MCCB 250 A of 35 kA SC rating, thermal and magnetic setting with provided leads on iron frame with Enclosure board as per specification For medical eq. 1/c Incoming and out going	1	SET	35721	35721.00	39293.1	39293.1
2.64	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 4 Pole MCCB 315/400 A of 35 kA SC rating, thermal and magnetic setting with provided leads on iron frame with Enclosure board as per specification For medical eq. 1/c Incoming and out going	1	SET	53795	53795.00	59174.5	59174.5
2.65	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 6 WAY Incomer- 2 Outgoing- 4 IK 09-Horizontal SPN Distribution Board IP 43 - Metal Door for Single/double door DBs Available in CRCA sheet steel, RAL 9003, powder coated Ready to use DBs - Provided with 100A insulated phase bus-bars neutral bar/s with shroud/s earth bar/s sticking saddles cement spill protector color-coded interconnecting wire set cable ties blanking plates and circuit identification labels With provision for FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoing/s L&T, Schindler or equivalent	1	Nos	2768	2768.00	3044.8	3044.8
2.66	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 8 WAY Incomer- 2 Outgoing- 63 IK 09-Including Internal Wiring Horizontal SPN Distribution Board IP 43 - Metal Door for Single/double door DBs Available in CRCA sheet steel, RAL 9003, powder coated Ready to use DBs - Provided with 100A insulated phase bus-bars neutral bar/s with shroud/s earth bar/s sticking saddles cement spill protector color-coded interconnecting wire set cable ties blanking plates and circuit identification labels With provision for FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoing/s L&T, Schindler or equivalent	1	Nos	2947	2947.00	3241.7	3241.7
2.67	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 12 WAY Incomer- 2 Outgoing-10 IK 09-Horizontal SPN Distribution Board IP 43 - Metal Door for Single/double door DBs Available in CRCA sheet steel, RAL 9003, powder coated Ready to use DBs - Provided with 100A insulated phase bus-bars neutral bar/s with shroud/s earth bar/s sticking saddles cement spill protector color-coded interconnecting wire set cable ties blanking plates and circuit identification labels With provision for FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoing/s L&T, Schindler or equivalent	8	Nos	4472	35776.00	4919.2	39353.6
2.68	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 4 WAY Incomer- 4 Outgoing- 4+4+4 IK 09-Horizontal TPN Distribution Board IP 43 - Metal Door for Single/double door DBs Available in CRCA sheet steel, RAL 9003, powder coated Ready to use DBs - Provided with 100A insulated phase bus-bars neutral bar/s with shroud/s earth bar/s sticking saddles cement spill protector color-coded interconnecting wire set cable ties blanking plates and circuit identification labels With provision for FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoing/s L&T, Schindler or equivalent	6	Nos	5599	33594.00	6158.9	36953.4
2.69	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 8 WAY Incomer- 8 Outgoing- 8+8+8 IK 09-Including Internal Wiring Horizontal TPN Distribution Board IP 43 - Metal Door for Single/double door DBs Available in CRCA sheet steel, RAL 9003, powder coated Ready to	5	Nos	8802	44010.00	9682.2	48411

	use DBs - Provided with 100A insulated phase bus-bars neutral bar/s with shroud/s earth bar/s sticking saddles cement spill protector color-coded interconnecting wire set cable ties blanking plates and circuit identification labels With provision for FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoing. L&T, Schindler or equivalent						
2.7	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 12 WAY Incomer- 8 Outgoing-12+12+12 IK 09- Horizontal TPN Distribution Board IP 43 - Metal Door for Single/double door DBs Available in CRCA sheet steel, RAL 9003, powder coated Ready to use DBs - Provided with 100A insulated phase bus-bars neutral bar/s with shroud/s earth bar/s sticking saddles cement spill protector color-coded interconnecting wire set cable ties blanking plates and circuit identification labels With provision for FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoing. L&T, Schindler or equivalent	10	Nos	13177	131770.00	14494.7	14494.7
2.71	ELECTRICAL WORKS- DISTRIBUTION BOARD AND MCB, RCCB, TPMCB, SPMCB ACCESSORIES WORK Supplying, Loading, Unloading, Installations, Testing, Commissioning of 4 WAY Incomer- 8 Outgoing- 4+4+4 IK 09- vertical TPN Distribution Board IP 43 - Metal Door for Single/double door DBs Available in CRCA sheet steel, RAL 9003, powder coated Ready to use DBs - Provided with 100A insulated phase bus-bars neutral bar/s with shroud/s earth bar/s sticking saddles cement spill protector color-coded interconnecting wire set cable ties blanking plates and circuit identification labels With provision for FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoing. L&T, Schindler or equivalent	1	Nos	14516	14516.00	15967.6	15967.6
2.72	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 8 WAY Incomer- 8 Outgoing- 8+8+8 IK 09- Including Internal Wiring Vertical TPN Distribution Board IP 43 - Metal Door for Single/double door DBs Available in CRCA sheet steel, RAL 9003, powder coated Ready to use DBs - Provided with 100A insulated phase bus-bars neutral bar/s with shroud/s earth bar/s sticking saddles cement spill protector color-coded interconnecting wire set cable ties blanking plates and circuit identification labels With provision for FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoing. L&T, Schindler or equivalent	5	Nos	18923	94615.00	20815.3	104076.5
2.73	Supplying, Loading, Unloading, Installations, Testing, Commissioning of 12 WAY Incomer- 8 Outgoing-12+12+12 IK 09- Vertical TPN Distribution Board IP 43 - Metal Door for Single/double door DBs Available in CRCA sheet steel, RAL 9003, powder coated Ready to use DBs - Provided with 100A insulated phase bus-bars neutral bar/s with shroud/s earth bar/s sticking saddles cement spill protector color-coded interconnecting wire set cable ties blanking plates and circuit identification labels With provision for FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoing. L&T, Schindler or equivalent	5	Nos	25655	128275.00	28220.5	141102.5
2.74	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Diesel generating set with alternator of 500 kVA output continuous rating, 3 Phase, 415 V, 50c/s 0.8 p. f. A.C a totally enclosed liquid cooled multi-	3	Nos	8012243	24036729.00	8813467.3	26440401.9

	cylinder diesel engine developing suitable BHP at 1500 rpm with 10% overload for 1 hour in 12 hours, alongwith standard accessories, self excited self regulated, screen protected alternator with static excitation system running at 1500 RPM as per IS 4722-2001 with voltage regulation +/- 5 %. Both the engine and alternator direct coupled on a common fabricated steel base frame and mounted on anti vibrating pads with standard control panel comprising meters, switchgears, indicators connected with suitable wires/cables, the complete set enclosed in composite Acoustic enclosure as fully assembled integral unit made of 16 SWG CRCA Sheet, sound absorbing material to restrict sound level upto 75 dB at 1.0 m, provided with first filling of oil, diesel etc. and obtaining necessary approval from Electrical Inspector/MSEB/MPCB/PWD as per specification, The engine filling of oil, diesel etc. whenever required upto handing over to User department. The DG set shall include all accessories items, protections, safety parameters, control Panel compatible with BMS (IP/BACNET/ ALL TYPE OF POTENTIAL FREE CONTACTS/ MODBUS ETC.), base frame with anti-vibration mount pad, fuel tank of 8 Hour capacity(750Ltrs to 999 Ltrs Tank capacity) with indicator, fuel pipe with pump, residential type exhaust silencer, 2X12 volt 180 amp-hour battery complete with copper conductor battery leads of required length and socket/clamps including G.I. stands for battery with wooden base, adaptor box etc complete as required for a 400 KVA DG Set as per the manufacturer recommendations. 400 KVA DG Set as per CPCB II norms, including No Load and Full load testing at Factory Before dispatched at site. EXHAUST ROUTING TO ATMOSPHERE FROM ENGINE Exhaust system consisting of 10" ERW Pipe including bends, flanges & hardware etc. 10" ERW Pipe including bends, flanges & hardware etc. r above exhaust pipe with 50 mm thk. Rockwool slab of 100 Kg/ M3 , wrapped with 24 gauge Aluminium sheet exhaust pipe with 50 mm thk. Rockwool slab of 100 Kg/ M3 , wrapped with 24 gauge Aluminium sheet exhaust pipe & silencer , with one coat of primer and 2 coats of Enamel Paint Insulation for silencer, 50mm thk. Rockwool Slab of 100 Kg/ m3 and wrapped with 24 gauge Aluminum sheet Notes :- 1) Supply of all Misc. materials, required to complete the installation on "Turnkey" basis are to be included in above offer.2)Required working Drawing for foundation to be furnished by Contractor. 3) Work excluded from the scope of supply under "EXCLUSIONS" in covering specification shall be carried out by others but as per D.G. Supplier's instructions and supervision. 4) Charging of batteries is supposed to be included in quoted price./or equivalent / as Directed by Engineer in charge.						
2.75	Supplying, Loading, Unloading, Installation, Testing , Commissioning of Auto Mains Failure, Auto synchronizing, auto load shearing panel for 400 KVA 3 Nos D.G. SETSAs per specification, as Directed by Engineer IN charge.	1	Non	3325837	3325837.00	3658420.7	3658420.7

2.76	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating MCBs 63A 4P MCB Conforms to IS/IEC 60898-1, EN 60898-1, IEC 60898-1, EN 60947-2, IEC 60947-2 Short circuit Breaking Capacity 10kA (IEC 60898-1, EN 60898-1) 15kA (IEC 60947-2, EN 60947-2) - for 80A, 100A and 125A	6	Nos	3421	20526.00	3763.1	22578.6
2.77	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating MCBs 50A 4P MCB Conforms to IS/IEC 60898-1, EN 60898-1, IEC 60898-1, EN 60947-2, IEC 60947-2 Short circuit Breaking Capacity 10kA (IEC 60898-1, EN 60898-1) 15kA (IEC 60947-2, EN 60947-2) - for 80A, 100A and 125A	1	Nos	3421	3421.00	3763.1	3763.1
2.78	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating MCBs 40A 4P MCB Conforms to IS/IEC 60898-1, EN 60898-1, IEC 60898-1, EN 60947-2, IEC 60947-2 Short circuit Breaking Capacity 10kA (IEC 60898-1, EN 60898-1) 15kA (IEC 60947-2, EN 60947-2) - for 80A, 100A and 125A	1	Nos	3421	3421.00	3763.1	3763.1
2.79	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating MCBs 32A 4P MCB Conforms to IS/IEC 60898-1, EN 60898-1, IEC 60898-1, EN 60947-2, IEC 60947-2 Short circuit Breaking Capacity 10kA (IEC 60898-1, EN 60898-1) 15kA (IEC 60947-2, EN 60947-2) - for 80A, 100A and 125A	8	Nos	2415	19320.00	2656.5	21252
2.8	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating MCBs 25A 4P MCB Conforms to IS/IEC 60898-1, EN 60898-1, IEC 60898-1, EN 60947-2, IEC 60947-2 Short circuit Breaking Capacity 10kA (IEC 60898-1, EN 60898-1) 15kA (IEC 60947-2, EN 60947-2) - for 80A, 100A and 125A	10	Nos	2415	24150.00	2656.5	26565
2.81	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating MCBs 16A 4P MCB Conforms to IS/IEC 60898-1, EN 60898-1, IEC 60898-1, EN 60947-2, IEC 60947-2 Short circuit Breaking Capacity 10kA (IEC 60898-1, EN 60898-1) 15kA (IEC 60947-2, EN 60947-2) - for 80A, 100A and 125A	30	Nos	2415	72450.00	2656.5	79695
2.82	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating MCBs 16A 2P MCB Conforms to IS/IEC 60898-1, EN 60898-1, IEC 60898-1, EN 60947-2, IEC 60947-2 Short circuit Breaking Capacity 10kA (IEC 60898-1, EN 60898-1) 15kA (IEC 60947-2, EN 60947-2) - for 80A, 100A and 125A	23	Nos	1109	25507.00	1219.9	28057.7
2.83	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating MCBs 25A 2P MCB Conforms to IS/IEC 60898-1, EN 60898-1, IEC 60898-1, EN 60947-2, IEC 60947-2 Short circuit Breaking Capacity 10kA (IEC 60898-1, EN 60898-1) 15kA (IEC 60947-2, EN 60947-2) - for 80A, 100A and 125A	2	Nos	1109	2218.00	1219.9	2439.8
2.84	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating RCCBs 40A 2P 100mA RCCB Conforms to IEC 61008-1, EN 61008-1, IS 12640-1 Wide Range of Current Ratings - 16A to 100A Precise Sensitivities for variety of applications - from 10mA to 500mA 2P & 4P versions Suitable for Isolation & Protection Degree - IP 20 Availability of wide Range of Site Mountable Accessories Available in- Type AC : For standard AC installations	15	Nos	6880	103200.00	7568	113520
2.85	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating RCCBs 32A 2P 100mA RCCB Conforms to IEC 61008-1, EN 61008-1, IS 12640-1 Wide Range of Current Ratings - 16A to 100A Precise Sensitivities for variety of applications - from 10mA to 500mA 2P & 4P versions Suitable for Isolation & Protection Degree - IP 20 Availability of wide Range of Site Mountable Accessories Available in- Type AC : For standard AC installations / or equivalent / as Directed by Engineer Incharge	1	Nos	6880	6880.00	7568	7568
2.86	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating RCCBs 25A 2P 100mA RCCB Conforms to IEC 61008-1, EN 61008-1, IS 12640-1 Wide Range	39	Nos	6669	260091.00	7335.9	286100.1

	of Current Ratings - 16A to 100A Precise Sensitivities for variety of applications - from 10mA to 500mA 2P & 4P versions Suitable for Isolation & Protection Degree - IP 20 Availability of wide Range of Site Mountable Accessories Available in- Type AC : For standard AC installations.					
2.87	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating RCCBs 16A 2P 30mA RCCB. Conforms to IEC 61008-1, EN 61008-1, IS 12640-1 Wide Range of Current Ratings - 16A to 100A Precise Sensitivities for variety of applications - from 10mA to 500mA 2P & 4P versions Suitable for Isolation & Protection Degree - IP 20 Availability of wide Range of Site Mountable Accessories Available in- Type AC : For standard AC installations.	13	Nos	6669	86697.00	7335.9 95366.7
2.88	Supplying, Loading, Unloading, Installations, Testing, Commissioning of Rating MCBs 6 TO 32A 1P 10KA Conforms to IS/IEC 60898-1, EN 60898-1, IEC 60898-1, EN 60947-2, IEC 60947-2 Wide Range of Current Ratings - 0.5A to 125A Short circuit Breaking Capacity 10kA (IEC 60898-1, EN 60898-1) 15kA (IEC 60947-2, EN 60947-2) - for 80A, 100A and 125A.	383	Nos	345	132135.00	379.5 145348.5
2.89	Supply And erecting Switch board for light on wall, false ceiling and concealed in Wall, Panels, etc with modular type switch 6A / 10A S.P, unbreakable concealed type modular switch box with double mounting plate for 1 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP using 3 x 1.5 Sq mm. [P, N, E] Multistranded Copper Conductor, FRLS PVC insulated, 1100 V grade, Color Coded, ISI marked wires, & Accessories. The Point with Switch Board Light Points controlled by one 6A/10A S.P. Switch / bell push or Blank of unit complete.	30	Nos	421	12630.00	463.1 13893
2.9	Supply And erecting Switch board for light on wall, false ceiling and concealed in Wall, Panels, etc with modular type switch 6A / 10A S.P, unbreakable concealed type modular switch box with double mounting plate for 2 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP using 3 x 1.5 Sq mm. [P, N, E] Multistranded Copper Conductor, FRLS PVC insulated, 1100 V grade, Color Coded, ISI marked wires, & Accessories. The Point with Switch Board Light Points controlled by one 6A/10A S.P. Switch / bell Push or Blank of unit complete.	26	Nos	735	19110.00	808.5 21021
2.91	Supply And erecting Switch board for light on wall, false ceiling and concealed in Wall, Panels, etc with modular type switch 6A / 10A S.P, unbreakable concealed type modular switch box with double mounting plate for 3 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP using 3 x 1.5 Sq mm. [P, N, E] Multistranded Copper Conductor, FRLS PVC insulated, 1100 V grade, Color Coded, ISI marked wires, & Accessories. The Point with Switch Board Light Points controlled by one 6A/10A S.P. Switch / bell Push or Blank of unit complete.	8	Nos	564	4512.00	620.4 4963.2
2.92	Supply And erecting Switch board for light on wall, false ceiling and concealed in Wall, Panels, etc with modular type switch 6A / 10A S.P, unbreakable concealed type modular switch box with double mounting plate for 4 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP using 3 x 1.5 Sq mm. [P, N, E] Multistranded Copper Conductor, FRLS PVC insulated, 1100 V grade, Color Coded, ISI marked wires, & Accessories. The Point with Switch Board Light Points controlled by one 6A/10A S.P. Switch / bell Push or Blank of unit complete.	10	Nos	1331	13310.00	1464.1 14641

2.93	Supply And erecting Switch board for light on wall, false ceiling and concealed in Wall, Panels, etc with modular type switch 6A / 10A S P, unbreakable concealed type modular switch box with double mounting plate for 6 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP using 3 x 1.5 Sq.mm. [P, N, E] Multistranded Copper Conductor, FRLS PVC insulated, 1100 V grade, Color Coded, ISI marked wires, & Accessories. The Point with Switch Board Light Points controlled by one 6A/10A S.P. Switch / bell Push or Blank of unit complete.	9	Nos	1638	14742.00	1801.8	16216.2
2.94	Supply And erecting Switch board for light on wall, false ceiling and concealed in Wall, Panels, etc with modular type switch 6A / 10A S P, unbreakable concealed type modular switch box with double mounting plate for 8 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP using 3 x 1.5 Sq.mm. [P, N, E] Multistranded Copper Conductor, FRLS PVC insulated, 1100 V grade, Color Coded, ISI marked wires, & Accessories. The Point with Switch Board Light Points controlled by one 6A/10A S.P. Switch / bell Push or Blank of unit complete.	10	Nos	2472	24720.00	2719.2	27192
2.95	Supply And erecting Switch board for light on wall, false ceiling and concealed in Wall, Panels, etc with modular type switch 6A / 10A S P, unbreakable concealed type modular switch box with double mounting plate for 12/16 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP using 3 x 1.5 Sq.mm. [P, N, E] Multistranded Copper Conductor, FRLS PVC insulated, 1100 V grade, Color Coded, ISI marked wires, & Accessories. The Point with Switch Board Light Points controlled by one 6A/10A S.P. Switch / bell Push or Blank of unit complete.	12	Nos	3130	37560.00	3443	41316
2.96	Supply And erecting Switch board for light on wall, false ceiling and concealed in Wall, Panels, etc with modular type switch 6A / 10A S P, unbreakable concealed type modular switch box with double mounting plate for 18 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP using 3 x 1.5 Sq.mm. [P, N, E] Multistranded Copper Conductor, FRLS PVC insulated, 1100 V grade, Color Coded, ISI marked wires, & Accessories. The Point with Switch Board Light Points controlled by one 6A/10A S.P. Switch / bell Push or Blank of unit complete.	5	Nos	3547	17735.00	3901.7	19508.5
2.97	Supply And erecting Switch board for Ceiling fan on wall, false ceiling and concealed in Wall, Panels, etc with modular type switch 6A / 10A S P, unbreakable concealed type modular switch box with double mounting plate for 3 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP using 3 x 1.5 Sq.mm. [P, N, E] Multistranded Copper Conductor, FRLS PVC insulated, 1100 V grade, Color Coded, ISI marked wires, & Accessories. The Point with Switch Board Light Points controlled by one 6A/10A S.P. Switch / bell Push With regulator complete.	10	Nos	2300	23000.00	2530	25300
2.98	Supply and installation of switch board for UPS Plugs, with ISI mark. 1.1 KV grade PVC insulated copper wire with 2.5 Sq.mm ISI mark PVC insulated copper wire in green color used for earthing in existing PVC conduit on the board complete with 3 Nos 5 pin 16A modular type socket and 1 No 16 Amp modular type Switch erected on original sheet metal / non metallic un-breakable box flush on wall / partition complete with double (mounting & cover) plate.	409	Nos	1021	417589.00	1123.1	459347.9

2.99	Supply and installation of switch board for Power Plug, on board with ISI mark 2-4 sq mm 1.1 KV grade PVC insulated copper wire with 2.5 Sq.mm ISI mark PVC insulated copper wire in green color used for earthing in existing rigid PVC conduit on board for plug complete with 6 pin 6A & 16 A modular type socket and 16 Amp modular type Switch erected on original sheet metal / non metallic un-breakable box flush on wall with double (mounting & cover) plate.	150	Nos	1021	153150.00	1123.1	168465
3	Supply and installation of switch board for Telephone concealed type with existing telephone cable in existing concealed rigid PVC conduit for plug complete erected on original sheet metal / non metallic un-breakable box flush on wall with double (mounting & cover) plate. (Only Point).	20	Nos	1487	29740.00	1635.7	32714
3.01	Supplying and erecting Multistranded Copper Conductor FRLS PVC insulated, Color Coded, 1100 V grade, ISI marked wires, to be laid in item above 2 x 1.5 Sq.mm. [P, N] Wires. + 1 x 1.5 Sq.mm. [E]	37000	Rmt	250	9250000.00	209	7733000
3.02	Supplying and erecting Multistranded Copper Conductor FRLS PVC insulated, Color Coded, 1100 V grade, ISI marked wires, to be laid in item above 2 x 2.5 Sq.mm. [P, N] Wires. + 1 x 2.5 Sq.mm. [E]	29000	Rmt	250	7250000.00	193.6	5614400
3.03	Supplying and erecting Multistranded Copper Conductor FRLS PVC insulated, Color Coded, 1100 V grade, ISI marked wires, to be laid in item above 2 x 4 Sq. mm. [P, N] Wires. + 1 x 4 Sq.mm. [E]	11000	Rmt	250	2750000.00	266.2	2928200
3.04	Supplying and erecting Multistranded Copper Conductor FRLS PVC insulated, Color Coded, 1100 V grade, ISI marked wires, to be laid in item above 4 x 4 Sq. mm. [R, Y, B, N] Wires. + 1 x 4 Sq.mm. [E]	3500	Rmt	500	1750000.00	443.3	1551550
3.05	Supplying and erecting Multistranded Copper Conductor FRLS PVC insulated, Color Coded, 1100 V grade, ISI marked wires, to be laid in item above 4 x 10 Sq. mm. [P, N] Wires. + 1 x 10 Sq.mm. [E]	1000	Rmt	613	613000.00	674.3	674300
3.06	Supplying and erecting I.S.I. mark Rigid P.V.C. conduit 20 mm. dia. with necessary accessories 20mm H.G. PVC conduit, with accessories as Junction Boxes, Couplers, on ceiling, Wall, panels etc. for following. a) light board Submains b) 3P 6A Socket Switch computer Points c) 3P 6 / 16A Socket Switch Point d) Cat -6 Cable Point e) Telephone Cable Point. Etc.	8000	Rmt	76	608000.00	83.6	668800
3.07	Supplying and erecting I.S.I. mark Rigid P.V.C. conduit 25 mm. dia. with necessary accessories 25mm H.G. PVC conduit, with accessories as Junction Boxes, Couplers, on ceiling, Wall, panels etc. for following. a) light board Submains b) 3P 6A Socket Switch computer Points c) 3P 6 / 16A Socket Switch Point d) Cat -6 Cable Point e) Telephone Cable Point. Etc.	10000	Rmt	96	960000.00	105.6	1056000
3.08	Supplying and erecting I.S.I. mark Rigid P.V.C. conduit 32 mm. dia. with necessary accessories 32mm H.G. PVC conduit, with accessories as Junction Boxes, Couplers, on ceiling, Wall, panels etc. for following. a) light board Submains b) 3P 6A Socket Switch computer Points c) 3P 6 / 16A Socket Switch Point d) Cat -6 Cable Point e) Telephone Cable Point. Etc.	1000	Rmt	151	151000.00	166.1	166100
3.09	Supplying and erecting I.S.I. mark Flexible P.V.C. conduit 40 mm. dia. with necessary accessories 40mm H.G. PVC conduit, with accessories as Junction Boxes, Couplers, on ceiling, Wall, panels etc. for following. a) light board Submains b) 3P 6A Socket Switch computer Points c) 3P 6 / 16A Socket Switch Point d) Cat -6 Cable Point e) Telephone Cable Point. Etc.	500	Rmt	198	99000.00	217.8	108900
3.1	Supplying and erecting I.S.I. mark Flexible P.V.C. conduit 50 mm. dia. with necessary accessories 50mm H.G. PVC conduit, with accessories as Junction Boxes, Couplers, on ceiling, Wall, panels etc. for following. a) light board Submains b) 3P 6A Socket Switch	199	Rmt	300	59700.00	330	65670

	computer Points c) 3P 6 / 16A Socket Switch Point d) Cat -6 Cable Point e) Telephone Cable Point. Etc.						
3.11	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 4 module duly flushed to wall with required chiselling and finishing with cement mortar / POP as per required to match the background.	50	Nos	600	30000.00	660	33000
3.12	SITC of 1100 V grade XLPE insulated sheathed & steel armoured Aluminium Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 3.5 C X 300 Sq. mm. A X F Y XLPE	2060	Rmt	4500	9270000.00	9350	19261000
3.13	SITC of 1100 V grade XLPE insulated sheathed & steel armoured Aluminium Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 3.5 C X 185 Sq. mm. A X F Y XLPE	500	Rmt	4500	2250000.00	9350	4675000
3.14	SITC of 1100 V grade XLPE insulated sheathed & steel armoured Aluminium Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 3.5 C X 150 Sq. mm. A X F Y XLPE	500	Rmt	4500	2250000.00	9350	4675000
3.15	SITC of 1100 V grade XLPE insulated sheathed & steel armoured copper Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 4 C X 16 Sq. mm. YWY XLPE	500	Rmt	4500	2250000.00	9350	4675000
3.16	SITC of 1100 V grade XLPE insulated sheathed & steel armoured Copper Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 4 C X 10 Sq. mm. YWY XLPE	500	Rmt	4500	2250000.00	9350	4675000
3.17	SITC of 1100 V grade XLPE insulated sheathed & steel armoured Copper Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable	500	Rmt	4500	2250000.00	9350	4675000

	trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 4 C X 6 Sq. mm. YWY XLPE						
3.18	SITC of 1100 V grade XLPE insulated sheathed & steel armoured Copper Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 4 C X 4 Sq. mm. YWY XLPE	500	Rmt	4500	2250000.00	9350	4675000
3.19	SITC of 1100 V grade XLPE insulated sheathed & steel armoured Copper Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 3.5 C X 35 Sq. mm. YWY XLPE	500	Rmt	4500	2250000.00	10450	5225000
3.2	SITC of 1100 V grade XLPE insulated sheathed & steel armoured Copper Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 3 C X 4 Sq. mm. YWY XLPE	500	Rmt	3500	1750000.00	3850	1925000
3.21	SITC of 1100 V grade XLPE insulated sheathed & steel armoured Aluminium Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 4 C X 25 Sq. mm. A Y F Y XLPE	500	Rmt	2500	1250000.00	2750	1375000
3.22	SITC of 1100 V grade XLPE insulated sheathed & steel armoured Aluminium Conductor cables. Unloading by crane, shifting to place of work and laid on walls / ceiling / ready made trench / Cable tray / Through underground RCC pipes / including spacers / saddles / clamps / G.I. Hardware as required, (M.S. cable trays supports / cable trays, RCC pipes covered by separate items) with Termination of cable using screwed flange type elliptical / conical, heavy duty brass glands, crimping sockets including 3.5 C X 95 Sq. mm. A Y F Y XLPE	500	Rmt	2799	1399500.00	3078.9	1539450
3.23	Supplying & erecting single compression type brass cable glands for 4 core 10 Sq. mm	10	Nos.	140	1400.00	154	1540
3.24	Supplying & erecting single compression type brass cable glands for 4 core 16 Sq. mm	10	Nos.	278	2780.00	305.8	3058
3.25	Supplying & erecting single compression type brass cable glands for 4 core 25 Sq. mm	10	Nos.	312	3120.00	343.2	3432
3.26	Supplying & erecting single compression type brass cable glands for 4 core 35 Sq. mm	10	Nos.	312	3120.00	343.2	3432
3.27	Supplying & erecting single compression type brass cable glands for 3 1/2 core 95 sq. mm cable	10	Nos.	558	5580.00	613.8	6138
3.28	Supplying & erecting single compression type brass cable glands for 3 1/2 core 150 sq. mm cable	10	Nos.	558	5580.00	613.8	6138
3.29	Supplying & erecting Single Compression type brass cable glands for 3 1/2 core 185sq. mm cable	10	Nos.	879	8790.00	966.9	9669

3.3	Supplying & erecting Single Compression type brass cable glands for 3½core 240 sq mm cable	10	Nos.	879	8790.00	966.9	9669
3.31	Supplying & erecting Single Compression type brass cable glands for 3½core 300 sq mm cable	10	Nos.	1199	11990.00	1318.9	13189
3.32	Supplying & erecting crimping type aluminium lugs for cable 16 sq mm complete	40	Nos.	11	440.00	12.1	484
3.33	Supplying & erecting crimping type aluminium lugs for cable 25 sq mm complete	40	Nos.	12	480.00	13.2	528
3.34	Supplying & erecting crimping type aluminium lugs for cable 35 sq mm complete	40	Nos.	19	760.00	20.9	836
3.35	Supplying & erecting crimping type aluminium lugs for cable 95 sq mm complete	40	Nos.	33	1320.00	36.3	1452
3.36	Supplying & erecting crimping type aluminium lugs for cable 185 sq mm complete	40	Nos.	78	3120.00	85.8	3432
3.37	Supplying & erecting crimping type aluminium lugs for cable 240 sq mm complete	40	Nos.	112	4480.00	123.2	4928
3.38	Supplying & erecting crimping type aluminium lugs for cable 300 sq mm complete	40	Nos.	163	6520.00	179.3	7172
3.39	Supplying & erecting crimping type Copper lugs for cable Upto 16 sq mm complete	40	Nos.	24	960.00	26.4	1056
3.4	Supplying & erecting crimping type Copper lugs for cable 25 sq mm complete	40	Nos.	36	1440.00	39.6	1584
3.41	Supplying & erecting crimping type Copper lugs for cable 35 sq mm complete	40	Nos.	42	1680.00	46.2	1848
3.42	Supply, installing, and testing of maintenance free earthing comprising of electrode of 17.2 mm diameter Low Carbon Steel with 250 micron molecular copper bonded earthing rod of Length 3m along with Carbon based environment friendly back fill ground enhancing compound required to fill up the excavated earth with required quantity (min. 125kg) complete, and recording the results	10	Nos.	27000	270000.00	29700	297000
3.43	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 120 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, complete	100	Rmt	5000	500000.00	5500	550000
3.44	Supplying and erecting GI earth conductor of required sizes used for earthing or any other purposes on wall with necessary GI clamps fixed on wall/cable/ conduit with screws complete(8 SWG)	50	KG	300	15000.00	330	16500
3.45	Supplying and laying of Hot deeped Galvanised Perforated type Cable tray manufactured from 16 swg (1.6 mm thick), including couplers, G.I. Bolts, nuts, washers, necessary G.I. Hardware to be mounted on M.S fabricated supports (considered in separate item.) Sizes as follows 500 x 75 mm.	100	Rmt	1800	180000.00	1980	198000
3.46	Supplying and laying of Hot deeped Galvanised Perforated type Cable tray manufactured from 16 swg (1.6 mm thick), including couplers, G.I. Bolts, nuts, washers, necessary G.I. Hardware to be mounted on M.S fabricated supports (considered in separate item.) Sizes as follows 400 x 75 mm.	100	Rmt	1800	180000.00	1980	198000
3.47	Supplying and laying of Hot deeped Galvanised Perforated type Cable tray manufactured from 16 swg (1.6 mm thick), including couplers, G.I. Bolts, nuts, washers, necessary G.I. Hardware to be mounted on M.S fabricated supports (considered in separate item.) Sizes as follows 300 x 100 mm.	100	Rmt	1800	180000.00	1980	198000
3.48	Supplying and laying of Hot deeped Galvanised Perforated type Cable tray manufactured from 16 swg (1.6 mm thick), including couplers, G.I. Bolts, nuts, washers, necessary G.I. Hardware to be mounted on M.S fabricated supports (considered in separate item.) Sizes as follows 300 x 50/75 mm.	100	Rmt	1800	180000.00	1980	198000
3.49	Supplying and laying of Hot deeped Galvanised Perforated type Cable tray manufactured from 16 swg (1.6 mm thick), including couplers, G.I. Bolts, nuts, washers, necessary G.I. Hardware to be mounted on M.S fabricated supports (considered in separate item.) Sizes as follows 200 x 50/75 mm.	100	Rmt	1800	180000.00	1980	198000
3.5	Supplying and laying of Hot deeped Galvanised Perforated type Cable tray manufactured from 16 swg (1.6 mm thick), including couplers, G.I. Bolts, nuts, washers, necessary G.I. Hardware	100	Rmt	1800	180000.00	1980	198000

	to be mounted on M.S fabricated supports (considered in separate item) Sizes as follows 150 x 50/75 mm.						
3.51	SITC of Hitech suspension Support G.I. 10 MM dia Thereded Tie Rod for supporting of cable tray of any length with G.I Hardware, install between Trusses G.I. Rail Channel Strip / Trusses welded clamp & supporting angle / GI Rail Channel strip below of cable tray. (Supporting angle/ welded strip/ Rail Channel covered in seprate item)	50	Mtrs.	190	9500.00	209	10450
3.52	SITC of Hitech Support G.I. 2 MM Thick X 30 mm Width Rail Channel strip for supporting of cable tray of any length, install on Trusses & supporting of cable tray. (Supporting Thereded Rod & welded strip covered in seprate item)	100	Mtrs.	180	18000.00	198	19800
3.53	SITC of M.S fabricated supports for cable trays of M.S sections welded to structure / clamped to structure / wall, using anchor bolts where required including G.I. hardware & painting with Two coats of Red oxide primer & 2 coats of camel paint of approved shade. (colour As per Ex.)	90	KG	110	9900.00	121	10890
3.54	Supplying and erecting anodized aluminium mirror light LED fitting (2 feet) for toilet area Indirect lighting Max. 12W with high transitivity diffuser with min. system lumens output of 1200 lumens, min. efficacy of 100 lumen/W, CRI>80, CCT upto 6000K, Beam Angle of 110 deg., Ripple<5%, THD<20%, p.f >0.95, operating range of 200-270V, surge protection of 2 kV, Life class of 50,000 Hrs at L70B50 including driver with end caps on provided PVC Block / wooded board with minimum 2 years warranty as per specification No. FG-IDF/LED	22	Nos	12500	275000.00	13750	302500
3.55	Supply, installation, testing & commissioning of following light fixtures complete with: a) All fixing accessories, mounting Brackets, anchor fasteners, suspension wires/chains etc. necessary for completeness of installation. b) Drivers / Controllers with housing. c) Lamp of specified wattage. d) Earthing of fittings. e) Diffuser shall fit up uniformly without any black spot on diffuser. f) Light fixture finishes should be as specified. g) Any visible power supply cable to light fixture shall be transparent. h) All suspended fixtures shall be provided with SS caps to put around suspension at false ceiling level Note: 1) In addition to above mentioned accessories details, vendor to consider specific light fixture requirement mentioned along-with light fixture. 2) Light Fixtures final confirmation to be done by Architect and Lighting Consultant. MR 1.2M Long 25mm THIK Concealed Profile light with 30W PER METER LED STRIP LIGHT	62	Nos	6917	428854.00	7608.7	471739.4
3.56	Tube Light- 4- FEET 48-WATT (DOUBLE) 6500K With Wide Angle Reflector	23	Nos	10376	238648.00	11413.6	262512.8
3.57	42 W Led Down Light Fitting Surface Mounted / Suspension Mounted	134	Nos	15131	2027554.00	16644.1	2230309.4
3.58	20 W Track Light With Cob Led & Extruded Aluminium Housing	55	Nos	12542	689810.00	13796.2	758791
3.59	Single Phase 1 Mtr. Track For Track Lights	60	Nos	5763	345780.00	6339.3	380358
3.6	38 W Led Type Light Fitting Surface / Suspension Mounted	30	Nos	2034	61020.00	2237.4	67122
3.61	32 W Recessed Mounted Led Type Light Fitting	113	Nos	10376	1172488.00	11413.6	1289736.8
3.62	4.0 W Led Batten Type Light Fitting Suitable For Surface Mountin	6	Nos	7782	46692.00	8560.2	51361.2
3.63	16 W Batten Type Led Light Fitting	50	Nos	3891	194550.00	4280.1	214005
3.64	Led Wall Wash Light Fittings	59	Nos	7590	447810.00	8349	492591
3.65	Led Hanging Light Fittings	21	Nos	6102	128142.00	6712.2	140956.2
3.66	Rgb Floor Strip Lights Of 300 Mm. Length With Controller	123	Nos	90390	11117970.00	99429	12229767
3.67	5 W Led Study Table Lamp	9	Nos	5404	48636.00	5944.4	53499.6

3.68	36w Led Downlight	20	Non	15131	302620.00	16644.1	332882
3.69	SITC Of White Pop-Up Box For Library Area Switch Socket Installation. The Configuration To Consist Of Switch+Socket Complete In All Respect, Flushed With The Table	20	Non	14134	282680.00	15547.4	310948
3.7	Providing and installing Nylon net for protection from Birds entry in Entrance Lobby (Exterior Projection)	10	Sqm	5000	50000.00	5500	55000
3.71	UST LensMR Supply And Installation Of Accessories With Specifications Mentioned Below And As Per Direction Of Engineer-In-Charge. Supply And Installation Of Ultra Short Throw Lens With Specifications Mentioned Below And As Per Direction Of Engineer-In-Charge Brand And Model Epson Ultra Short Throw Lens ELPLX02Zoom Ratio 0Throw Ratio (4.3) 0.35Throw Ratio (16:10) 0.35MR	1	no.	1014723	1014723.00	1116195.3	1116195.3
3.72	LAN To HDMI Converter MR HDMI Converters Are Devices That Connect A Non-HDMI Source To An HDMI Display. ... For Example, The HDMI Signal Flows Out Of Your DVD Player And Into Your TV. MR	1	no.	2700	2700.00	2970	2970
3.73	Live Action Shoot Story 2 MR Undertake Test Shoots And Experiments To Deduce Appropriate Camera Angles For The Specific Measurement Requirements Of The Target Environment ,Professional Services Of The Director, Director Of Photography, Camera Crew, Lighting Crew, Sound Recordist, And Other Sundry Shoot Crew Totalling 40 Crew Members For Mentioned Days Of Shoot.Rent Of Lighting Systems For Chroma Lighting, Subject Lighting For Camera, And Stage Lighting Of The Set, For Mentioned Days Of Shoot Professional Services Of The Visual Effects Supervisor For Mentioned Days Of Shoot MR	2	nos.	1334500	2669000.00	1467950	2935900
3.74	Writing the complete script story 2 MR .This refers to the forming of the story in written form, wherein the idea behind the installation is visualised and thought of. The same script is then referred for all cgi creation and further development. MR	1	no.	334395	334395.00	367834.5	367834.5
3.75	Photorealistic Head Modelling story 2 MR Recreating Model Of The Personality Head in three dimension for it to be used in the process ahead. Three-dimensional (3D) models should represent a physical body using a collection of points in 3D space, connected by various geometric entities such as triangles, lines, curved surfaces, etc. Being a collection of data (points and other information), 3D models can be created by hand, algorithmically (procedural modeling), or scanned. MR	1	no.	941760	941760.00	1035936	1035936
3.76	Photorealistic Head Texturing story 2MR In this process you would need to create colours, paints and textures for the above model so that it is realistic, for which you will have to use a method called multi texturing. Multitexturing is the use of more than one texture at a time on a polygon. For instance, a light map texture may be used to light a surface as an alternative to recalculating that lighting every time the surface is rendered. Microtextures or detail textures will be needed to add higher frequency details, and dirt maps may add weathering and variation; this can greatly reduce the apparent periodicity of repeating textures. Modern graphics may use more than 10 layers, which are combined using shaders, for greater fidelity. Another multitexture technique is bump mapping, which allows a texture to directly control the facing direction of a surface for the purposes of its lighting calculations; it can give a very good appearance of a complex surface (such as tree bark or rough concrete) that takes on lighting detail in addition to the usual detailed coloring. MR	1	no.	561750	561750.00	617925	617925

3.77	Rigging story 2 In this process you will be required to put digital joints and muscles so that the above model can be animated realistically. This technique is used by constructing a series of 'bones,' sometimes referred to as rigging. Each bone has a three-dimensional transformation from the default bind pose (which includes its position, scale and orientation), and an optional parent bone. The bones therefore form a hierarchy. The full transform of a child node is the product of its parent transform and its own transform. So moving a thigh-bone will move the lower leg too. As the character is animated, the bones change their transformation over time, under the influence of some animation controller. A rig is generally composed of both forward kinematics and inverse kinematics parts that may interact with each other. Skeletal animation is referring to the forward kinematics part of the rig, where a complete set of bone configurations identifies a unique pose. Each bone in the skeleton is associated with some portion of the character's visual representation in a process called skinning. In the most common case of a polygonal mesh character, the bone is associated with a group of vertices; for example, in a model of a human being, the 'thigh' bone would be associated with the vertices making up the polygons in the model's thigh. Portions of the character's skin can normally be associated with multiple bones, each one having a scaling factors called vertex weights, or blend weights. The movement of skin near the joints of two bones, can therefore be influenced by both bones. For a polygonal mesh, each vertex can have a blend weight for each bone. To calculate the final position of the vertex, a transformation matrix is created for each bone which, when applied to the vertex, first puts the vertex in bone space then puts it back into mesh space. After applying a matrix to the vertex, it is scaled by its corresponding weight. MR	1	no.	121900	121900.00	134090	134090
3.78	Photorealistic Head Lighting story 2 In this Process you will need to match the lighting of the textured model to the shoot for it to look seamless. It refers to the simulation of light in computer graphics. This simulation can either be extremely accurate, as is the case in an application like Radiance which attempts to track the energy flow of light interacting with materials using radiosity computational techniques. Alternatively, the simulation can simply be inspired by light physics, as is the case with non-photorealistic rendering. In both cases, a shading model will be used to describe how surfaces respond to light. Between these two extremes, there are many different rendering approaches which can be employed to achieve almost any desired visual result. MR	1	no.	231629	231629.00	254791.9	254791.9
3.79	Hologram Head Animation - 10 minutes story 2 MR Computer animation is the process used for generating animated images. The more general term computer-generated imagery (CGI) encompasses both static scenes and dynamic images, while computer animation only refers to the moving images. Computer animation is essentially a digital successor to the stop motion techniques using 3D models, and traditional animation techniques using frame-by-frame animation of 2D illustrations. Computer-generated animations are more controllable than other more physically-based processes, constructing miniatures for effects shots or hiring extras for crowd scenes, and because it allows the creation of images that would not be feasible using any other technology. It can also allow a single graphic artist to produce such content without the use of actors, expensive set pieces, or props. To create the illusion of movement, an image is displayed	600	sec.	7876	4725600.00	8663.6	5198160

	on the computer monitor and repeatedly replaced by a new image that is similar to it, but advanced slightly in time.						
3.8	CGI Head Replacement on a Live Action Character and 3D Tracking (12 Minutes) MR This refers to the replacement of the actual human head with the one which is CGI created in a computer software with all the facial animations and lighting. The animated head is then placed/tracked frame by frame over the moving human so as to completely overlap the actual head. MR	720	sec.	2500	1800000.00	6392.1	4602312
3.81	Hologram Visual FX / Holographic Imagery 12 minutes MR This refers to creating of various graphical/visual elements in tune with the script/storyboard of the desired installation in order to enhance the visual story telling. This involves creation of element in various softwares and then compiling into one visual element. MR	720	sec.	6100	4392000.00	7811.1	5623992
3.82	Creating and Editing the Sound Effects MR. Combining (Mixing) the 4K Output Video, the dubbed voice track, the sound effects, and original music into a single Master Video for playback through the Holographic Projection System MR	1	no.	276550	276550.00	304205	304205
3.83	Chroma Keying and Roto MR a photographic compositing technique based on the separation of colors in the original images especially : blue screen sense 1. rotoscoping is the technique of manually creating a matte for an element on a live-action plate so it may be composited over another background MR	720	sec.	2150	1548000.00	2636.7	1898424
3.84	4K Holographic Rendering MR This refers to the the image compilation of the composited output to form the final image/visual. The process involves processing of the various 4k element to be combined to form a single image. MR	24000	frame	412	9888000.00	453.2	10876800
3.85	Compositing MR It represents each media object in a composite as a separate layer within a timeline, each with its own time bounds, effects, and keyframes. All the layers are stacked, one above the next, in any desired order, and the bottom layer is usually rendered as a base in the resultant image, with each higher layer being progressively rendered on top of the previously composited of layers, moving upward until all layers have been rendered into the final composite. Layer-based compositing is very well suited for rapid 2D and limited 3D effects such as in motion graphics, but becomes awkward for more-complex composites entailing a large number of layers. A partial solution to this is some programs' ability to view the composite-order of elements (such as images, effects, or other attributes) with a visual diagram called a flowchart to nest compositions, or "comps," directly into other compositions, thereby adding complexity to the render-order by first compositing layers in the beginning composition, then combining that resultant image with the layered images from the preceding composition, and so on MR	24000	frame	173	4152000.00	190.3	4567200
3.86	Technical Architecture Design :It refers to the high level structures of a software system and the discipline of creating such structures and systems. Each structure comprises software elements, relations among them, and properties of both elements and relations. It functions as a blueprint for the system and the developing project, laying out the tasks necessary to be executed by the design teams. It is about making fundamental structural choices which are costly to change once implemented. Software architecture choices include specific structural options from possibilities in the design of	1	no.	702000	702000.00	772200	772200

	software. For example, the systems that controlled the space shuttle launch vehicle had the requirement of being very fast and very reliable. Therefore, an appropriate real-time computing language would need to be chosen. Additionally, to satisfy the need for reliability the choice could be made to have multiple redundant and independently produced copies of the program, and to run these copies on independent hardware while cross-checking results. MR						
3.87	Fabrication Design and 3D Visualisation MR This refers to creation of the physical insulation inside of a software program to visualise how its going to look in the real world before the actual onground production MR	1	no.	233200	233200.00	256520	256520
3.88	Software Programming MR It is the process of designing and building an executable computer program for accomplishing a specific computing task. Programming will involve tasks such as: analysis, generating algorithms, profiling algorithms' accuracy and resource consumption, and the implementation of algorithms in a chosen programming language (commonly referred to as coding). The source code of a program is written in one or more languages that are intelligible to programmers, rather than machine code, which is directly executed by the central processing unit. The purpose of programming is to find a sequence of instructions that will automate the performance of a task (which can be as complex as an operating system) on a computer, often for solving a given problem. The process of programming thus often requires expertise in several different subjects, including knowledge of the application domain, specialized algorithms, and formal logic. The system splits the media in to two zones , low res for visualisation of the playback in the control room and 4K for the main holographic playback. Also gives turnkey playback system from the control unit. MR	1	no.	1686500	1686500.00	1855150	1855150
3.89	Asset Integration MR asset integration refers to the compiling/placing/integration/optimisation of the various elements (graphics/cgi) needed to from the front end of the desired application/installation MR	1	no.	135000	135000.00	148500	148500
3.9	Testing / Compilation It is an investigation conducted to provide stakeholders with information about the quality of the software product or service under test. Software testing can also provide an objective, independent view of the software to allow the business to appreciate and understand the risks of software implementation. Test techniques include the process of executing a program or application with the intent of finding software bugs (errors or other defects), and verifying that the software product is fit for use. MR	1	no.	159000	159000.00	174900	174900
3.91	Installation / Integration This includes the setting up of the physical installation including mointing of the projectors /screens/and loading and executuin of the required software/licenses (Hologram) MR	1	no.	399587	399587.00	439545.7	439545.7
3.92	UI / UX This is design balance process it balances technical functionality and visual elements. this is to create a system that is is not only operational but also usable and adaptable to changing user needs.(Hologram) MR	1	no.	901000	901000.00	991100	991100
3.93	Supply and installation of Projector with specifications mentioned below and as per direction of Engineer-in-charge.	1	Not	850000	850000.00	935000	935000

3.94	Projector Mount	1	nos	5000	5000.00	5500	5500
3.95	Supply and installation of Computer Intel Core i7 with specifications mentioned below and as per direction of Engineer-in-charge. Brand and Model Gigabyte Brix or Similar RAM 8GBx2 Hyperx Fury 3200MHz Storage 512GB NVME Display Adapter Gigabyte GeForce RTX 3060 Gaming OC 8GB GDDR6 Network Adapter Gigabit Ethernet LAN 10/100/100	1	Nos	125000	125000.00	137500	137500
3.96	Supply and installation of Licenses with specifications mentioned below and as per direction of Engineer-in-charge. Windows 10 Professional (OEM License)	1	Nos	11000	11000.00	12100	12100
3.97	Sensor	1	Nos	140000	140000.00	154000	154000
3.98	Sensor mount	1	Nos	25000	25000.00	27500	27500
3.99	Cables / Connectors for the Video on Lotus Pond Media Extension (HDMI) Power Cables Power Extension and Switches Network Cabling HDMI converter. 2	1	Set	5000	5000.00	5500	5500
4	Speaker	1	Nos	55000	55000.00	60500	60500
4.01	Software Programming for Video on Pond: It is the process of designing and building an executable computer program for accomplishing a specific computing task. Programming involves tasks such as: analysis, generating algorithms, profiling algorithms' accuracy and resource consumption, and the implementation of algorithms in a chosen programming language (commonly referred to as coding). The source code of a program is written in one or more languages that are intelligible to programmers, rather than machine code, which is directly executed by the central processing unit. The purpose of programming is to find a sequence of instructions that will automate the performance of a task (which can be as complex as an operating system) on a computer, often for solving a given problem. The process of programming thus often requires expertise in several different subjects, including knowledge of the application domain, specialized algorithms, and formal logic. It interfaces all the pages of the book in a interactive way, pages are combinations of static images and videos.	1	Nos	850000	850000.00	935000	935000
4.02	Asset Integration for Interactive Lotus Pond	1	Nos	60000	60000.00	66000	66000
4.03	Testing / Compilation for Video on Interactive Pond: It is an investigation conducted to provide stakeholders with information about the quality of the software product or service under test. Software testing can also provide an objective, independent view of the software to allow the business to appreciate and understand the risks of software implementation. Test techniques include the process of executing a program or application with the intent of finding software bugs (errors or other defects), and verifying that the software product is fit for use.	1	Nos	110000	110000.00	121000	121000
4.04	Experience design	1	No	120000	120000.00	132000	132000
4.05	Storyboard design	1	No	35000	35000.00	38500	38500
4.06	Sound Design	1	No	35000	35000.00	38500	38500
4.07	3D Animation , VFX, Sound for Lotus pond	300	Seconds	4000	1200000.00	4400	1320000
4.08	Rendering	7500	Frames	411	3082500.00	452.1	3390750
4.09	Integration / Installation for Lotus Pond	1	Nos	120000	120000.00	132000	132000
4.1	Supply and installation of Computer Intel Core i5 with specifications mentioned below and as per direction of Engineer-in-charge. Brand and Model Gigabyte Brix or Similar RAM 8GB DOR4 Storage 250GB NVME Display Adapter Intel Graphics	4	Nos	55000	220000.00	60500	242000

4.11	Supply and installation of Licenses with specifications mentioned below and as per direction of Engineer-in-charge: Windows 10 Professional (OEM License)	4	Nos	11000	44000.00	12100	48400
4.12	Supply and installation for Samsung 24" touch screen	4	Nos	35000	140000.00	38500	154000
4.13	Cables / Connectors for the Video on Transparent Display box Media Extension (HDMI) Power Cables Power Extension and Switches Network Cabling	4	Set	5000	20000.00	5500	22000
4.14	Software Programming for Animal Kingdom	1	Nos	760000	760000.00	836000	836000
4.15	Asset Integration for Kingdom	1	Nos	60000	60000.00	66000	66000
4.16	Testing / Compilation for Animal Kingdom	1	Nos	110000	110000.00	121000	121000
4.17	Game design	1	No.	90000	90000.00	99000	99000
4.18	Storyboard design	1	No.	80000	80000.00	88000	88000
4.19	Sound Design	1	No.	35000	35000.00	38500	38500
4.2	3D Animation , VFX, Sound for Animal Kingdom	300	Seconds	4000	1200000.00	4400	1320000
4.21	Rendering	7500	Frames	411	3082500.00	452.1	3390750
4.22	Integration / Installation for Video on Animal Kingdom	1	Nos	120000	120000.00	132000	132000
4.23	Supply and installation of Computer Intel Core i5 with specifications mentioned below and as per direction of Engineer-in-charge.Brand and Model Gigabyte Brix or SimilarRAM 8GB DDR4 Storage 250GB NVME Display Adapter Intel Graphics	1	Nos	55000	55000.00	60500	60500
4.24	Supply and installation of Licenses with specifications mentioned below and as per direction of Engineer-in-charge: Windows 10 Professional (OEM License)	1	Nos	11000	11000.00	12100	12100
4.25	Supply and installation of Projector with specifications mentioned below and as per direction of Engineer-in-charge.	1	Nos	545000	545000.00	599500	599500
4.26	Projector Mount	1	nos	5000	5000.00	5500	5500
4.27	Cables / Connectors for the Video on Projector Media Extension (HDMI) Power Cables Power Extension and Switches Network Cabling	1	Set	3000	3000.00	3300	3300
4.28	Software Programming for Video on Led Wall : It is the process of designing and building an executable computer program for accomplishing a specific computing task. Programming involves tasks such as: analysis, generating algorithms, profiling algorithms' accuracy and resource consumption, and the implementation of algorithms in a chosen programming language (commonly referred to as coding). The source code of a program is written in one or more languages that are intelligible to programmers, rather than machine code, which is directly executed by the central processing unit. The purpose of programming is to find a sequence of instructions that will automate the performance of a task (which can be as complex as an operating system) on a computer, often for solving a given problem. The process of programming thus often requires expertise in several different subjects, including knowledge of the application domain, specialized algorithms, and formal logic. It interfaces all the pages of the book in a interactive way, pages are combinations of static images and videos.	1	Nos	350000	350000.00	385000	385000
4.29	Asset Integration for Video on Led Wall	1	Nos	60000	60000.00	66000	66000
4.3	Testing / Compilation for Video on Led Wall : It is an investigation conducted to provide stakeholders with information about the quality of the software product or service under test. Software testing can also provide an objective, independent view of the software to allow the business to appreciate and understand the risks of software implementation. Test techniques include the process of executing a program or application with the intent of finding software bugs (errors or other defects), and verifying that the software product is fit for use.	1	Nos	250000	250000.00	275000	275000

4.31	Script design	1	No	70000	70000.00	77000	77000
4.32	Storyboard design	1	No	80000	80000.00	88000	88000
4.33	Sound Design	1	No	35000	35000.00	38500	38500
4.34	3D Animation , VFX, Sound for Video on Led Wall	270	Seconds	3125	843750.00	3437.5	928125
4.35	Rendering	6750	Frames	411	2774250.00	452.1	3051675
4.36	Integration / Installation for Video on Led Wall	1	Nos	120000	120000.00	132000	132000
4.37	Supply and installation of Computer Intel Core i5 with specifications mentioned below and as per direction of Engineer-in-charge. Brand and Model Gigabyte Brix or Simillar RAM 8GB DDR4 Storage 250GB NVME Display Adapter Intel Graphics	1	Nos	50000	50000.00	55000	55000
4.38	Supply and installation of Licenses with specifications mentioned below and as per direction of Engineer-in-charge: Windows 10 Professional (OEM License)	1	Nos	16000	16000.00	17600	17600
4.39	Supply and installation of Projector with specifications mentioned below and as per direction of Engineer-in-charge.	1	Nos	300000	300000.00	330000	330000
4.4	Projector Mount	1	nos	5000	5000.00	5500	5500
4.41	Supply and installation for Samsung 19" screen	1	Nos	20000	20000.00	22000	22000
4.42	Cables / Connectors for Auditorium Media Extension (HDMI) Power Cables Power Extension and Switches Network Cabling	1	Set	3000	3000.00	3300	3300
4.43	Speaker	1	Nos	60000	60000.00	66000	66000
4.44	Supply and installation of Computer Intel Core i7 with specifications mentioned below and as per direction of Engineer-in-charge. Brand and Model Gigabyte Brix or Simillar RAM 8GBx2 Hyperx Fury 3200MHz Storage 512GB NVME Display Adapter Gigabyte GeForce RTX 3060 Gaming OC 8GB GDDR6 Network Adapter Gigabit Ethernet LAN 10/100/100	1	Nos	120000	120000.00	132000	132000
4.45	Camera	1	Nos	12000	12000.00	13200	13200
4.46	Bumped, coaxial two-way point source loudspeaker with a single 12-15" LF driver and compression driver with 3" or better Voice coil. Frequency Range (-10dB) of 60Hz - 20kHz or better & long term Continuous Power Handling of 300W (Low frequency) and 45W for High Frequency driver or better. The Loudspeaker module shall have a Max. SPL (Peak) of MF/HF >= 131 or better. It should have Horizontal dispersion pattern of 110° or better, vertical dispersion of the loudspeaker shall be 60 degrees or better. The loudspeaker shall be enclosed in a Baltic birch plywood enclosure with perforated steel grille.	2	Nos.	300000	600000.00	330000	660000
4.47	Multipurpose subwoofer with a single 15" neodymium LF driver. Frequency Range (-10dB) of 35Hz - 130Hz or better & long term Continuous Power Handling of 500W or better. It should have an axial Sensitivity of >= 90dB (1W/1m) or more delivering a free field Max. Calculated SPL(peak) of >= 124db or better. The loudspeaker should have a nominal impedance of 8 ohm or more. The loudspeaker shall be enclosed in a Baltic birch plywood enclosure with perforated steel grille. Complete with installation as per the site requirement.	2	Nos.	275000	550000.00	302500	605000
4.48	Active Portable loudspeaker system with 2 combo XLR-1/4" inputs, 3.5 mm input, Bluetooth inputs and 1/4" TRS line output with 11 hours of play time using the rechargeable lithium ion battery with Freq Response 62Hz - 17kHz and 109dB peak SPL, 120 H x 50V Nominal coverage.	2	Nos.	125000	250000.00	137500	275000
4.49	Two-way Small Format high SPL IP55 rated (as per IEC 60529) all weather surface mount loudspeaker. The loudspeaker shall meet the following performance criteria: Frequency Range (-10 dB) of 90 Hz - 18 kHz or better; Nominal Dispersion : 100°H x 100°V; Power	2	Nos.	90000	180000.00	99000	198000

	handling of 400W peak or more; Sensitivity : 90 dB and the Max SPL : 118dB Peak or better; Nominal impedance of 8 ohms and Integral multi-tap Transformer with selectable tap settings of 10/20/40/80 W@70V & 100V. The loudspeaker system shall be comprised of a Powder-coated finish stainless steel grille with Two-part spray polyurea coating Enclosure; Single 5.25-inch woofer; Single 2-inch voice coil high-frequency compression driver; U bracket shall be included						
4.5	Class D amplifier with 2 x 600 W Load-independent outputs deliver full channel power to either low-impedance (4-8 Ω) or high-impedance (70/100V) loads without bridging .Amplifier shall have frequency response of 20 Hz to 20 kHz (+/- 1 dB) for LZ mode, with THD+N at rated power less than 0.04%.The amplifier shall meet or exceed the following performance specifications: channel separation (crosstalk) greater than 80 dB below rated power at 1 kHz. The amplifier shall have 2 line-level inputs with selectable input sensitivity settings (-10 dBV, 4 dBu and 14 dBu) for balanced line-level inputs (6-pin Euroblock connector) and possibility of 4 or more no .of digital Audio channels . The amplifier shall offer a master mute connection for use with external dry contacts, normally open or normally closed, to mute all outputs of the amplifier.	2	Nos.	138529	277058.00	152381.9	304763.8
4.51	Class D amplifier with 2 x 1000 W Load-independent outputs deliver full channel power to either low-impedance (4-8 Ω) or high-impedance (70/100V) loads without bridging .Amplifier shall have frequency response of 20 Hz to 20 kHz (+/- 1 dB) for LZ mode, with THD+N at rated power less than 0.04%.The amplifier shall meet or exceed the following performance specifications: channel separation (crosstalk) greater than 80 dB below rated power at 1 kHz. The amplifier shall have 2 line-level inputs with selectable input sensitivity settings (-10 dBV, 4 dBu and 14 dBu) for balanced line-level inputs (6-pin Euroblock connector) and possibility of 4 or more no .of digital Audio channels . The amplifier shall offer a master mute connection for use with external dry contacts, normally open or normally closed, to mute all outputs of the amplifier.	1	Nos.	180265	180265.00	198291.5	198291.5
4.52	Digital Sound Processor with 8 Mic/Line inputs or more & 8 analog outputs or more , 24 Bit A-D and D-A Convertors; Sampling Rate : 48 kHz; THD : < 0.002 %; Channel Separation (Crosstalk) : < 105 dB ; Frequency Response 20 Hz - 20 kHz ; Signal-to-Noise Ratio 80 dB ,Dynamic Range : > 115 dB; 5 Control Inputs and Outputs; RS-232 and Ethernet Port for third party Control and Monitoring; inbuilt DSP features like Input Equalizers, Router, Band Pass filter, Output Equalizer, Delay, Limiters, gates , Source selectors etc.	1	No.	284754	284754.00	313229.4	313229.4
4.53	Networked and programmable controller; Power supply requirement of 15-24 VDC, 300mA; Four rotatory encoders with circular LED rings for managing gain setting or scene selection; Fifth encoder provides control over programmed scenes or presets; Two line by 40 character backlit LCD provides names of the system elements they are controlling.	1	No.	149778	149778.00	164755.8	164755.8
4.54	Gooseneck mic with mute button	2	Nos.	35600	71200.00	39160	78320
4.55	Wireless Lapel mic	2	Nos.	74500	149000.00	81950	163900
4.56	Wireless Handheld Mic set	2	Nos.	74500	149000.00	81950	163900
4.57	Black anodized, table mic stands , ETC approved	2	Nos.	25600	51200.00	28160	56320
4.58	Mixer for live stage mics as per the no. of mics	1	No.	68556	68556.00	75411.6	75411.6
4.59	2 core 14 AWG/2.5 Sq mm, Twisted, unshielded Speaker cable with stranded annealed bare copper conductors, Semi-rigid PVC insulation, NEC CL3R, CEC CMG, RoHS compliant	350	mtr	205	71750.00	225.5	78925

4.6	2 core Twisted, shielded balanced Audio and control cable with 22AWG or better 7 strand annealed bare copper conductors, Semi-Rigid PVC insulation, Riser rated PVC jacket. UL 444, UL 13 CMR rated	350	mtr	72	25200.00	79.2	27720
4.61	Floor Box for Stage	2	Nos.	5500	11000.00	6050	12100
4.62	Mic port connectivity boxes	2	Nos.	4500	9000.00	4950	9900
4.63	Connectors like LAN, CAT 6Shielded, RCA, XLR etc	1	Lot	150000	150000.00	165000	165000
4.64	12U Rack	1	no	25000	25000.00	27500	27500
4.65	MAIN CURTAIN: Providing & Fixing of Main Curtain in Hitech Velvet Cloth with lining cloth 50% gatherings Satin Border at bottom of 6" and 4" in two pieces (Centre Parting) size 38' x 17' 6"	1	No.	285000	285000.00	313500	313500
4.66	MAIN CURTAIN FRILL : Providing & Fixing of main Curtain Frill in same cloth as main Curtain 50% gatherings & Golden Fringe at Bottom of the Frill size 38' x 4'	1	No.	47500	47500.00	52250	52250
4.67	WINGS: Providing & Fixing of wings in Alluminium Box pipe 70mm X 40mm with two intermediate supports. Rollers to slide the wings. Providing of Alluminium channels to slide the wings. Fixing of Cloth on both sides. Rollers at bottom Size (16' X 4')	6	No.	52500	315000.00	57750	346500
4.68	MID & BACK CURTAIN : Providing & Fixing of Mid & Back Curtain in Fire Retardant casement cloth stretched flat of size 30' x 16'. Fixed to electrical hoisting mechanism.	2	No.	51500	103000.00	56650	113300
4.69	CYCLORAMA: Providing & Fixing of cyclorama in Bombay Dyeing cloth of size 30' x 16' stretched flat. Fixed to Electrical hoisting mechanism.	1	No.	47500	47500.00	52250	52250
4.7	FRILLS: Providing & Fixing of Frills in Drill cloth with 50% gatherings fixed to Grid in 25mm G.I. Pipe suspended by wire rope Size (45' X 4')	3	No.	18500	55500.00	20350	61050
4.71	LIGHT BARS : Providing & Fixing of Light bars in 40 mm G.I. Pipe (Dual Barrel) TF Class with Brackets. M.S. Tray for Electric wire (Size 100mm X 50mm) a) 30 Fts. 3 on stage	3	No.	52500	157500.00	57750	173250
4.72	CENTRE PARTING MECHANISM : Providing & fixing of Centre Parting Mechanism fixed with 1 H.P. 3 Phase Motor Aluminum C Track, 3mm Steel wire rope, runners, M.S. Drum, Reduction Pulley Sets, Wooden Panel, M.S. Angle stand 500 x 50mm (Siemens) contactors, Push Button sets, limit switches, electric wire 2.5 sq mm 7 core as required, a. Main Curtain	1	Nos.	285000	285000.00	313500	313500
4.73	ELECTRIC HOISTING MECHANISM : Providing & Fixing of hoisting Mechanism for- Light Bars (3), Cyclorama (1), Back Curtain (1), Mid Curtain (1), Frills (3) FOHL, with following details. a.) 2 H.P. 3 Phase motor (Navjyot make) b.) Gear Box 40:1 (Elecon) c.) 100mm Pulley Set with Bearings one way two way, three way, four way, five way d.) Guide Pulley sets e.) 6mm steel wire rope. Approx 400ft. f.) 75mm x 50mm M.S. Stand g.) M.S. Drum 9" dia h.) Limit switches with Plate & Rods i.) Electric wire 2.5 sq mm 8 core j.) Panel Board with siemens/L&T Contactors k.) Pedestal Bearing 2 Nos. l.) G.I. Pipe 25mm	9	Nos.	275000	2475000.00	302500	2722500
4.74	PIPE GRID: Providing & Fixing of Pipe Grid to be suspended from ceiling in M.S. Flat of 40mm x 5mm. The grid to be provided G.I. Pipe of 50mm 'B' Class. M.S. 'C' Channel of 75mm x 40mm on three sides. Painting etc complete. Size (38' x 30'	100	Sq Mt.	6900	690000.00	7590	759000

4.75	Providing and Fixing LED PAR 102m per design and drawing etc complete	24	Nos	8250	198000.00	9075	217800
4.76	Providing and fixing the LED sharp lights as per design and drawing etc complete	2	Nos	102850	205700.00	113135	226270
4.77	Providing and Fixing LED fresnel spot light 200 w. as per drawing etc complete	2	Nos	73425	146850.00	80767.5	161535
4.78	Providing and fixing a LED Blinder 400 watt as per drawing etc complete	6	Nos	38720	232320.00	42592	255552
4.79	Providing and fixing a Four gold LED PAR FOH. As per design etc complete	6	Nos	6490	38940.00	7139	42834
4.8	LED profile light	2	Nos	28820	57640.00	31702	63404
4.81	LED follow light DMX	1	No	53900	53900.00	59290	59290
4.82	LED PAR RGBW	6	Nos	10450	62700.00	11495	68970
4.83	MINI perf board console AVO LIGHT CONSOLE	1	No	64900	64900.00	71390	71390
4.84	Supply laying in pvc. Conduit 2 core XLR cable. Approx.	300	Mtrs	161	48300.00	177.1	53130
4.85	Supply fixing XLR or socket male & female 1 No with m.s box	16	Nos	1595	25520.00	1754.5	28072
4.86	Supply,fixing splitter 8 way	1	No	19800	19800.00	21780	21780
4.87	SITC of G.I pipe earth electrode,backfill compound,chamber cover.	1	No	21450	21450.00	23595	23595
4.88	SITC of main LT panel 1 No 100 A 4 pole MCCB 25 ka 1 No 100 A TPN bus bar alu. 3 Nos 40 A 4 pole MCB 10 ka 6 Nos 20 A 2 pole RCBO 30 mA 39 Nos 10/16 A SPMCB 10 ka 1 Set R.Y.B Lamps,Volt meter, Ammeter,KWH meter floor mounting type with stand below top and bottom cable entries,powder coated paint,vermin proof,door lock,earth studs 2	1	nos	21450	21450.00	23595	23595
4.89	Supply,fixing 16 A / 6 A socket Anchor brand with m.s box. Section as per requirement etc complete	36	nos	688	24768.00	756.8	27244.8
4.9	Supply,fixing circuit wiring 3 Nos 2.5 sq mm. copper FRLSHS,ISI wires in rigid, PVC MMS,ISI conduit. Approx.	1200	nos	180	216000.00	198	237600
4.91	Providing different types of books such as historical, mythological, educational, current affairs, general knowledge, dictionary, Balasaheb Thackeray's journey and many types at Library area (1100 BOOKS)	1	SET	800000	800000.00	880000	880000
4.92	Supplying and providing synthetic carpet of 450 gsm of approved colour with pesting on surface as per direction of engineer incharge complete	380	Sq.Mt.	1250	475000.00	1375	522500
4.93	FRP design as per Architect and Vendor Specification / Design FRP with approved paint finish ,Providing, supplying and fixing of FRP item -of required shape and size as per the specifications by the vendor and design provided by the architect .The cladding should withstand external pressure with interlocking arrangements, with lifting eyebolts.And as per specifications mentioned in the Technical specifications and product features excluding GST, children zone-pedu	1	NOS	125000	125000.00	137500	137500
4.94	FRP design as per Architect and Vendor Specification / Design FRP with approved paint finish ,Providing, supplying and fixing of FRP item - of required shape and size as per the specifications by the vendor and design provided by the architect .The cladding should withstand external pressure with interlocking arrangements, with lifting eyebolts.And as per specifications mentioned in the Technical specifications and product features excluding GST-sounds of jungle tree	1	NOS	125000	125000.00	165000	165000
4.95	FRP design as per Architect and Vendor Specification / Design FRP with approved paint finish ,Providing, supplying and fixing of FRP item - of required shape and size as per the specifications by the vendor and design provided by the architect .The cladding should withstand external pressure with interlocking	1	NOS	75000	75000.00	82500	82500

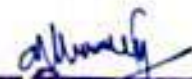
	arrangements, with lifting eyebolts. And as per specifications mentioned in the Technical specifications and product features excluding GST-Apollo Prop.						
4.96	FRP design as per Architect and Vendor Specification / Design FRP with approved paint finish, Providing, supplying and fixing of FRP Item -of required shape and size as per the specifications by the vendor and design provided by the architect. The cladding should withstand external pressure with interlocking arrangements, with lifting eyebolts. And as per specifications mentioned in the Technical specifications and product features excluding GST-Astronaut costume	1	NOS	100000	100000.00	110000	110000
4.97	FRP design as per Architect and Vendor Specification / Design FRP with approved paint finish, Providing, supplying and fixing of FRP Item -of required shape and size as per the specifications by the vendor and design provided by the architect. The cladding should withstand external pressure with interlocking arrangements, with lifting eyebolts. And as per specifications mentioned in the Technical specifications and product features excluding GST-solar system planets	1	NOS	125000	125000.00	302500	302500
4.98	Providing and Fixing brass work for the balasaheb Thackrey cut out & project Title letter box at main entry of structure etc complete	1	NOS	150000	150000.00	165000	165000
				484312445.94		567116525.3	

नमूद कामाकरीता मे. शायोना कॉर्पोरेशन यांनी वरील दराची निविदा सादर केली आहे. परंतु सदरचे दर हे अंदाजपत्रकिय दरोडा जास्तीचे असल्याने कंत्राटदार यांनी दरवाटाघाटीनंतर 16.32% दर कमी करून दिलेले असून त्यानुसार सदर निविदा रक्कम ही रु.40,53,15,728/- एवढी होत आहे.

सदर कमी केलेल्या दरानुसार निविदा रक्कम रु.40,53,15,728/- एवढी होत असून मे. शायोना कॉर्पोरेशन यांची मंजूर रकमे एवढीच निविदा रक्कम होत आहे. नगरविकास विभागाकडील शासन निर्णय व मा. जिल्हाधिकारी ठरणे यांचेकडील प्रशासकिय मान्यतेच्या आदेशात नमूद केल्यानुसार वितरीत निधी व्यतिरिक्त उर्वरीत निधी प्रतिवर्षी वितरीत करण्यात येणार असल्याने त्यानुसार प्राप्त तरतूदीच्या मर्यादेत टप्प्याटप्प्याने कामे हाती घेण्यात येतील ही अट नमूद करून कार्यदेश देण्यात येतील.

नगरविकास विभाग, शासन आदेश क्रमांक एमसीओ-2020/प्र.क्र.71 (भाग-2)/नवि-14 दि.26 ऑगस्ट 2022 अन्वये महाराष्ट्र महानगरपालिका अधिनियम तरतुद व विशेषतः कलम 452 अ च्या (1 अ) व (1 ब) मधील तरतुदीनुसार मा.आयुक्त यांची प्रशासक पदी नियुक्ती करण्यात आली असून त्यांना अधिनियमातील सर्व अधिकार प्राप्त झाले आहेत. सदर अधिकारात वरील कामांस महाराष्ट्र महानगरपालिका अधिनियम मधील कलम 73 (क) नुसार प्रशासकीय ठरावाव्दारे मान्यता देण्याचा प्रस्ताव प्रशासनाने सादर केला आहे.

वरील कामाबाबतची पुढील कार्यवाही नियमानुसार संबंधित विभागाने विहित पध्दतीने करावी.


(वासुदेव शिर्षळकर)
नगरसचिव

मिरा भाईंदर महानगरपालिका
प्रत बांधकाम विभागाकडे योग्य त्या कार्यवाहीसाठी रवाना


(राधाबिनीद/शर्मा, भावक)
प्रशासक तथा आयुक्त
मिरा भाईंदर महानगरपालिका

मिरा भाईंदर महानगरपालिका

आस्थापना विभाग

(गोषवारा) दि. 29/03/2024

प्रकरण क्र. ४६० मिरा भाईंदर महानगरपालिकेच्या सार्वजनिक आरोग्य विभागात, नागरी आरोग्य केंद्रामध्ये ठोक मानधनावर कार्यरत असलेल्या वैद्यकीय अधिकारी/कर्मचारी, विविध विभागामध्ये कार्यरत ऑडिट लिपीक व पशुसंवर्धन विभागामध्ये कार्यरत अधिकारी/कर्मचारी यांच्या नियुक्तीचे नविकरण करणेबाबत.

मिरा भाईंदर महानगरपालिकेच्या सार्वजनिक आरोग्य विभागामध्ये नागरी आरोग्य केंद्रातील ठोक मानधनावर कार्यरत वैद्यकीय अधिकारी, औषध निर्माण अधिकारी, अधिपरिचारीका, क्ष-किरण तंत्रज्ञ, प्रसविका, शस्त्रक्रिया गृहपरिचर व बहुउद्देशीय आरोग्य कर्मचारी, विविध विभागामध्ये कार्यरत ऑडिट लिपीक व पशुसंवर्धन विभागामध्ये कार्यरत पशुवैद्यकीय अधिकारी यांचे प्रशासकीय सभा दि.14/03/2024, ठराव क्र.462 अन्वये नियुक्तीचे नविकरण करण्यात आले आहे. सदरची मुदत दि.31/12/2024 रोजी संपुष्टात येत आहे. त्यानुसार खालील कर्मचाऱ्यांच्या नियुक्तीचे नविकरण करणेबाबत मा.आयुक्त महोदय यांनी दि.18/03/2025 रोजी मंजूरी दिलेली आहे.

अ. क्र.	नाव व पदनाम	पदनाम	मुदत संपुष्टात येणारी दिनांक	खंड दिनांक	नव्याने नियुक्ती दिनांक
1.	डॉ. सिध्दांत दोंडे, वैद्यकीय अधिकारी	रु.80,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
2.	डॉ. रमेश मौरी, वैद्यकीय अधिकारी	रु.80,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
3.	डॉ. नितीन चक्रवर्ती, वैद्यकीय अधिकारी	रु.80,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
4.	डॉ. गुंजन बोरसे, वैद्यकीय अधिकारी	रु.80,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
5.	डॉ. भूमिका राऊत, वैद्यकीय अधिकारी	रु.80,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
6.	डॉ. उमेश सिंग, बालरोग तज्ञ	रु.82,192/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
7.	डॉ. पांडुरंग माने, वैद्यकीय अधिकारी	रु.43,990/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
8.	सुलभा गौवर्धन दराडे, परिसेविका	रु.38,654/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
9.	जया सकेत वतक, परिसेविका	रु.38,654/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
10.	विद्या धसाडे, अधिपरिचारीका	रु.38,410/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
11.	बेबी लालसिंग आडे, अधिपरिचारीका	रु.38,410/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025

अ. क्र.	नाव व पदनाम	पदनाम	मुदत संपुष्टात येणारी दिनांक	खंड दिनांक	नव्याने नियुक्ती दिनांक
12.	बबीता सुखदेव जाधव, अधिपरिचारीका	रु.38,410/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
13.	प्रजा कवडे, अधिपरिचारीका	रु.38,410/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
14.	प्रदिप वाघेरा, अधिपरिचारीका	रु.38,410/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
15.	प्रजा ठवळे, अधिपरिचारीका	रु.38,410/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
16.	सुनिता निकम, अधिपरिचारीका	रु.38,410/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
17.	हुदेश सौडे, क्ष-किरण तंत्रज्ञ	रु.36,581/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
18.	शिवाजी व्यंकट वाकोरे, शस्त्रक्रिया गृह परिचर	रु.19,814/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
19.	सकीना घांड सय्यद, शस्त्रक्रिया गृह परिचर	रु.19,814/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
20.	प्रकाश शिंदे, बहुउद्देशीय आरोग्य कर्मचारी	रु.23,097/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
21.	सचिन सुपुगडे, ऑडिट लिपीक	रु.20,633/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
22.	रविनाथ शिवगण, ऑडिट लिपीक	रु.20,633/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
23.	सुशांत सुर्वे, ऑडिट लिपीक	रु.20,633/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
24.	हेमाली बावकर, ऑडिट लिपीक	रु.20,633/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
25.	डॉ. विक्रम निराटले, पशुवैद्यकीय अधिकारी	रु.60,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
26.	डॉ. शितल भोवे, पशुवैद्यक	रु.50,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
27.	श्रीम. जयश्री कोटे, प्रसविका	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
28.	श्री. अशदा शिरसाट, प्रसविका	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
29.	श्रीम. आमपाली बंडे, प्रसविका	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
30.	श्रीम. हर्षदा भोर्डे, प्रसविका	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
31.	श्रीम. आरोही पाटील, प्रसविका	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
32.	श्री. स्वप्नाली चोरडेकर, प्रसविका	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025

अ. क्र.	नाव व पदनाम	पदनाम	मुदत संपुष्टात येणारी दिनांक	खंड दिनांक	नव्याने नियुक्ती दिनांक
33.	श्रीम. प्रितम मळेवाडकर, प्रसविका	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
34.	श्रीम. किरण पंडितकर, प्रसविका	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
35.	श्रीम. हुलुबाई देवकर्ते, प्रसविका	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
36.	श्रीम. पुजा सोनकांबळे, प्रसविका	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
37.	श्रीम. टिंकल पाटील, औषध निर्माण अधिकारी	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
38.	श्रीम. पालवी म्हात्रे, औषध निर्माण अधिकारी	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
39.	श्रीम.शिवरुद्र मठपती, औषध निर्माण अधिकारी	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025

महाराष्ट्र महानगरपालिका अधिनियमातील तरतुदी व विशेषतः कलम 452 अ च्या (1 अ) व (1 ब) मधील तरतुदीनुसार दि.27/08/2022 रोजी मुदत संपत असल्याने शासन आदेश क्रमांक :-एमसीओ-2020/प्र.क्र.71(भाग-2)/नवि-14, दि.26 ऑगस्ट, 2022 अन्वये आयुक्त, मिरा भाईंदर महानगरपालिका यांची प्रशासक म्हणून नेमणूक करण्यात आलेली आहे.

वरील तक्त्यामध्ये नमुद अ.क्र.01 ते 39 वैद्यकीय अधिकारी/ कर्मचारी, पशुवैद्यकीय अधिकारी व ऑडिट लिपीक यांना दि.01/01/2025 रोजी तांत्रिक खंड देण्यात आलेला आहे.

सदर कर्मचारी सदयस्थितीत संबंधित विभागामध्ये हजर राहून कामकाज करत असल्याने त्यांना दि.01/01/2025 रोजी तांत्रिक खंड देऊन दि.02/01/2025 पासून ठराव होईपर्यंतच्या दिनांकापर्यंत कार्योत्तर मंजूरी मिळणेस तसेच दि.02/01/2025 ते दि.01/07/2025 पर्यंत 06 महिन्यांकरीता नियुक्तीचे नविकरण करून आर्थिक व प्रशासकीय मान्यता मिळणेबाबतचा गोपवारा मा.प्रशासक यांचेकडे मंजूरीकरीता पाठविणेस मान्यतेस्तव सविनय सादर.

(मा.आयुक्त महोदय यांचे मान्यतेने)


(कल्पिता पिंपळे)

उप-आयुक्त (मुख्यालय)
मिरा भाईंदर महानगरपालिका

मिरा भाईंदर महानगरपालिका

आस्थापना विभाग

दि. २९/०३/२०२५

प्रकरण क्र. ४६० मिरा भाईंदर महानगरपालिकेच्या सार्वजनिक आरोग्य विभागात, नागरी आरोग्य केंद्रामध्ये ठोक मानधनावर कार्यरत असलेल्या वैद्यकीय अधिकारी/कर्मचारी, विविध विभागामध्ये कार्यरत ऑडिट लिपीक व पशुसंवर्धन विभागामध्ये कार्यरत अधिकारी/कर्मचारी यांच्या नियुक्तीचे नविकरण करणेबाबत.

कार्यालयीन प्रस्ताव

मिरा भाईंदर महानगरपालिकेच्या सार्वजनिक आरोग्य विभागामध्ये नागरी आरोग्य केंद्रातील ठोक मानधनावर कार्यरत वैद्यकीय अधिकारी, औषध निर्माण अधिकारी, अधिपरिचारीका, क्ष-किरण तंत्रज्ञ, प्रसविका, शस्त्रक्रिया गृहपरिचर व बहुउद्देशीय आरोग्य कर्मचारी, विविध विभागामध्ये कार्यरत ऑडिट लिपीक व पशुसंवर्धन विभागामध्ये कार्यरत पशुवैद्यकीय अधिकारी यांचे प्रशासकीय सभा दि.१४/०३/२०२४, ठराव क्र.४६२ अन्वये नियुक्तीचे नविकरण करण्यात आले आहे. सदरची मुदत दि.३१/१२/२०२४ रोजी संपुष्टात येत असलेबाबत संबंधित विभागांना पत्रान्वये कळविण्यात आले आहे. त्यानुसार संबंधित विभागाकडून सदर कर्मचार्यांची विभागाकरीता आवश्यकता असून त्यांना मुदतवाढ देणेबाबत कळविले आहे.

सदर कर्मचार्यांची मुदत दि.३१/१२/२०२४ रोजी संपुष्टात येत असल्याने तसेच संबंधित विभागांना सदर कर्मचार्यांची आवश्यकता असल्याने नियुक्तीचे नविकरण करणे आवश्यक आहे.

अ. क्र.	नाव व पदनाम	पदनाम	मुदत संपुष्टात येणारी दिनांक	खंड दिनांक	नव्याने नियुक्ती दिनांक
१.	डॉ. सिध्दांत दौदे, वैद्यकीय अधिकारी	रु.८०,०००/-	दि.३१/१२/२०२४	दि.०१/०१/२०२५	दि.०२/०१/२०२५ ते दि.०१/०७/२०२५
२.	डॉ. रमेश मौरी, वैद्यकीय अधिकारी	रु.८०,०००/-	दि.३१/१२/२०२४	दि.०१/०१/२०२५	दि.०२/०१/२०२५ ते दि.०१/०७/२०२५
३.	डॉ. नितीन चक्रवर्ती, वैद्यकीय अधिकारी	रु.८०,०००/-	दि.३१/१२/२०२४	दि.०१/०१/२०२५	दि.०२/०१/२०२५ ते दि.०१/०७/२०२५
४.	डॉ. गुंजन बोरसे, वैद्यकीय अधिकारी	रु.८०,०००/-	दि.३१/१२/२०२४	दि.०१/०१/२०२५	दि.०२/०१/२०२५ ते दि.०१/०७/२०२५
५.	डॉ. भूमिका राऊत, वैद्यकीय अधिकारी	रु.८०,०००/-	दि.३१/१२/२०२४	दि.०१/०१/२०२५	दि.०२/०१/२०२५ ते दि.०१/०७/२०२५
६.	डॉ. उमेश सिंग, बालरोग तज्ज्ञ	रु.८२,१९२/-	दि.३१/१२/२०२४	दि.०१/०१/२०२५	दि.०२/०१/२०२५ ते दि.०१/०७/२०२५
७.	डॉ. पांडुरंग माने, वैद्यकीय अधिकारी	रु.४३,९९०/-	दि.३१/१२/२०२४	दि.०१/०१/२०२५	दि.०२/०१/२०२५ ते दि.०१/०७/२०२५

अ. क्र.	नाव व पदनाम	पदनाम	मुदत संपुष्टात येणारी दिनांक	खंड दिनांक	नव्याने नियुक्ती दिनांक
8.	सुलभा गोवर्धन दराडे, परिसेविका	रु.38,654/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
9.	जया सकेत वर्तक, परिसेविका	रु.38,654/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
10.	विद्या धसाडे, अधिपरिचारीका	रु.38,410/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
11.	बेबी लालसिंग आडे, अधिपरिचारीका	रु.38,410/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
12.	बबीता सुखदेव जाधव, अधिपरिचारीका	रु.38,410/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
13.	प्रजा कवडे, अधिपरिचारीका	रु.38,410/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
14.	प्रदिप वाघेरा, अधिपरिचारीका	रु.38,410/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
15.	प्रजा ढवळे, अधिपरिचारीका	रु.38,410/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
16.	सुनिता निकम, अधिपरिचारीका	रु.38,410/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
17.	इदेश सांडे, क्ष-किरण तंत्रज्ञ	रु.36,581/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
18.	शिवाजी व्यंकट वाकोरे, शस्त्रक्रिया गृह परिचर	रु.19,814/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
19.	सकीना घांड सय्यद, शस्त्रक्रिया गृह परिचर	रु.19,814/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
20.	प्रकाश शिंदे, बहुउद्देशीय आरोग्य कर्मचारी	रु.23,097/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
21.	सचिन सुपुगडे, ऑडिट लिपीक	रु.20,633/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
22.	रविनाथ शिवगण, ऑडिट लिपीक	रु.20,633/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
23.	सुरांत सुर्वे, ऑडिट लिपीक	रु.20,633/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
24.	हेमाली बावकर, ऑडिट लिपीक	रु.20,633/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
25.	डॉ. विक्रम निराटले, पशुवैद्यकीय अधिकारी	रु.60,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
26.	डॉ. शितल भोये, पशुवैद्यक	रु.50,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025

अ. क्र.	नाव व पदनाम	पदनाम	मुदत संपुष्टात येणारी दिनांक	खंड दिनांक	नव्याने नियुक्ती दिनांक
27.	श्रीम. जयश्री कोटे, प्रसविका	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
28.	श्री. अक्षदा शिरसाट, प्रसविका	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
29.	श्रीम. आमपाली बंडे, प्रसविका	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
30.	श्रीम. हर्षदा भोईर, प्रसविका	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
31.	श्रीम. आरोही पाटील, प्रसविका	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
32.	श्री. स्वप्नाली चोरडेकर, प्रसविका	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
33.	श्रीम. प्रितम मळेवाडकर, प्रसविका	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
34.	श्रीम. किरण पंडितकर, प्रसविका	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
35.	श्रीम. हुलुबाई देवकल्ले, प्रसविका	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
36.	श्रीम. पुजा सोनकांबळे, प्रसविका	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
37.	श्रीम. टिंकल पाटील, औषध निर्माण अधिकारी	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
38.	श्रीम. पालवी म्हात्रे, औषध निर्माण अधिकारी	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025
39.	श्रीम.शिवरुद्र मठपती, औषध निर्माण अधिकारी	रु.20,000/-	दि.31/12/2024	दि.01/01/2025	दि.02/01/2025 ते दि.01/07/2025

सार्वजनिक आरोग्य विभागातील अधिकारी/कर्मचारी यांचे वेतन "अस्थायी आस्थापना" या लेखाशिर्षातील तरतुदीमधून खर्च होत असून ऑडिट लिपीक, पशुवैद्यकीय अधिकारी व पशुवैद्यक यांचे वेतन आस्थापना विभाग "अस्थायी आस्थापना" या लेखाशिर्षातील तरतुदीमधून खर्च होत आहे.

वरील तक्त्यामध्ये नमुद अ.क्र.01 ते 39 वैद्यकीय अधिकारी/ कर्मचारी, पशुवैद्यकीय अधिकारी व ऑडिट लिपीक यांना दि.01/01/2025 रोजी तांत्रिक खंड देण्यात आलेला आहे.

सदर कर्मचारी सद्यस्थितीत संबंधित विभागामध्ये हजर राहून कामकाज करत असल्याने त्यांना दि.01/01/2025 रोजी तांत्रिक खंड देऊन दि.02/01/2025 पासून ठराव होईपर्यंतच्या

दिनांकापर्यंत कार्योत्तर मंजूरी मिळणेस तसेच दि.02/01/2025 ते दि.01/07/2025 पर्यंत 06 महिन्यांकरीता नियुक्तीचे नविकरण करून आर्थिक व प्रशासकीय मान्यता मिळावी, असा प्रस्ताव प्रशासनामार्फत सादर करण्यात आलेला आहे.

प्रशासकीय ठराव क्र. ४६० दिनांक २१/०३/२०२५

"मिरा भाईंदर महानगरपालिकेच्या सार्वजनिक आरोग्य विभागात, नागरी आरोग्य केंद्रामध्ये ठोक मानधनावर कार्यरत असलेल्या वैद्यकीय अधिकारी/कर्मचारी, विविध विभागामध्ये कार्यरत ऑडिट लिपीक व पशुसंवर्धन विभागामध्ये कार्यरत अधिकारी/कर्मचारी यांच्या नियुक्तीचे नविकरण करणेबाबतच्या प्रस्तावाचे अवलोकन करण्यात आले.

महाराष्ट्र महानगरपालिका अधिनियमातील तरतुदी व विशेषतः कलम 452 अ च्या (1 अ) व (1 ब) नुसार महाराष्ट्र शासन, नगर विकास विभागाकडील शासन आदेश क्रमांक : एमसीओ 2020/प्र.क्र.71(भाग-2)/नवि-14, दि.26/08/2022 अन्वये प्रशासनाने सादर केलेल्या विषयास अनुसरून "वरील तक्त्यामध्ये नमुद अ.क्र.01 ते 39 वरील कर्मचारी यांना दि.01/01/2025 रोजी तांत्रिक खंड देऊन दि.02/01/2025 पासून ठराव होईपर्यंतच्या दिनांकापर्यंत कार्योत्तर मंजूरी तसेच दि.02/01/2025 ते दि.01/07/2025 पर्यंत 06 महिन्यांकरीता नियुक्तीचे नविकरण करून आर्थिक व प्रशासकीय मंजूरी देण्यात येत आहे."


(वासुदेव शिववळकर)
नगरसचिव
मिरा भाईंदर महानगरपालिका


(राधाबिनोद) अरुण शर्मा, भा.प्र.से.)
आयुक्त तथा प्रशासक
मिरा भाईंदर महानगरपालिका