

# मिरा-भाईंदर महानगरपालिका

## // घनकचरा प्रक्रिया प्रकल्प विभाग //

// गोषवारा // दि. २३/१२/२०२४

प्रकरण क्रमांक (१८५) :- उत्तन येथील घनकचऱ्यावर प्रक्रिया प्रकल्प ठिकाणी शिल्लक असलेल्या घनकचऱ्यावर (Legacy Waste) (Bio - Mining) पध्दतीने विल्हेवाट कामी निविदा मागविणे याकामी येणाऱ्या खर्चास आर्थिक व प्रशासकिय मान्यता मिळणेबाबत...

उत्तन येथील घनकचऱ्यावर प्रक्रिया प्रकल्प ठिकाणी शिल्लक असलेल्या घनकचऱ्याचे (Legacy Waste) (Bio - Mining) सर्वेक्षण करुन मोजमाप घेण्यात आलेले आहे. सदर मोजमाप कॉलेज ऑफ इंजिनिअरींग पुणे यांच्याकडुन प्रमाणित करण्यात आलेले आहे. सदर कचऱ्याचे मोजमाप ७,५६,१२५.४८ घन मिटर असुन ९,०९,६३०.२ MT वजन अंदाजे होते.

शासन निर्णय क्रमांक:- स्वमअ-२०२२/प्र.क्र.९३/नवि-३४ दि.१० ऑगस्ट, २०२२ अन्वये ९,०९,६३०.२ MT आकारमान आले असुन घनकचऱ्यावर (Legacy Waste) (Bio-Mining Legacy Waste Remediation) करण्यास मान्यता दिली असुन सदर कामी ४०.६६ कोटी रकमेस प्रशासकिय मान्यता शासनाद्वारे प्राप्त झाली आहे. सदर कामाचा वित्तिय आकृतीबंध खालीलप्रमाणे आहे.

घनकचऱ्याचे मोजमाप (MT)	प्रकल्पाची एकुण रक्कम (कोटीमध्ये)	केंद्रशासनाचा हिस्सा (कोटीमध्ये)	राज्यशासनाचा हिस्सा (कोटीमध्ये)	महानगरपालिकेचा हिस्सा (कोटीमध्ये)
९०९६३०.२	४०.६६	१३.४२	१५.०४	१२.२०

शासन निर्णयानुसार महाराष्ट्र जीवन प्राधिकरण ठाणे यांच्याकडुन उत्तन येथील घनकचऱ्याचे (Legacy Waste) मोजमाप करुन मुख्य अभियंता महाराष्ट्र जीवन प्राधिकरण यांनी सदर कामाचा तांत्रिक मंजूरी आदेश माहे.२० जुन २०२३ रोजी दिलेला आहे.

मे. ई. बी. इन्वायरो बायोटेक प्रा. लि. यांना उत्तन येथील घनकचऱ्यावर (Legacy Waste) Biomining पध्दतीने विल्हेवाट लावणेकामी दि.२२/०२/२०२३ रोजी कामाचा कार्यादेश देण्यात आलेला होता. परंतु सदर कंत्राटदारामार्फत बायोमायनिंगचे काम करारनाम्यातील अटी व शर्तीनुसार पुर्ण न केल्याने सदर कामाचा कार्यादेश दि.११/०९/२०२४ रोजी मा. आयुक्त सो. यांच्या आदेशान्वये रद्द करण्यात आला.

उत्तन येथील प्रकल्प ठिकाणी जुन्या घनकचरा प्रकल्प ठिकाणी (Legacy Waste) येथे दैनंदिन निर्माण होणारे इनर्ट वेस्ट व मिक्स वेस्ट टाकण्यात येत आहे. यामुळे (Legacy Waste) प्रमाणात (Quantity) मध्ये वाढ झालेली आहे.

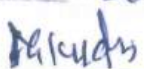
वरील कामाकरीता मागविण्यात येणाऱ्या निविदेतील मंजुर दरात निविदाकाराकडुन वाढलेले (Legacy Waste) बायोमायनिंग करुन घेणे आवश्यक आहे.

सदर कामासाठी अंदाजे रु. ४०,६६,००,०००/- वार्षिक खर्च अपेक्षित आहे. त्यानुसार सदर कामासाठी निविदा मागवून दर निश्चित करावयाचे आहेत. सदर कामी होणारा खर्च सन २०२४-२५ या आर्थिक वर्षाच्या "बायोमायनिंग" या लेखाशीर्षातून करण्यात येणार आहे.

उत्तन येथील घनकचऱ्यावर प्रक्रिया प्रकल्प ठिकाणी शिल्लक असलेल्या घनकचऱ्यावर (Legacy Waste) (Bio - Mining) पध्दतीने विल्हेवाट कामी निविदा मागविणे या कामी होणाऱ्या खर्चास महाराष्ट्र महानगरपालिका अधिनियम अनुसूची "ड" मधील प्रकरण पाच (दोन) (दोन) अन्वये मान्यतेसाठी प्रशासकीय ठरावाद्वारे मान्यता मिळण्यास, सदर कामाची निविदा मागविण्यास व सदर कामी होणाऱ्या खर्चास आर्थिक व प्रशासकीय मान्यता मिळणेस शिफारस आहे.

  
(दिपक खांबित)  
शहर अभियंता  
मिरा-भाईंदर महानगरपालिका

मा. आयुक्त यांच्या मान्यतेने

मा. महासभा / स्थानीय समिती सभा  
मोठ्या क्र. २०/९/२०२४ तारी. ६-१५ वा.  
मोठ्या क्र. १८६ त. २०२४/२५  
  
लिपीक  
२०/९/२४  
सचिव विभाग  
मिरा-भाईंदर महानगरपालिका

# मिरा भाईंदर महानगरपालिका

## // घनकचरा व्यवस्थापन //

प्रशासकिय ठराव दिनांक २३/ ८ /२०२४ रोजी

विषय क्रमांक - ( )  
१५५

मा. आयुक्त महोदयाकडील कामकाज

उत्तन येथील घनकचऱ्यावर प्रक्रिया प्रकल्प ठिकाणी शिल्लक असलेल्या घनकचऱ्यावर (Legacy Waste) (Bio - Mining) पध्दतीने विल्हेवाट कामी निविदा मागविणे याकामी येणाऱ्या खर्चास आर्थिक व प्रशासकिय मान्यता मिळणेबाबत...

### कार्यालयीन प्रस्तावना

उत्तन येथील घनकचऱ्यावर प्रक्रिया प्रकल्प ठिकाणी शिल्लक असलेल्या घनकचऱ्याचे (Legacy Waste) (Bio - Mining) सर्वेक्षण करुन मोजमाप घेण्यात आलेले आहे. सदर मोजमाप कॉलेज ऑफ इंजिनिअरींग पुणे यांच्याकडुन प्रमाणित करण्यात आलेले आहे. सदर कचऱ्याचे मोजमाप ७,५६,१२५.४८ घन मिटर असुन ९,०९,६३०.२ MT वजन अंदाजे होते.

शासन निर्णय क्रमांक:- स्वमअ-२०२२/प्र.क्र.९३/नवि-३४ दि.१० ऑगस्ट, २०२२ अन्वये ९,०९,६३०.२ MT आकारमान आले असुन घनकचऱ्यावर (Legacy Waste) (Bio-Mining Legacy Waste Remediation) करण्यास मान्यता दिली असुन सदर कामी ४०.६६ कोटी रकमेस प्रशासकिय मान्यता शासनाव्दारे प्राप्त झाली आहे. सदर कामाचा वित्तिय आकृतीबंध खालीलप्रमाणे आहे.

घनकचऱ्याचे मोजमाप (MT)	प्रकल्पाची एकुण रक्कम (कोटीमध्ये)	केंद्रशासनाचा हिस्सा (कोटीमध्ये)	राज्यशासनाचा हिस्सा (कोटीमध्ये)	महानगरपालिकेचा हिस्सा (कोटीमध्ये)
९०९६३०.२	४०.६६	१३.४२	१५.०४	१२.२०

शासन निर्णयानुसार महाराष्ट्र जीवन प्राधिकरण ठाणे यांच्याकडुन उत्तन येथील घनकचऱ्याचे (Legacy Waste) मोजमाप करुन मुख्य अभियंता महाराष्ट्र जीवन प्राधिकरण यांनी सदर कामाचा तांत्रिक मंजूरी आदेश माहे.२० जुन २०२३ रोजी दिलेला आहे.

मे. ई. बी. इन्वायरो बायोटेक प्रा. लि. यांना उत्तन येथील घनकचऱ्यावर (Legacy Waste) Biominig पध्दतीने विल्हेवाट लावणेकामी दि.२२/०२/२०२३ रोजी कामाचा कार्यादेश देण्यात आलेला होता. परंतु सदर कंत्राटदारामार्फत बायोमायनिंगचे काम करारनाम्यातील अटी व शर्तीनुसार पुर्ण न केल्याने सदर कामाचा कार्यादेश दि.११/०९/२०२४ रोजी मा. आयुक्त सो. यांच्या आदेशान्वये रद्द करण्यात आला.

उत्तन येथील प्रकल्प ठिकाणी जुन्या घनकचरा प्रकल्प ठिकाणी (Legacy Waste) येथे दैनंदिन निर्माण होणारे इनर्ट वेस्ट व मिक्स वेस्ट टाकण्यात येत आहे. यामुळे (Legacy Waste) प्रमाणात (Quantity) मध्ये वाढ झालेली आहे.

वरील कामाकरीता मागविण्यात येणाऱ्या निविदेतील मंजूर दरात निविदाकाराकडून वाढलेले (Legacy Waste) बायोमायनिंग करून घेणे आवश्यक आहे.

तरी वरीलप्रमाणे होणाऱ्या खर्चास मान्यता देणे व कामाची निविदा मागविण्यासाठी प्रशासकिय ठरावाद्वारे मान्यता देण्याचा प्रस्ताव प्रशासनाने सादर केला आहे.


**प्रशासकीय ठराव क्र. १८५ दिनांक २३/११/२०२४**


उत्तन येथील घनकचऱ्यावर प्रक्रिया प्रकल्प ठिकाणी शिल्लक असलेल्या घनकचऱ्यावर (Legacy Waste) (Bio - Mining) पध्दतीने विल्हेवाट कामी निविदा मागविणे या कामाच्या प्रस्तावाचे अवलोकन करण्यात आले.

महाराष्ट्र महानगरपालिका अधिनियम तरतुदी व विशेषतः कलम ४५२(अ) च्या (१अ) व (१ब) नुसार, महाराष्ट्र शासन, नगरविकास विभागाकडील शासन आदेश क्रमांक :- एमसीओ २०२०/प्र.क्र.७१ (भाग-२)/नवि-१४ दिनांक २६ ऑगस्ट २०२२ अन्वये प्राप्त अधिकारनुसार मी, संजय श्रीपतराव काटकर (भा.प्र.से.), प्रशासक, मिरा भाईंदर महानगरपालिका मा. महानगरपालिका महासभेच्या अधिकाराचा वापर करून प्रशासनाने सादर केलेल्या विषयास अनुसरून मिरा भाईंदर महानगरपालिका क्षेत्रात उत्तन येथील घनकचऱ्यावर प्रक्रिया प्रकल्प ठिकाणी शिल्लक असलेल्या घनकचऱ्यावर (Legacy Waste) (Bio - Mining) पध्दतीने विल्हेवाट लावणे कामाची निविदा मागविणे याकामी आर्थिक व प्रशासकिय मान्यता देण्यात येत आहे.

तसेच उत्तन येथील प्रकल्प ठिकाणी जुन्या घनकचरा प्रकल्प ठिकाणी (Legacy Waste) येथे दैनंदिन निर्माण होणारे इन्ट वेस्ट व मिक्स वेस्ट टाकण्यात येत आहे. यामुळे (Legacy Waste) प्रमाणात (Quantity) मध्ये वाढ झालेली आहे. निविदेतील मंजूर दरात निविदाकाराकडून वाढलेले (Legacy Waste) बायोमायनिंग करून घेणेस याकामी आर्थिक व प्रशासकिय मान्यता तसेच नव्याने निविदा मागविणेस मान्यता देण्यात येत आहे.

वरील कामाबाबतची पुढील कार्यवाही नियमानुसार संबंधित विभागाने विहित पध्दतीने करावी.

  
(वासुदेव शिरकेकर)  
नगरसचिव  
मिरा भाईंदर महानगरपालिका

  
(संजय श्रीपतराव काटकर) (भा.प्र.से.)  
प्रशासक तथा आयुक्त  
मिरा भाईंदर महानगरपालिका

**प्रत: घनकचरा प्रक्रिया प्रकल्प विभागाकडे योग्य त्या कार्यवाहीसाठी रवाना**

# मिरा-भाईंदर महानगरपालिका

## प्रशासकीय ठरावासाठी गोषवारा

// बांधकाम/ विद्युत विभाग // दि. 23/01/2024

**प्रकरण क्रमांक :- (१६)** मिरा भाईंदर महानगरपालिकेच्या सौंदर्यीकरण, सुशोभिकरण या मध्ये भर पडून सार्वजनिक मालमत्ता एकसमान, सुनियोजित व टिकाऊ राहणेसाठी सिटी ब्रँडिंग अंतर्गत धोरण निश्चित करणे.

मिरा भाईंदर हे शहर देशातील नागरीकांना राहण्यासाठी सुनियोजित व सर्व सोयीयुक्त असे शहर तयार करण्याच्या दिशेने महानगरपालिकेची वाटचाल सुरू असून त्यादृष्टीने शहरातील मुलभूत सोई सुविधा विविध प्रकल्प हाती घेऊन कामे करण्यात येत आहेत. सदर कामे ही सुनियंत्रित करण्याच्या दृष्टीने व त्यासाठी निधी उपलब्ध होण्याच्या दृष्टीने देखील विविध उपाययोजना राबविण्यात येत आहेत.

मिरा भाईंदर महानगरपालिकेमध्ये राष्ट्रीय स्तरावरील मिरा भाईंदर @ 2047 परिषद आयोजित करण्यात आली होती. त्यानुसार शहराची ओळख निर्माण होण्यासाठी विविध पायाभूत सुविधांचा विकास सोबत त्या पायाभूत सुविधांच्या ब्रँडिंगला अनन्यसाधारण महत्व आलेले आहे. राष्ट्रीय परिषदेतील धोरणानुसार शहरातील पायाभूत सुविधांचा नवनिर्मितीच्या विविध संकल्पनांचा 'थीम' आधारीत विकास आणि पुनर्रचना करणेसाठी सदरील प्रस्ताव सादर केलेला आहे.

मिरा भाईंदर महानगरपालिकेमार्फत विविध विकासाची कामे पार पाडण्यात येत आहेत. भविष्यात शहराची एक वेगळी ओळख व्हावी यासाठी सिटी ब्रँडिंग या विचारधारेच्या अनुशंगाने महानगरपालिकेमार्फत तयार होणारी मालमत्ता व त्यावरील देखभाल व दुरुस्ती वरील खर्च कमी व्हावा यासाठी विविध उपाययोजना करण्याचे प्रस्तावित आहेत. यासाठी शहरातील व शहराबाहेरील तज्ञ व्यक्ती, संस्था यांचे मार्गदर्शन घेऊन शहरातील रस्ते, फुटपाथ, विविध सार्वजनिक इमारती, स्वच्छतागृहे, स्मशानभूमी/ दफनभूमी, पाण्याच्या टाक्या, मलनिस्सारण केंद्र, उद्याने, मैदाने, दिशादर्शक फलक, रस्त्यावरील संरक्षक कठडे, रेलिंग, वाहतुक बेट, दुभाजक, यांना मालमत्तानिहाय रंगसंगती एकसमान ठेवल्यास शहराच्या सौंदर्यात व सुशोभिकरणात भर पडून या शहराची ओळख शहराबाहेर होण्यास मदत होणार आहे. त्याचप्रमाणे सदर सर्व मालमत्ता टिकाऊ व दर्जेदार होण्यासाठी विविध मालमत्ता बांधकामात वापरण्यात येणारे बांधकाम व इतर साहित्य देखील निश्चित केल्यास भविष्यात त्यावर देखभाल व दुरुस्तीवर होणाऱ्या खर्चात मोठी बचत होणार आहे. त्यानुसार खालीलप्रमाणे रंग व बांधकाम साहित्य इ. वापरण्यास प्रस्तावित करण्यात येत आहे. भविष्यात सदर सर्व बाबींची कामाच्या अंदाजपत्रकात समाविष्ट करून यापुढे सदर योजनेची अंमलबजावणी काटेकोररीत्या करता येईल.

### CITY BRANDING / COLOUR CODE

	COLOUR CODE
Hindu Cemetery	YELLOW
Muslim Dafanbhumi	YELLOW
Christian Burial Ground	YELLOW
Ward Office / MBMC Offices	BLUE+GREY
Community Hall	RED
Municipal School	BLUE+YELLOW
Health Centre	GREEN+WHITE

Hospital	GREEN+WHITE
Fire Station	RED
Market	YELLOW+GREY
Senior Citizen Centre	RED+GREEN
Library/Study Room	RED+WHITE
Playground / Garden	GREEN+WHITE
Overhead Water Tank	GREEN+GREY
Sewerage Treatment Tank	BLUR+GREY
Road Devider	BLCK+WHITE
Road Curbstone	YELLOW
CT/PT	YELLOW+GREY
Foot Path Stamp Concrete	GREY

त्याचप्रमाणे विविध विकासकामे करताना बांधकाम साहित्य हे दर्जेदार व टिकाऊ वापरणेसाठी यापुढे महानगरपालिकेची विकासकामांची अंदाजपत्रके तयार करताना त्यामध्ये खालील बाबी व स्पेसिफिकेशनचा समावेश केल्यास यापुढील कामे दर्जेदार होतील. मा. प्रशासकीय ठराव क्र.125 दि.21/11/2022 अन्वये शहरात बसवावयाचे नामफलक, उद्घाटन फलक, दिशादर्शक फलक यासाठी धोरण निश्चित केलेले आहे. त्याची अंमलबजावणी देखील करण्यात येत आहे. अंदाजपत्रकात समाविष्ट करावयाच्या बाबी खालीलप्रमाणे आहेत.

SR. NO.	DESCRIPTION		LOCATION
FLOORING			
1	CERAMIC TILES FLOORING	Providing and laying <b>matt finish ceramic tiles</b> of having size 30cmx30cm confirming to I.S.15622/2006 (groupDII-A)nd 7 to 8mm thick for flooring in required position laid on a bed of 1:4 cement mortar including cement float,filling joint with white/colour cement slurry cleaning curing etc. complete. SSR 33.24 / 215	Optional/As per design/toilet
2	CERAMIC TILES DADO	Providing and laying <b>ceramic tiles having size 30 cm. x 60 cm.</b> confirming to corresponding I.S. <b>for dado and skirting</b> in required position with readymade adhesive mortar of approved quality on plaster of 1:2 cement mortar including joint filling with white/ colour cement slurry cleaning curing etc. complete. SSR 33.27/215	Toilet dado
3	VITRIFIED TILES FLOORING	Providing and laying <b>vitrified mirror / glossy finish tiles decorative type having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness</b> and confirming to IS. 15622-2006 ( group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete. a) Flooring SSR 33.40 / 217	For multipurpose halls/rooms/lobby

4	<b>VITRIFIED MATT TILES</b>	Providing and laying <b>vitrified matt finish tiles</b> having size 590 mm to 605 mm x to 605 mm of 8 to 10 mm thickness and confirming IS. 15622-2006 (Group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete. SSR 33.42/217	Anti skid type 600 x 600 mm for toilet flooring & wet areas
5	<b>FULL BODY VITRIFIED TILES</b>	Providing and laying <b>full body heavy duty, scratch resistant, high abrasion resistant vitrified mirror / glossy/ matt finish tiles</b> for flooring decorative type having size 800 X 800, 1000 X 1000, 800 X 2400 mm (approved size) etc. of 10 to 12 mm thickness and confirming to IS. 15622-2006 ( group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, approved colour grout, curing and clearing etc. complete. Approved MR	For multipurpose halls/rooms/lobby
6	<b>OUTDOOR VITRIFIED</b>	Supply & Fixing of <b>Rock / Stone Finished outdoor vitrified flooring</b> Tiles 20 mm thick and required width wide in plain pattern including Cement float, filling joints, with neat cement slurry, Natural sand, curing and cleaning complete. with prior approval of concerned Superintending Engineer. SSR 50.13/332	For Outdoor Vitrified tile
7	<b>HAND MADE TILE</b>	Providing and laying <b>hand made tile</b> of various size and approved designs for dado and skirting in required position with readymade adhesive mortar of approved quality on plaster of 1:2 cement mortar including joint filling with white/ colour cement slurry cleaning curing etc. complete. Approved MR	For Decorative wall
8	<b>YELLOW JAISALMER</b>	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 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. 18mm thk. <b>Jaisalmer Stone/ Yellow Marble</b> MCGM R3-CS-FL-28-i	Optional/As per design In lobby/entrance area/hall

9	<b>WHITE MARBLE</b>	<p>Providing and laying polished natural stone as specified below (Machine cut) of an approved quality and size for paving /flooring in plain and/or diamond /approved pattern including cement mortar bedding of 25 mm thick in 1:4 proportion, cement float, machine cutting, dressing, leveling, jointing, filling the joints with neat cement slurry or with required pigment, machine polishing at site, curing, finishing, etc complete as directed by Engineer In Charge.</p> <p>18 mm thk. <b>White marble</b> of superior quality and white cement float</p> <p>MCGM R3-CS-FL-01-e</p>	Optional/As per design In lobby/entrance area/hall
10	<b>GRANITE</b>	<p>Providing and laying in position flooring of <b>telephone black / Amba White / Cat bary brown / Ruby red / Ocean Brown granite stone</b> of approved shade and size <b>18 mm to 20 mm</b> thick on bed 1:6 cement mortar including cement floats striking joints, pointing in C.M. 1:3 curing and cleaning etc. complete.</p> <p>SSR 33.34 / 216</p>	Optional/As per design In lobby/entrance area/hall
11	<b>GRANITE FOR STAIRCASE</b>	<p>Providing and fixing machine cut machine polished <b>18 mm to 20 mm thick telephone black / Amba White / Cat bary brown / RBI red / Ocean Brown granite stone</b> for <b>treads and risers of steps</b> and staircases of approved colour and shade with rounded moulding and <b>three grooved line</b> for the treads on bed of 1:4 Cement mortar including float filling joints with neat cement slurry curing polishing and cleaning etc. complete.</p> <p>SSR 33.35 / 216</p>	For treads
12	<b>VITRIFIED SKIRTING/DADO</b>	<p>Providing and laying <b>vitrified mirror / glossy finish tiles</b> having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness and confirming to IS. 15622-2006 ( group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete.b) <b>Skirting</b></p> <p>SSR 33.41 / 217</p>	For Risers, Dado
13	<b>KOTA FLOORING</b>	<p>Providing and laying machine cut machine Polished <b>Kota stone flooring 25mm to 30mm thick</b> and required width in plain/ diamond pattern on bed of 1:6 C. M. including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete.</p> <p>SSR 33.06 / 213</p>	For Rough Flooring area/outdoor stage/outdoor passage/School Corridor



14	NATURAL WOODEN FLOORING	Providing & fixing wood finished Step seating (Pine wood or equivalent- Avg thickness 30 MM), with base of 8 mm thk Marine grade plywood, Wooden flooring to be laid as per pattern and treated properly with sanding, sealer coating, staining & 2 coats of varnish as directed as per detailed drawings. Approved MR	For Auditorium Building/Stage area/Art Galleries
15	ENGINEERED WOOD FLOORING	<b>Wooden floor tiles</b> (including skirting) Providing & laying Hardwood flooring (strip format) with standard specifications, Board constructed with 3 layers, Top layer of 3 to 6 mm thk veneer, Core material of high density fiber board, and balancing layer, Wood species of as per selection (oak, Walnutm Teak, Ash and other exotic species). The surface to be pre-finished with UV hardner acrylic hardner, free of formaldehyde and solvents. Finish of Top layer to be Matt or Satin or brushed having resistance to house hold chemicals & stains and not to change colour. Approved MR Spec. As directed by Engineer-In-Charge.	For Auditorium Building/Stage area/Art Galleries/VIP Room/Suite
16	CARPET	Providing & Fixing in position, Carpet more than 800+ 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 SSR 51.13/354	Auditorium/Exhibition/Hall
DOOR & WINDOWS			
1	DOOR	Providing and fixing solid core flush door shutter in <b>single leaf 32 mm thick</b> decorative type of exterior grade as per detailed drawings approved face <b>veneers 3 mm thick on both faces</b> or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with <b>brass mortise lock, chromium plated handles on both sides</b> , and finishing with French Polish etc. complete. SSR 39.09 / 246	Exterior shutter door/ Toilet main entrance/terrace
2	DOOR	Providing and fixing solid core flush door shutter in <b>double leaf 32 mm thick</b> decorative type of exterior grade as per detailed drawings approved face <b>veneers 3 mm thick on both faces</b> or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, <b>chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides</b> , and finishing with French Polish etc. complete. SSR 39.95/263	Hall entrance/Building entrance

3	GLAZED DOOR	P/F TW frame fully glazed door with shutters with full swing (180 degrees) fixed with double spring hinge with fixed glazed portions on top and side of the openable portion MCGM R3-CS-WW-29	Hall entrance/Building entrance
4	ACCOUSTIC DOOR	Providing of <b>Accoustic Door</b> to effectively control noise in conference rooms, broadcasting studios, theatres and music practice rooms. with prior approval of concerned Superintending Engineer. SSR 50.82/348	
5		<b>a)Door Frame:</b> Providing Frames for Accoustic door shutters with double rabbit of 68mm 1st class Malaysian Hardwood Frame densified and pressure treated with chemicals in vacuum impregnation vessel under 160 PSI pressure as per IS:401and kiln seasoned to moisture below 15% as per IS:1141 of section 120 X 70 mm spray quoted with 2 coats of In tumescent paint of minimum 200 micron, with 1 row of Hafele Accoustic seals concealed in the groove of the Frame for noise control, etc. complete as per direction of Engineer in Charge SSR 50.82/348	Auditorium/Hall/Exhibition area
		<b>b)Shutter:</b> Shutter: Providing of <b>65mm thick Accoustic Door Shutters</b> with wooden structure comprising of Chemical treated internal timber with anti termite chemicals in pressure impregnation vessels under 160 PSI pressure as per IS:401and kiln seasoned to moisture below 15% as per IS:1141 frame work of 100x 48 mm with 48 mm thick infill of ceramic vermiculite mix of density 54Kilograms/CMT, 3mm sheet rubber interlayer sheet on one side for acoustic property, faced with 6mm High Density Waterproof Ply confirming to IS Code 2201, internally lipped with hardwood beading, and pasted in Hydraulic Press under 50 tonnes pressure, spray quoted with 2 coats of PU paint of minimum 200 micron of color of engineer choice (any Veneer or Lamination will cost extra), without any external lipping along with double rebatting in shutters & accoustic seal SSR 50.82b/348	Auditorium/Hall/Exhibition area
6	FIRE DOOR	<b>Fire Door 45mm 1HR FRL (60/60) 3 Criteria - INTEGRITY / INSULATION/ STABILITY WOODEN DOOR</b> - Fire Door Tested in accordance to IS: 3614 Part 2. SSR 50.81/347	Staircase

		<p>c) Vision Panel:</p> <p>1 HR rated E Class clear high stress fire rated glass is pre fabricated strategically inside the shutter structure with 10 mm inside the shutter on all sides with U- glazing. An additional insulated powdercoated 'Z' channel of 16 swg MS sheet to be fixed for reinforcement of the joints. With clear fire resistant glass panes 11mm thick having minimum 120 minutes fire Description</p>	Staircase
7	SLIDING WINDOW	<p>Providing and fixing in position (as per 1868 / 1982) Aluminium <b>sliding window of three tracks</b> with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 kg/Rmt. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 kg/Rmt.. Top and side track section 92 x 31.75 x 1.30 mm at weight 0.933 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. and handle and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and <b>self locking catch</b> fitted in vertical section of shutter <b>including 5 mm thick plain glass and aluminium mosquito net shutter</b> with stainless steel jail with all required screws and nuts etc, complete. With colour Anodising with box</p> <p>SSR 39.41 / 253</p>	Classroom/office/hall
8	SLIDING WINDOW	<p>Providing and fixing in position. (as per I.S.1868 / 1982) <b>Aluminium sliding window of two tracks</b> with rectangular pipe having overall dimension 63.50 x 38.10 x 1.02 mm at weight 0.547 Kilogram/Running metre. and window frame bottom track section 61.85 x 31.75 x 1.20 mm at weight 0.695 Kilogram/Running metre. Top and side track section 61.85 x 31.75 x 1.30 mm at weight 0.659 Kilogram/Running metre. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 Kilogram/Running metre. And handle section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. and top section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. As per detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass with all required screws and nuts etc, complete. With colour Anodising with box.</p> <p>SSR 39.37 / 251</p>	Classroom/office/hall

		<p>Providing 60 min Fire rated doors system duly tested for 3 criteria - Integrity, Insulation and Stability Criteria as per the IS: 3614 Part 2 and BS: 476 part 22 at National Test House, Govt of India laborator and/or with Central Building Research Institute, Govt of India undertaking with standard heating conditions as specified in IS:3614 Part II 1992 and BS: 476 part 20 &amp; 22 1987 to achieve the required integrity, insulation and stability (i.e. to restrict the heat radiation, temperature rise on the non fire side to the maximum of 140° C above the ambient temperature on the exposed surface of the shutter. The fire doors are tested with NCBN technology ("Non Combustible by Nature"). with prior approval of concerned Superintending Engineer.</p>	
		<p>a) Door Frame: Supplying frames for Fire resistant door shutters 1st class Malaysian Hardwood Frame densified (810 Kilogram/cum) and pressure treated with fire retardant chemicals in vacuum impregnation vessel under 160 psi pressure as per IS:401and kiln seasoned to moisture below 15% as per IS:1141 of section 120 X 60 mm spray quoted with 2 coats of intumescent paint of minimum 200 micron, with single row of Brush- Type ASTROFLAME intumescent strip of size 10mm x 4mm affixed in the slit of the Frame for fire and smoke sealing, etc. complete.</p>	
		<p>b)Shutter : Providing of <b>65mm thick</b> asbestos free composite - 3 criteria - fire, heat and smoke check Accoustic Door Shutter with flame guard of 120 minutes IS3614 part -II comprising of 2x9mm Calcium Silicate boards, Chemical treated internal timber with Fire retardant chemicals in pressure impregnation vessels under 160 PSI pressure as per IS:401and kiln seasoned to moisture below 15% as per IS:1141 frame work of 100x32 mm with 32mm thick infill of ceramic fiber (density 128Kilograms/CMT), vermaculite mix faced with 6mm Fire retardant High Density ply, internally lipped with hardwood beading, and pasted in Hydraulic Press under 50 tonnes pressure, spray quoted with 2 coats of In tumescent paint of minimum 200 micron, and with 1 row of Brush- Type Astroflame® intumescent strip (imported) of size 10mmx4mm concealed for fire and smoke sealing in the grooves in the shutter on all edges except bottom, without any external lipping.</p>	Staircase

9	<b>SLIDING WINDOW</b>	<p>Providing and fixing in position <b>aluminium partly openable and partly fixed window</b> of any size as per detailed drawing and as directed by Engineer in charge with all necessary aluminium sections including necessary fixtures and fastening with <b>5 mm thick float glass</b> etc. complete. a) <b>Without powder coating</b> Note While arriving at the rate of item of item weight at 6.90 Kilogram/Square Metre is considered.</p> <p>SSR 39.54/257</p>	Toilet
10	<b>FIXED WINDOW</b>	<p>Providing and fixing in position b) <b>Powder Coated aluminium fixed window</b> fully glazed of any size as per detailed drawing and as directed by Engineer in charge with all necessary aluminium sections including necessary fixtures and fastening such as 5 mm thick clear float glass etc. complete.</p> <p>SSR 39.53B/257</p>	Elevational/As per design
11	<b>UPVC WINDOW</b>	<p>Providing and fixing of factory made <b>uPVC casement window / Fixed Window &amp; Casement Door</b> (White Colour) comprising uPVC multi-chambered frame, Sash, &amp; Mullion with wall thickness of 2.3mm (+0.2 mm ), duly reinforced with G.I. section 1.5 mm, wherever required. uPVC window &amp; door profile shall be made in India &amp; shall conform to BS EN 12608 and other standards as mentioned below: S.No. Name of the test Test Method Specified Parameter</p> <p>1 Tensile Impact Strength ISO 8256 - more than 700Kj/m<sup>2</sup></p> <p>2 Vicat Softening Temperature EN ISO - 306 Shall not be &lt; 75°C</p> <p>3 Charpy Impact Strength EN ISO - 179-2 Shall not be &lt; 20KJ/m<sup>2</sup></p> <p>4 Flexural Modulus Elasticity EN ISO - 178 Shall not be &lt; 2200 N/mm<sup>2</sup></p> <p>5 Mean Breaking Stress for welded corner(a) For the tensile bending test EN - 514 Shall not be &lt; 25 N/mm<sup>2</sup>(b) For the compression bending test Shall not be &lt; 30N/mm<sup>2</sup></p> <p>6 Heat Reversion Test IS:4985-2000 Shall not be &gt; 2.0 %</p> <p>7 Surface Spread of flame BS : 476 - Part 7 Classification 18</p> <p>Ignitability Evaluation BS : 476 - Part 5 'P' Not easily ignitable</p> <p>9 Tensile modulus ASTM D 638 Shall not be &lt; 35 MPa</p> <p>220 MPa</p> <p>11 Tensile Strength EN ISO 527 Shall not be &lt; 30 MPa.</p>	

		<p>All corners of frame and sash will be fusion welded. Mullion shall be welded / screwed. EPDM / TPE Gasket shall be provided in all frame, sash &amp; mullion, wherever necessary. Thereafter, 5 mm Float Annealed glass shall be provided in the sash with the help of uPVC glazing bead and hardware, i.e., friction hinge &amp; single point handle (in window) &amp; 3D Hinges &amp; Multipoint Lock (in door) shall be provided. Window / Door shall be fixed to the wall with 100mm long and 8mm dia. Fasteners and complete in all respect as per direction of Engineer-In-Charge. uPVC Window and Door Profiles are warranted for a period of ten (10) years against non-uniform discoloration, wrapping and rotting under general use.</p> <p>SSR 54.09/517</p>	
		<b>Casement Window</b> (Big Series) frame of size 67 x 62 mm & Sash / Mullion of size 67 x 78 mm.	Elevational/As per design
		<b>Casement Door</b> (Big Series) frame of size 67 x 62 mm & Door Sash of size 67 x 115 mm & Mullion (if required) of size 67 x 78 mm.	Elevational/As per design
		<b>Fixed Window</b> (Big Series) frame of size 67 x 62 mm & Mullion (if required) of size 67 x 78 mm.	Elevational/As per design
12	<b>CUBICLES</b>	<p>Supply and installation of <b>cubicles</b> of width and depth as per Athena Lite- SS Series Cubicles- Std Sizes (W x D x H): 900 mm x 1550 mm x 2105 mm, (Height is including 100 mm gap from bottom, Door Width- 600 mm specifications/ site drawings). Cubicle height to be 2105 mm. Made from solid grade compact high pressure laminate as per IS:2046 and EN-438 manufactured under high specific pressure &gt; 5 MPa and temperature &gt;120°C, All doors will be of single colour and made of 12 mm thick Merino HPL compact panel. The doors will have chamfered edges. Each door will be supported by 3 stainless steel made hinges affixed to the pilasters. Size of panels to be as per drawing. <b>HARDWARE &amp; ACCESSORIES</b> are H shaped (Top) head frame structure made of extruded Aluminium grade 6063 T5-50 micron epoxy powder coated for surface protection, Size to be 125x70x5T. Corner joinery section, Size to be 40x16.5x1.8T. U-Channel Wall joinery section, Size to be 22x16x1.6T. Door stopper section, Size to be 21x12.5x1.6T. Spring loaded Butt Hinges made from Stainless steel grade 304. Surface finish to be matt type. Covers to be lacor coated.etc complete.SSR 51.162/504</p>	Toilet

ELEVATIONAL			
1	ACP CLADDING	<p>ACP Cladding: -</p> <p>Providing, supplying, fabricating and fixing panel of <b>aluminium composite panel cladding</b> in approved shape made out of 4 mm thick ACP sheet material consisting of 3mm thick FR grade mineral core following NBC part IV Fire and life safety (<b>having 2 hours fire resistance</b> in accordance to ASTM E119-12 and BS476 part 6 and 7 class O) sandwiched between two aluminium sheets (each 0.5 mm thick of AA 5005/AA3105 grade) The aluminium composite panel cladding sheet shall be coil coated with kynar 500 based PVDF/Lumiflon based fluoropolymer resin (having 70:30 ratio of PVDF and acrylic) coating of approved colour and shade on top face and polymer (service) coating of bottom face as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicon sealant, backer rods etc .overall weight of the <b>ACP shall not be less than 7.5 Kilogram/Square Metre)</b></p> <p>SSR 51.100/378</p>	Facade
2	ALUMINIUM FINS	<p>Aluminium Fins:-</p> <p>Providing and Fixing <b>Horizontal fins</b> with 3"x1" Aluminium Tubular Section Powder coated Horizontally with 1" facing and 3" Gap in to in in sections with 1"1" Aluminium Angle powder coated fixed at top and bottom for fixing, with Hardware , with labour inclusive.</p> <p>Approved MR</p>	Facade
3	ALUMINIUM FINS	<p>ITEM NO.81 Aluminium Fins:-Providing and Fixing <b>Horizontal fins</b> with 100 mm x 40 mm x 3 mm thick, (Triangle Concave Shape) Aluminum Angle sections powder coated of specification, distance between section will be 3 -4 inches &amp; details as per drawing, Length and with all the accessories, hardware, with labour all inclusive.</p> <p>Approved MR</p>	Facade
4	TERRACOTTA JALI	<p>ITEM NO.82</p> <p>Providing and laying in position <b>terracotta jali</b> (Decorative) of 80 mm thick decorative type as per specification provided by the engineer in charge and drawings including fixtures and fabrications etc complete</p> <p>Approved MR</p>	Facade

5	<b>DRY WALL CLADDING</b>	<p><b>Dry wall cladding</b> with clay tile; Designing, supplying and fixing of Clay tile of Wienerberger (Red Series or Grey Series) or Equivalent with suitable size and thickness not less than 20 mm as per manufacturer with approved colour and pattern with composition of finest powdered clay and colour mixtures. The clay tile shall be fixed on the suitable framing system by using continuous aluminium profiled section as per manufacturer with suitable size and spacing to withstand the structural design criteria specified in the technical specification by using necessary HDG brackets, SS316 grade anchor bolts etc as per manufacturer specification. Cladding joints should be with open groove system. with prior approval of concerned Superintending Engineer. SSR 50.25/335</p>	Facade
6	<b>PRECAST</b>	<p>Casting &amp; fixing <b>Decorative Precast Circular Column, Rectangle Band, Cornice, Window Decorative Sill, Elevational Element</b> Having Precast Shell of thickness 60mm-80mm, M25 concrete with approved chemical to have crack free member, including reinforcement, Scaffolding, lifting, transportation complete Specification provided by the engineer in charge Approved MR</p>	Facade
7	<b>STRUCTURAL GLAZING</b>	<p><b>Structural Glazing</b> - Providing &amp; fixing of fabrication and installation of Structural Glazing system in the form of fixed panels, using designed aluminium extruded sections mullions and transoms with cover system section complete having anodize / Powder coating of approved colour and shade and make and fixed on the brick masonry/RCC/structural frames through adequately designed brackets glass shall be fixed to frame with structural silicone sealant/backer rod and weather silicone sealant non streaking /non staining of Dow Corning/GE or approved equivalent to make structural glazing air and water tight as per standards. with EPDM gaskets in each section with Saint Gobain make 6 mm reflective toughened glass having SHGC of 0.2 - 0.3, UValue of 3 - 4 W/ sq.mK VLT of 20-40% fixed with glazed panel of Sash frame with T Patti toggle, colour of glass as approval by architect, all aluminium sections joints with aluminium clip angles of 16 gauge, Galvanized M.S. Brackets for frame fixing and all other necessary Hardware fittings Complete as per Drawing and Green Specification. Approved MR</p>	Facade



8		<b>Staircase Skylight with Glass -</b> Providing and fixing 6 mm Clear toughened +1.52 PVB + 8 mm clear toughened Glass with clear silicon, all necessary hardware fittings and labour	Open terrace
<b>FALSE CEILING</b>			
1	<b>GYPSUM FALSE CEILING</b>	Providing and fixing in position <b>Gypsum board false ceiling with 12.5 mm thick Gypsum boards</b> , screwed/fixd to the under structure of suspended G.I. Grid constructed and suspended from the main ceiling consisting of ceiling sections of size 25 x 50 mm maximum center to center distance of 600 milimetre perimeter channel and intermediate channels at maximum center to center distance 1200 milimetre galvanized grid should be fixed to reinforced cement concrete slab. The gypsum board should be fixed to galvanized iron grid with necessary screws. The boards should be taped and filled from underside to give smooth, seamless ceiling. The rate should include necessary additional ceiling sections and intermediate channels. Additional intermediate channels should be fixed to strap hangers for additional support to prevent strapping at every 1200 milimetre item to be completed in all respect including necessary sleeves for ducts finishing of joints cut outs, painting including labour, material, lifts etc. all complete. SSR 38.51/243	For Halls/Rooms/Indoor Area false ceiling
2	<b>MODULAR FALSE CEILING</b>	Providing and fixing <b>Modular false ceiling of 600 x 600 mm</b> center to center and 13 mm thick square mineral fiber board to be fixed on frame work of alluminium sections for suspended false ceiling consisting of alluminium T 2"x1 ½" (50 mm x 40 mm) weighing 0.39 Kilogram/m at 60 cms center center and fixed with ½" x ½" (15 x 15 mm) flanges weighing 0.19 Kilogram/m suspended on 6 mm dia mild steel rod weighing 0.22 Kilogram/m, fixed on wall and beams including rounding of the edges with alluminium T of 2" x 1 ½" (50 mm x 40 mm) weighing 0.39 Kilogram/m etc. (all alluminium sections shall be anodized) including all labour, material, lifts etc. complete. SSR 38.52/243	For Classroom/Office /Halls

3	ACOUSTIC FALSE CEILING	Providing and Fixing <b>Soft Fibre Acoustical Suspended Ceiling</b> System with Optra (Bevelled Tegular) Edge Tiles of size 15mm Exposed Grid. The tiles should have Humidity Resistance (RH) of 95%, NRC 0.9 - 1.0, Light Reflectance ?85%, Colour White, Fire Performance UK Class 0 / Class 1 (BS 476 pt - 6 &7) in module size of 600 x 600 x 15mm , suitable for Green Building application, with Recycled content of 66% GW and 74% RW. The tile shall be laid on precoated G.I channel 32 with 15 mm wide T - section flanges colour white having rotary stitching on all T sections i.e. the Main Runner, 1200 mm and 600 mm Cross Tees with a web height of 32 mm and a load carrying capacity of 7 Kilograms/M2 with a minimum pull out strength of 100 Kilograms. The T Sections have a Galvanizing of 90 grams per M2 and need to be installed with Suspension system The Tile and Grid system used together should carry a 10 year warranty. products approved as per GRIHA and BS 476 etc. complete SSR 38.47/242	For Auditorium/Halls
4	BAFFLE WOODEN CEILING	<b>BAFFLE WOODEN CEILING</b> Suspended wood baffles with the help of cables upto 6mm/required MS/GI/Aluminium section from the roof having acoustic properties and Elongated various shape baffles made with High Density Board, Solid Wood Durable Coating, Corrosion Resistant, Tamper Proof with approved Finish material Completed as per specification and drawings as per Engineer in charge Approved MR	Reception/entrance/auditorium/ Exhibition
5	CEMENT SHEET	Providing and fixing in position <b>cement sheet</b> having <b>thickness 12 mm</b> in provided Frame/Brickwall/RCC Member as directed by Engineer in Charge and Drawings . item to be completed in all respect including finishing of joints cut outs, including labour, material, lifts etc. all complete RA SSR 66/528	External ceiling/enclosing
<b>CHAIRS</b>			
1	CHAIRS	Providing and supplying <b>Banquet chairs with cushion</b> of approved color. Complete as per specification provided by engineer incharge Approved MR	Hall

2	<b>MID BACK CHAIR</b>	<p><b>MID BACK CHAIR</b></p> <p>Providing and supplying center pivot, revolving, Mid back chair Depth-45cm, width-50cm, height- 105cm to 115cm &amp; seat height- 45cm to 55cm. (+/- 2cm ) with five legged metal / moulded nylon base with push back arrangement. Chairs shall have high density moulded, 360 revolving on suitable base, gas lift , heavy duty twin wheel castors to take min 80 kg/castor with two - pneumatic height adjustment one piece moulded type polypropylene armrest etc. complete. The chair shall be provided with approved tapestry upto Rs 300/m with necessary beading wherever required. All metal work shall be Epoxy Polyester Powder Coated and as directed by Architect in charge. The over all appearance of the product shall be as per photograph. All metal work shall be Epoxy Polyester Powder Coated and as directed by Architect in charge.</p> <p>MCGM R3-CS-FUR-30</p>	Office/staff area
3	<b>MID BACK CHAIR</b>	<p>Providing &amp; Arrangement of Mid Back, ECO CTS Mechanism , Fixed Armrest , Gaslift for Seat height adjustment, Standard 5-prong P/Nylon Base with Fabric Upholstery</p> <p>SSR 51.43</p>	Office/staff area
4	<b>HIGH BACK CHAIR</b>	<p><b>HIGH BACK CHAIR</b> Providing and supplying center pivot, revolving, High back chair Depth- 45cm, width-50cm, height- 121cm to 131cm &amp; seat height 45cm to 55cm. (+/- 2cm) with five legged metal /moulded nylon base with push back arrangement. Chairs shall have high density moulded, 360 revolving on suitable base, gas lift , heavy duty twin wheel castors totake min 80 kg/castor with two - pneumatic height adjustment one piece moulded type polypropylene armrest etc. complete. The chair shall be provided with 300/m with necessary beading wherever required. All metal work shall be Epoxy Polyester Powder Coated and as directed by Architect in charge.</p> <p>MCGM R3-CS-FUR-29</p>	Officer's cabin
5	<b>HIGH BACK CHAIR</b>	<p>Providing &amp; Arrangement of High Back Chair - TILT MECHANISM WITH MULTILOCKING, HIGH DENSITY CUSHION ON SEAT COMPOSITE LEATHER WITH METALLIC SILVER FINISH BASE AND ARMS WITH P.U.CASTORS</p> <p>GASLIFT FOR HEIGHT ADJUSTMENT.</p> <p>SSR 51.41</p>	

6	<b>VISITOR CHAIR</b>	<p><b>VISITOR CHAIR</b>  Providing and supplying visitor chair having size Depth-62cm, width-55cm, height-80cm &amp; seat height 45 cm. (+/- 2cm ), having seat &amp; back, shall be made up of 1.2 cm hot pressed plywood, approved tapestry upto Rs.300/m and mould polyurethane foam with P.V.C. lipping all around etc. complete. The chair shall be provided with two one piece armrest made of polypropylene. The chair shall be supported by cantilever type powder coated tubular frame dia 2.54cm x 14 B G M.S.E.R.W. tube. All aluminium steel component shall have Epoxy Polyester Powder Coated. The chair shall be Ergonomic Dry film thickness shall be more than 45 Micron. And as directed by Architect in charge. The over all appearance of the product shall be as per photograph. All metal work shall be Epoxy Polyester Powder Coated and as directed by Architect in charge.  MCGM - R3-CS-FUR-32</p>	Waiting area/Office
7	<b>PUBLIC SEATING CHAIR</b>	<p><b>Public Seating Chair. - 3 Seater</b>  Providing and Fixing 3 seater Public seating chair made of complete metal with Legs in Chrome finish and seats in silver powder coating finish.  SSR 51.44</p>	Waiting area
<b>MISCELLANEOUS</b>			
1	<b>SIGNAGES</b>	<p>Providing and fixing Internal signage <b>ss brush finish 2 mm thick .</b>  Spec. As directed by Engineer-In-Charge.  Approved MR</p>	Internal signages
2	<b>SS SIGNAGE</b>	<p>Providing &amp; Fixing of signage using <b>304 Stainless steel letters</b> for the front &amp; side fascia and 5mm thick acrylic molded letters, for back fascia moulded letters with height 24 inches, with necessary power supplies for connection, including profile LED back lighting  Approved MR</p>	Entrance/ exterior signages
3	<b>RAILING</b>	<p>Providing and fixing <b>40mm diameter and 1.5 mm thick Stainless steel hand railing</b> in S.S.304 Grade including fabricating ,fixtures, erecting, necessary welding, grinding, finishing, buffing to stainless steel pipe etc. complete  SSR 40.06/264</p>	Staircase side wall (For support)
4	<b>RAILING</b>	<p>Providing and fixing 0.9-1m 60mm diameter and 20mm dia for horizontal bars,40mm vertical bars and 1.5-2 mm thick Stainless steel hand railing in S.S.304 Grade including fabricating ,fixtures, erecting, necessary welding, grinding, finishing, buffing to stainless steel pipe etc. complete including finishing the surface.  Approved MR</p>	Internal railing

5	RAILING	Providing and fixing mild steel grill work for windows, ventilators etc. 20 Kilogram/Square Metre as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete. SSR 40.01 / 264	For compound wall
PAVING			
1	STAMP CONCRETE	<p>Stamp Concrete of 100mm Thickness - Providing and Laying in-situ M30 Grade unreinforced plain cement stamp concrete of 100mm thickness pavement over a prepared sub base with 43 grade cement, coarse and fine aggregate (natural sand / VSI grade finely washed crushed sand) Confirming to IS 383, as per mixed in a batching and mixing plant / non tilting mixer and weigh batcher as per approved mix design, admixtures, transporting to site in nagpur city with lead upto 20KM (on Inner Ring Road from Avasti nagar to wadi), spreading, laying with approved make pover, compacted and finished in a continous operation, finishing to lines and grades Also Providing, Placing and applying stamp powder which is light fast UV resistant pigment with appropriate chemical compounds of desired colour on base concrete after excess bleed water has evaporated using dry shake method @5kg per sqm. SSR 54.01 / 513</p> <p>Including texturing, and covering with plastic sheet (min 200 micron thickness) and also applying two coats of UV-stable,30 % solidsclear sealer @ 150 to 250 gms per sqm using surface roller and protecting from fallingdust,dirt and curring by curring compound / by providing cement vata in cement Mortor 1:8 @ 0.6m x 0.6m center to center, admeasuring 80mm at bottom and 40mm at top withdepth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-incharge or Landscape architect etc. complete. (prior approval of superinteding Engineer will be necessary )</p>	External paving

मिरा भाईंदर महानगरपालिकेच्या सौंदर्यात व सुशोभिकरणात भर पडण्यासाठी वरील प्रस्तावित कलरकोड व बाबींचा समावेश करण्यासाठी प्रशासकीय ठरावाद्वारे मान्यता देणेस शिफारस आहे.

  
(दिपक खांबित)

शहर अभियंता

मिरा भाईंदर महानगरपालिका

# मिरा-भाईंदर महानगरपालिका

प्रशासकीय ठराव

दिनांक :- 23/11/2024

प्रकरण क्रमांक :- (१६) मिरा भाईंदर महानगरपालिकेच्या सौंदर्यीकरण, सुशोभिकरण या मध्ये भर पडून सार्वजनिक मालमत्ता एकसमान, सुनियोजित व टिकाऊ राहणेसाठी सिटी ब्रँडिंग अंतर्गत धोरण निश्चित करणे.

## कार्यालयीन प्रस्तावना

मिरा भाईंदर हे शहर देशातील नागरीकांना राहण्यासाठी सुनियोजित व सर्व सोयीयुक्त असे शहर तयार करण्याच्या दिशेने महानगरपालिकेची वाटचाल सुरू असून त्यादृष्टीने शहरातील मुलभूत सोई सुविधा विविध प्रकल्प हाती घेऊन कामे करण्यात येत आहेत. सदर कामे ही सुनियंत्रित करण्याच्या दृष्टीने व त्यासाठी निधी उपलब्ध होण्याच्या दृष्टीने देखील विविध उपाययोजना राबविण्यात येत आहेत.

मिरा भाईंदर महानगरपालिकेमध्ये राष्ट्रीय स्तरावरील मिरा भाईंदर @ 2047 परिषद आयोजित करण्यात आली होती. त्यानुसार शहराची ओळख निर्माण होण्यासाठी विविध पायाभूत सुविधांचा विकास सोबत त्या पायाभूत सुविधांच्या ब्रँडींगला अनन्यसाधारण महत्व आलेले आहे. राष्ट्रीय परिषदेतील धोरणानुसार शहरातील पायाभूत सुविधांचा नवनिर्मितीच्या विविध संकल्पनांचा 'थीम' आधारीत विकास आणि पुनर्रचना करणेसाठी सदरील प्रस्ताव सादर केलेला आहे.

मिरा भाईंदर महानगरपालिकेमार्फत विविध विकासाची कामे पार पाडण्यात येत आहेत. भविष्यात शहराची एक वेगळी ओळख व्हावी यासाठी सिटी ब्रँडिंग या विचारधारेच्या अनुशंगाने महानगरपालिकेमार्फत तयार होणारी मालमत्ता व त्यावरील देखभाल व दुरुस्ती वरील खर्च कमी व्हावा यासाठी विविध उपाययोजना करण्याचे प्रस्तावित आहेत. यासाठी शहरातील व शहराबाहेरील तज्ञ व्यक्ती, संस्था यांचे मार्गदर्शन घेऊन शहरातील रस्ते, फुटपाथ, विविध सार्वजनिक इमारती, स्वच्छतागृहे, स्मशानभूमी/ दफनभूमी, पाण्याच्या टाक्या, मलनिस्सारण केंद्र, उद्याने, मैदाने, दिशादर्शक फलक, रस्त्यावरील संरक्षक कठडे, रेलिंग, वाहतुक बेट, दुभाजक, यांना मालमत्तानिहाय रंगसंगती एकसमान ठेवल्यास शहराच्या सौंदर्यात व सुशोभिकरणात भर पडून या शहराची ओळख शहराबाहेर होण्यास मदत होणार आहे. त्याचप्रमाणे सदर सर्व मालमत्ता टिकाऊ व दर्जेदार होण्यासाठी विविध मालमत्ता बांधकामात वापरण्यात येणारे बांधकाम व इतर साहित्य देखील निश्चित केल्यास भविष्यात त्यावर देखभाल व दुरुस्तीवर होणाऱ्या खर्चात मोठी बचत होणार आहे. त्यानुसार खालीलप्रमाणे रंग व बांधकाम साहित्य इ. वापरण्यास प्रस्तावित करण्यात येत आहे. भविष्यात सदर सर्व बाबींची कामाच्या अंदाजपत्रकात समाविष्ट करून यापुढे सदर योजनेची अंमलबजावणी काटेकोररीत्या करता येईल.

## CITY BRANDING / COLOUR CODE

	COLOUR CODE
Hindu Cemetery	YELLOW
Muslim Dafanbhumi	YELLOW
Christian Burial Ground	YELLOW
Ward Office / MBMC Offices	BLUE+GREY
Community Hall	RED
Municipal School	BLUE+YELLOW
Health Centre	GREEN+WHITE

Hospital	GREEN+WHITE
Fire Station	RED
Market	YELLOW+GREY
Senior Citizen Centre	RED+GREEN
Library/Study Room	RED+WHITE
Playground / Garden	GREEN+WHITE
Overhead Water Tank	GREEN+GREY
Sewerage Treatment Tank	BLUR+GREY
Road Divider	BLCK+WHITE
Road Curbstone	YELLOW
CT/PT	YELLOW+GREY
Foot Path Stamp Concrete	GREY

त्याचप्रमाणे विविध विकासकामे करताना बांधकाम साहित्य हे दर्जेदार व टिकाऊ वापरणेसाठी यापुढे महानगरपालिकेची विकासकामांची अंदाजपत्रके तयार करताना त्यामध्ये खालील बाबी व स्पेसिफिकेशनचा समावेश केल्यास यापुढील कामे दर्जेदार होतील. मा. प्रशासकीय ठराव क्र.125 दि.21/11/2022 अन्वये शहरात बसवावयाचे नामफलक, उद्घाटन फलक, दिशादर्शक फलक यासाठी धोरण निश्चित केलेले आहे. त्याची अंमलबजावणी देखील करण्यात येत आहे. अंदाजपत्रकात समाविष्ट करावयाच्या बाबी खालीलप्रमाणे आहेत.

SR. NO.	DESCRIPTION		LOCATION
FLOORING			
1	CERAMIC TILES FLOORING	Providing and laying <b>matt finish ceramic tiles</b> of having size 30cmx30cm confirming to I.S.15622/2006 (groupDII-A)nd 7 to 8mm thick for flooring in required position laid on a bed of 1:4 cement mortar including cement float,filling joint with white/colour cement slurry cleaning curing etc. complete. SSR 33.24 / 215	Optional/As per design/toilet
2	CERAMIC TILES DADO	Providing and laying <b>ceramic tiles having size 30 cm. x 60 cm.</b> confirming to corresponding I.S. <b>for dado and skirting</b> in required position with readymade adhesive mortar of approved quality on plaster of 1:2 cement mortar including joint filling with white/ colour cement slurry cleaning curing etc. complete. SSR 33.27/215	Toilet dado
3	VITRIFIED TILES FLOORING	Providing and laying <b>vitrified mirror / glossy finish tiles decorative type</b> having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness and confirming to IS. 15622-2006 ( group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete. a) Flooring SSR 33.40 / 217	For multipurpose halls/rooms/lobby

4	<b>VITRIFIED MATT TILES</b>	<p>Providing and laying <b>vitrified matt finish tiles</b> having size 590 mm to 605 mm x to 605 mm of 8 to 10 mm thickness and confirming IS. 15622-2006 (Group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete.</p> <p>SSR 33.42/217</p>	Anti skid type 600 x 600 mm for toilet flooring & wet areas
5	<b>FULL BODY VITRIFIED TILES</b>	<p>Providing and laying <b>full body heavy duty, scratch resistant, high abrasion resistant vitrified mirror / glossy/ matt finish tiles</b> for flooring decorative type having size 800 X 800, 1000 X 1000, 800 X 2400 mm (approved size) etc. of 10 to 12 mm thickness and confirming to IS. 15622-2006 ( group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, approved colour grout, curing and clearing etc. complete.</p> <p>Approved MR</p>	For multipurpose halls/rooms/lobby
6	<b>OUTDOOR VITRIFIED</b>	<p>Supply &amp; Fixing of <b>Rock / Stone Finished outdoor vitrified flooring</b> Tiles 20 mm thick and required width wide in plain pattern including Cement float, filling joints, with neat cement slurry, Natural sand, curing and cleaning complete. with prior approval of concerned Superintending Engineer.</p> <p>SSR 50.13/332</p>	For Outdoor Vitrified tile
7	<b>HAND MADE TILE</b>	<p>Providing and laying <b>hand made tile</b> of various size and approved designs for dado and skirting in required position with readymade adhesive mortar of approved quality on plaster of 1:2 cement mortar including joint filling with white/ colour cement slurry cleaning curing etc. complete.</p> <p>Approved MR</p>	For Decorative wall
8	<b>YELLOW JAISALMER</b>	<p>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 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. 18mm thk. <b>Jaisalmer Stone/ Yellow Marble</b> MCGM R3-CS-FL-28-i</p>	Optional/As per design In lobby/entrance area/hall



9	<b>WHITE MARBLE</b>	<p>Providing and laying polished natural stone as specified below (Machine cut) of an approved quality and size for paving /flooring in plain and/or diamond /approved pattern including cement mortar bedding of 25 mm thick in 1:4 proportion, cement float, machine cutting, dressing, leveling, jointing, filling the joints with neat cement slurry or with required pigment, machine polishing at site, curing, finishing, etc complete as directed by Engineer In Charge.</p> <p>18 mm thk. <b>White marble</b> of superior quality and white cement float</p> <p>MCGM R3-CS-FL-01-e</p>	Optional/As per design In lobby/entrance area/hall
10	<b>GRANITE</b>	<p>Providing and laying in position flooring of <b>telephone black / Amba White / Cat bary brown / Ruby red / Ocean Brown granite stone</b> of approved shade and size <b>18 mm to 20 mm thick</b> on bed 1:6 cement mortar including cement floats striking joints, pointing in C.M. 1:3 curing and cleaning etc. complete.</p> <p>SSR 33.34 / 216</p>	Optional/As per design In lobby/entrance area/hall
11	<b>GRANITE FOR STAIRCASE</b>	<p>Providing and fixing machine cut machine polished <b>18 mm to 20 mm thick telephone black / Amba White / Cat bary brown / RBI red / Ocean Brown granite stone</b> for <b>treads and risers of steps</b> and staircases of approved colour and shade with rounded moulding and <b>three grooved line</b> for the treads on bed of 1:4 Cement mortar including float filling joints with neat cement slurry curing polishing and cleaning etc. complete.</p> <p>SSR 33.35 / 216</p>	For treads
12	<b>VITRIFIED SKIRTING/DADO</b>	<p>Providing and laying <b>vitrified mirror / glossy finish tiles</b> having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness and confirming to IS. 15622-2006 ( group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete.b) <b>Skirting</b></p> <p>SSR 33.41 / 217</p>	For Risers, Dado
13	<b>KOTA FLOORING</b>	<p>Providing and laying machine cut machine Polished <b>Kota stone flooring 25mm to 30mm thick</b> and required width in plain/ diamond pattern on bed of 1:6 C. M. including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete.</p> <p>SSR 33.06 / 213</p>	For Rough Flooring area/outdoor stage/outdoor passage/School Corridor

14	NATURAL WOODEN FLOORING	Providing & fixing wood finished Step seating (Pine wood or equivalent- Avg thickness 30 MM), with base of 8 mm thk Marine grade plywood, Wooden flooring to be laid as per pattern and treated properly with sanding, sealer coating, staining & 2 coats of varnish as directed as per detailed drawings. Approved MR	For Auditorium Building/Stage area/Art Galleries
15	ENGINEERED WOOD FLOORING	<b>Wooden floor tiles</b> (including skirting) Providing & laying Hardwood flooring (strip format) with standard specifications, Board constructed with 3 layers, Top layer of 3 to 6 mm thk veneer, Core material of high density fiber board, and balancing layer, Wood species of as per selection (oak, Walnutm Teak, Ash and other exotic species). The surface to be pre-finished with UV hardner acrylic hardner, free of formaldehyde and solvents. Finish of Top layer to be Matt or Satin or brushed having resistance to house hold chemicals & stains and not to change colour. Approved MR Spec. As directed by Engineer-In-Charge.	For Auditorium Building/Stage area/Art Galleries/VIP Room/Suite
16	CARPET	Providing & Fixing in position, Carpet more than 800+ 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 SSR 51.13/354	Auditorium/Exhibi tion/Hall
DOOR & WINDOWS			
1	DOOR	Providing and fixing solid core flush door shutter in <b>single leaf 32 mm thick</b> decorative type of exterior grade as per detailed drawings approved face <b>veneers 3 mm thick on both faces</b> or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with <b>brass mortise lock, chromium plated handles on both sides</b> , and finishing with French Polish etc. complete. SSR 39.09 / 246	Exterior shutter door/ Toilet main entrance/terrace
2	DOOR	Providing and fixing solid core flush door shutter in <b>double leaf 32 mm thick</b> decorative type of exterior grade as per detailed drawings approved face <b>veneers 3 mm thick on both faces</b> or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, <b>chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides</b> , and finishing with French Polish etc. complete. SSR 39.95/263	Hall entrance/Building entrance

3	GLAZED DOOR	P/F TW frame fully glazed door with shutters with full swing (180 degrees) fixed with double spring hinge with fixed glazed portions on top and side of the openable portion MCGM R3-CS-WW-29	Hall entrance/Building entrance
4	ACCOUSTIC DOOR	Providing of <b>Accoustic Door</b> to effectively control noise in conference rooms, broadcasting studios, theatres and music practice rooms. with prior approval of concerned Superintending Engineer. SSR 50.82/348	
5		<b>a)Door Frame:</b> Providing Frames for Accoustic door shutters with double rabbit of 68mm 1st class Malaysian Hardwood Frame densified and pressure treated with chemicals in vacuum impregnation vessel under 160 PSI pressure as per IS:401 and kiln seasoned to moisture below 15% as per IS:1141 of section 120 X 70 mm spray quoted with 2 coats of In tumescent paint of minimum 200 micron, with 1 row of Hafele Accoustic seals concealed in the groove of the Frame for noise control, etc. complete as per direction of Engineer in Charge SSR 50.82/348	Auditorium/Hall/Exhibition area
		<b>b)Shutter:</b> Shutter: Providing of <b>65mm thick Accoustic Door Shutters</b> with wooden structure comprising of Chemical treated internal timber with anti termite chemicals in pressure impregnation vessels under 160 PSI pressure as per IS:401 and kiln seasoned to moisture below 15% as per IS:1141 frame work of 100x 48 mm with 48 mm thick infill of ceramic vermiculite mix of density 54 Kilograms/CMT, 3mm sheet rubber interlayer sheet on one side for acoustic property, faced with 6mm High Density Waterproof Ply confirming to IS Code 2201, internally lipped with hardwood beading, and pasted in Hydraulic Press under 50 tonnes pressure, spray quoted with 2 coats of PU paint of minimum 200 micron of color of engineer choice (any Veneer or Lamination will cost extra), without any external lipping along with double rebatting in shutters & accoustic seal SSR 50.82b/348	Auditorium/Hall/Exhibition area
6	FIRE DOOR	<b>Fire Door 45mm 1HR FRL (60/60) 3 Criteria - INTEGRITY / INSULATION/ STABILITY WOODEN DOOR</b> - Fire Door Tested in accordance to IS: 3614 Part 2. SSR 50.81/347	Staircase

		<p>Providing 60 min Fire rated doors system duly tested for 3 criteria - Integrity, Insulation and Stability Criteria as per the IS: 3614 Part 2 and BS: 476 part 22 at National Test House, Govt of India laborator and/or with Central Building Research Institute, Govt of India undertaking with standard heating conditions as specified in IS:3614 Part II 1992 and BS: 476 part 20 &amp; 22 1987 to achieve the required integrity, insulation and stability (i.e. to restrict the heat radiation, temperature rise on the non fire side to the maximum of 140° C above the ambient temperature on the exposed surface of the shutter. The fire doors are tested with NCBN technology ("Non Combustible by Nature"). with prior approval of concerned Superintending Engineer.</p>	
		<p>a) Door Frame: Supplying frames for Fire resistant door shutters 1st class Malaysian Hardwood Frame densified (810 Kilogram/cum) and pressure treated with fire retardant chemicals in vacuum impregnation vessel under 160 psi pressure as per IS:401and kiln seasoned to moisture below 15% as per IS:1141 of section 120 X 60 mm spray quoted with 2 coats of intumescent paint of minimum 200 micron, with single row of Brush- Type ASTROFLAME intumescent strip of size 10mm x 4mm affixed in the slit of the Frame for fire and smoke sealing, etc. complete.</p>	
		<p>b)Shutter : Providing of <b>65mm thick</b> asbestos free composite - 3 criteria - fire, heat and smoke check Accoustic Door Shutter with flame guard of 120 minutes IS3614 part -II comprising of 2x9mm Calcium Silicate boards, Chemical treated internal timber with Fire retardant chemicals in pressure impregnation vessels under 160 PSI pressure as per IS:401and kiln seasoned to moisture below 15% as per IS:1141 frame work of 100x32 mm with 32mm thick infill of ceramic fiber (density 128Kilograms/CMT), vermaculite mix faced with 6mm Fire retardant High Density ply, internally lipped with hardwood beading, and pasted in Hydraulic Press under 50 tonnes pressure, spray quoted with 2 coats of In tumescent paint of minimum 200 micron, and with 1 row of Brush- Type Astroflame® intumescent strip (imported) of size 10mmx4mm concealed for fire and smoke sealing in the grooves in the shutter on all edges except bottom, without any external lipping.</p>	Staircase

		<p>c) Vision Panel:</p> <p>1 HR rated E Class clear high stress fire rated glass is pre fabricated strategically inside the shutter structure with 10 mm inside the shutter on all sides with U- glazing. An additional insulated powdercoated 'Z' channel of 16 swg MS sheet to be fixed for reinforcement of the joints. With clear fire resistant glass panes 11mm thick having minimum 120 minutes fire Description</p>	Staircase
7	SLIDING WINDOW	<p>Providing and fixing in position (as per 1868 / 1982) Aluminium <b>sliding window of three tracks</b> with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 kg/Rmt. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 kg/Rmt.. Top and side track section 92 x 31.75 x 1.30 mm at weight 0.933 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. and handle and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and <b>self locking catch</b> fitted in vertical section of shutter <b>including 5 mm thick plain glass and aluminium mosquito net shutter</b> with stainless steel jail with all required screws and nuts etc, complete. With colour Anodising with box</p> <p>SSR 39.41 / 253</p>	Classroom/office/hall
8	SLIDING WINDOW	<p>Providing and fixing in position. (as per I.S.1868 / 1982) <b>Aluminium sliding window of two tracks</b> with rectangular pipe having overall dimension 63.50 x 38.10 x 1.02 mm at weight 0.547 Kilogram/Running metre. and window frame bottom track section 61.85 x 31.75 x 1.20 mm at weight 0.695 Kilogram/Running metre. Top and side track section 61.85 x 31.75 x 1.30 mm at weight 0.659 Kilogram/Running metre. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 Kilogram/Running metre. And handle section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. and top section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. As per detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass with all required screws and nuts etc, complete. With colour Anodising with box.</p> <p>SSR 39.37 / 251</p>	Classroom/office/hall

9	<b>SLIDING WINDOW</b>	<p>Providing and fixing in position <b>aluminium partly openable and partly fixed window</b> of any size as per detailed drawing and as directed by Engineerincharge with all necessary alluminium sections including necessary fixtures and fastening with <b>5 mm thick float glass</b> etc. complete. a) <b>Without powder coating</b> Note While arriving at the rate of item of item weight at 6.90 Kilogram/Square Metre is considered.</p> <p>SSR 39.54/257</p>	Toilet
10	<b>FIXED WINDOW</b>	<p>Providing and fixing in position b) <b>Powder Coated aluminium fixed window</b> fully glazed of any size as per detailed drawing and as directed by Engineerincharge with all necessary alluminium sections including necessary fixtures and fastening such as 5 mm thick clear float glass etc. complete.</p> <p>SSR 39.53B/257</p>	Elevational/As per design
11	<b>UPVC WINDOW</b>	<p>Providing and fixing of factory made <b>uPVC casement window / Fixed Window &amp; Casement Door</b> (White Colour) comprising uPVC multi-chambered frame, Sash, &amp; Mullion with wall thickness of 2.3mm (+0.2 mm ), duly reinforced with G.I. section 1.5 mm, wherever required. uPVC window &amp; door profile shall be made in India &amp; shall conform to BS EN 12608 and other standards as mentioned below: S.No. Name of the test Test Method Specified Parameter1 Tensile Impact Strength ISO 8256 - more than 700Kj/m2 2 Vicat Softening Temperature EN ISO - 306 Shall not be &lt; 750C3 Charpy Impact Strength EN ISO - 179-2 Shall not be &lt; 20KJ/m24 Flexural Modulus Elasticity EN ISO - 178 Shall not be &lt; 2200 N/mm2 5 Mean Breaking Stress for welded corner(a) For the tensile bending test EN - 514 Shall not be &lt; 25 N/mm2(b) For the compression bending test Shall not be &lt; 30N/mm2 6 Heat Reversion Test IS:4985-2000 Shall not be &gt; 2.0 %7 Surface Spread of flame BS : 476 - Part 7 Classification 18 Ignitability Evaluation BS : 476 - Part 5 'P' Not easily ignitable 9 Tensile modulus ASTM D 638 Shall not be &lt; 35 MPa 220 MPa 11 Tensile Strength EN ISO 527 Shall not be &lt; 30 MPa.</p>	

		<p>All corners of frame and sash will be fusion welded. Mullion shall be welded / screwed. EPDM / TPE Gasket shall be provided in all frame, sash &amp; mullion, wherever necessary. Thereafter, 5 mm Float Annealed glass shall be provided in the sash with the help of uPVC glazing bead and hardware, i.e., friction hinge &amp; single point handle (in window) &amp; 3D Hinges &amp; Multipoint Lock (in door) shall be provided. Window / Door shall be fixed to the wall with 100mm long and 8mm dia. Fasteners and complete in all respect as per direction of Engineer-In-Charge. uPVC Window and Door Profiles are warranted for a period of ten (10) years against non-uniform discoloration, wrapping and rotting under general use.</p> <p>SSR 54.09/517</p>	
		<b>Casement Window</b> (Big Series) frame of size 67 x 62 mm & Sash / Mullion of size 67 x 78 mm.	Elevational/As per design
		<b>Casement Door</b> (Big Series) frame of size 67 x 62 mm & Door Sash of size 67 x 115 mm & Mullion (if required) of size 67 x 78 mm.	Elevational/As per design
		<b>Fixed Window</b> (Big Series) frame of size 67 x 62 mm & Mullion (if required) of size 67 x 78 mm.	Elevational/As per design
12	<b>CUBICLES</b>	<p>Supply and installation of <b>cubicles</b> of width and depth as per Athena Lite- SS Series Cubicles- Std Sizes (W x D x H): 900 mm x 1550 mm x 2105 mm, (Height is including 100 mm gap from bottom, Door Width- 600 mm specifications/ site drawings). Cubicle height to be 2105 mm. Made from solid grade compact high pressure laminate as per IS:2046 and EN-438 manufactured under high specific pressure &gt; 5 MPa and temperature &gt;120°C, All doors will be of single colour and made of 12 mm thick Merino HPL compact panel. The doors will have chamfered edges. Each door will be supported by 3 stainless steel made hinges affixed to the pilasters. Size of panels to be as per drawing. <b>HARDWARE &amp; ACCESSORIES</b> are H shaped (Top) head frame structure made of extruded Aluminium grade 6063 T5-50 micron epoxy powder coated for surface protection, Size to be 125x70x5T. Corner joinery section, Size to be 40x16.5x1.8T. U-Channel Wall joinery section, Size to be 22x16x1.6T. Door stopper section, Size to be 21x12.5x1.6T. Spring loaded Butt Hinges made from Stainless steel grade 304. Surface finish to be matt type. Covers to be lacor coated.etc complete.SSR 51.162/504</p>	Toilet

ELEVATIONAL			
1	ACP CLADDING	<p>ACP Cladding: - Providing, supplying, fabricating and fixing panel of <b>aluminium composite panel cladding</b> in approved shape made out of 4 mm thick ACP sheet material consisting of 3mm thick FR grade mineral core following NBC part IV Fire and life safety (<b>having 2 hours fire resistance</b> in accordance to ASTM E119-12 and BS476 part 6 and 7 class O) sandwiched between two aluminium sheets (each 0.5 mm thick of AA 5005/AA3105 grade) The aluminium composite panel cladding sheet shall be coil coated with kynar 500 based PVDF/Lumiflon based fluropolymer resin (having 70:30 ratio of PVDF and acrylic) coating of approved colour and sg=hade on top face and polymer (service) coating of bottom face as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicon sealant, backer rods etc .overall weight of the <b>ACP shall not be less than 7.5 Kilogram/Square Metre</b>) SSR 51.100/378</p>	Facade
2	ALUMINIUM FINS	<p>Aluminium Fins:- Providing and Fixing <b>Horizontal fins</b> with 3"x1" Aluminium Tubular Section Powder coated Horizontally with 1" facing and 3" Gap in to in in sections with 1"1" Aluminium Angle powder coated fixed at top and bottom for fixing, with Hardware , with labour inclusive. Approved MR</p>	Facade
3	ALUMINIUM FINS	<p>ITEM NO.81 Aluminium Fins:-Providing and Fixing <b>Horizontal fins</b> with <b>100 mm x 40 mm x 3 mm thick, (Triangle Concave Shape)</b> Aluminum Angle sections powder coated of specification, distance between section will be 3 -4 inches &amp; details as per drawing, Length and with all the accessories, hardware, with labour all inclusive. Approved MR</p>	Facade
4	TERRACOTTA JALI	<p>ITEM NO.82 Providing and laying in position <b>terracotta jali</b> (Decorative) of <b>80 mm thick</b> decorative type as per specification provided by the engineer in charge and drawings including fixtures and fabrications etc complete Approved MR</p>	Facade



5	<b>DRY WALL CLADDING</b>	<p><b>Dry wall cladding</b> with clay tile; Designing, supplying and fixing of Clay tile of Wienerberger (Red Series or Grey Series) or Equivalent with suitable size and thickness not less than 20 mm as per manufacturer with approved colour and pattern with composition of finest powdered clay and colour mixtures. The clay tile shall be fixed on the suitable framing system by using continuous aluminium profiled section as per manufacturer with suitable size and spacing to withstand the structural design criteria specified in the technical specification by using necessary HDG brackets, SS316 grade anchor bolts etc as per manufacturer specification. Cladding joints should be with open groove system. with prior approval of concerned Superintending Engineer. SSR 50.25/335</p>	Facade
6	<b>PRECAST</b>	<p>Casting &amp; fixing <b>Decorative Precast Circular Column,Rectangle Band,Cornice,Window Decorative Sill,Elevational Element</b> Having Precast Shell of thickness 60mm-80mm, M25 concrete with approved chemical to have crack free member,including reinforcement, Scaffolding, lifting, transportation complete Specification provided by the engineer in charge Approved MR</p>	Facade
7	<b>STRUCTURAL GLAZING</b>	<p><b>Structural Glazing</b> - Providing &amp; fixing of fabrication and installation of Structural Glazing system in the form of fixed panels, using designed aluminium extruded sections mullions and transoms with cover system section complete having anodize /Powder coating of approved colour and shade and make and fixed on the brick masonry/RCC/structural frames through adequately designed brackets glass shall be fixed to frame with structural silicone sealant/backer rod and weather silicone sealant non streaking /non staining of Dow corning/GE or approved equivalent to make structural glazing air and water tight as per standards. with EPDM gaskets in each section with Saint Gobain make 6 mm reflective toughened glass having SHGC of 0.2 - 0.3, UValue of 3 - 4 W/ sq.mK VLT of 20-40% fixed with glazed panel of Sash frame with T Patti toggle, colour of glass as approval by architect, all aluminium sections joints with aluminium clip angles of 16 gauge, Galvanized M.S. Brackets for frame fixing and all other necessary Hardware fittings Complete as per Drawing and Green Specification. Approved MR</p>	Facade

8		<b>Staircase Skylight with Glass -</b> Providing and fixing 6 mm Clear toughened +1.52 PVB + 8 mm clear toughened Glass with clear silicon, all necessary hardware fittings and labour	Open terrace
<b>FALSE CEILING</b>			
1	<b>GYPSUM FALSE CEILING</b>	Providing and fixing in position <b>Gypsum board false ceiling with 12.5 mm thick Gypsum boards</b> , screwed/fixd to the under structure of suspended G.I. Grid constructed and suspended from the main ceiling consisting of ceiling sections of size 25 x 50 mm maximum center to center distance of 600 milimetre perimeter channel and intermediate channels at maximum center to center distance 1200 milimetre galvanized grid should be fixed to reinforced cement concrete slab. The gypsum board should be fixed to galvanized iron grid with necessary screws. The boards should be taped and filled from underside to give smooth, seamless ceiling. The rate should include necessary additional ceiling sections and intermediate channels. Additional intermediate channels should be fixed to strap hangers for additional support to prevent strapping at every 1200 milimetre item to be completed in all respect including necessary sleeves for ducts finishing of joints cut outs, painting including labour, material, lifts etc. all complete. SSR 38.51/243	For Halls/Rooms/Indoor Area false ceiling
2	<b>MODULAR FALSE CEILING</b>	Providing and fixing <b>Modular false ceiling of 600 x 600 mm</b> center to center and 13 mm thick square mineral fiber board to be fixed on frame work of alluminium sections for suspended false ceiling consisting of alluminium T 2"x1 ½" (50 mm x 40 mm) weighing 0.39 Kilogram/m at 60 cms center center and fixed with ½" x ½" (15 x 15 mm) flanges weighing 0.19 Kilogram/m suspended on 6 mm dia mild steel rod weighing 0.22 Kilogram/m, fixed on wall and beams including rounding of the edges with alluminium T of 2" x 1 ½" (50 mm x 40 mm) weighing 0.39 Kilogram/m etc. (all alluminium sections shall be anodized) including all labour, material, lifts etc. complete. SSR 38.52/243	For Classroom/Office/Halls

3	<b>ACOUSTIC FALSE CEILING</b>	Providing and Fixing <b>Soft Fibre Acoustical Suspended Ceiling</b> System with Optra (Bevelled Tegular) Edge Tiles of size 15mm Exposed Grid. The tiles should have Humidity Resistance (RH) of 95%, NRC 0.9 - 1.0, Light Reflectance 785%, Colour White, Fire Performance UK Class 0 / Class 1 (BS 476 pt - 6 & 7) in module size of 600 x 600 x 15mm , suitable for Green Building application, with Recycled content of 66% GW and 74% RW. The tile shall be laid on precoated G.I channel 32 with 15 mm wide T - section flanges colour white having rotary stitching on all T sections i.e. the Main Runner, 1200 mm and 600 mm Cross Tees with a web height of 32 mm and a load carrying capacity of 7 Kilograms/M2 with a minimum pull out strength of 100 Kilograms. The T Sections have a Galvanizing of 90 grams per M2 and need to be installed with Suspension system The Tile and Grid system used together should carry a 10 year warranty. products approved as per GRIHA and BS 476 etc. complete SSR 38.47/242	For Auditorium/Halls
4	<b>BAFFLE WOODEN CEILING</b>	<b>BAFFLE WOODEN CEILING</b> Suspended wood baffles with the help of cables upto 6mm/required MS/GI/Aluminium section from the roof having acoustic properties and Elongated various shape baffles made with High Density Board, Solid Wood Durable Coating, Corrosion Resistant, Tamper Proof with approved Finish material Completed as per specification and drawings as per Engineer in charge Approved MR	Reception/entrance/auditorium/ Exhibition
5	<b>CEMENT SHEET</b>	Providing and fixing in position <b>cement sheet</b> having <b>thickness 12 mm</b> in provided Frame/Brickwall/RCC Member as directed by Engineer in Charge and Drawings . item to be completed in all respect including finishing of joints cut outs, including labour, material, lifts etc. all complete RA SSR 66/528	External ceiling/enclosing
<b>CHAIRS</b>			
1	<b>CHAIRS</b>	Providing and supplying <b>Banquet chairs with cushion</b> of approved color. Complete as per specification provided by engineer incharge Approved MR	Hall

2	<b>MID BACK CHAIR</b>	<p><b>MID BACK CHAIR</b></p> <p>Providing and supplying center pivot, revolving, Mid back chair Depth-45cm, width-50cm, height- 105cm to 115cm &amp; seat height- 45cm to 55cm. (+/- 2cm ) with five legged metal / moulded nylon base with push back arrangement. Chairs shall have high density moulded, 360 revolving on suitable base, gas lift , heavy duty twin wheel castors to take min 80 kg/castor with two - pneumatic height adjustment one piece moulded type polypropylene armrest etc. complete. The chair shall be provided with approved tapestry upto Rs 300/m with necessary beading wherever required. All metal work shall be Epoxy Polyester Powder Coated and as directed by Architect in charge. The over all appearance of the product shall be as per photograph. All metal work shall be Epoxy Polyester Powder Coated and as directed by Architect in charge.</p> <p>MCGM R3-CS-FUR-30</p>	Office/staff area
3	<b>MID BACK CHAIR</b>	<p>Providing &amp; Arrangemnt of Mid Back, ECO CTS Mechanism , Fixed Armrest , Gaslift for Seat height adjustment, Standard 5-prong P/Nylon Base with Fabric Upholstery</p> <p>SSR 51.43</p>	Office/staff area
4	<b>HIGH BACK CHAIR</b>	<p><b>HIGH BACK CHAIR</b>Providing and supplying center pivot, revolving, High back chair Depth- 45cm, width-50cm, height- 121cm to 131cm &amp; seat height 45cm to 55cm. (+/- 2cm) with five legged metal /moulded nylon base with push back arrangement. Chairs shall have high density moulded, 360 revolving on suitable base, gas lift , heavy duty twin wheel castors totake min 80 kg/castor with two - pneumatic height adjustment one piece moulded type polypropylene armrest etc. complete. The chair shall be provided with 300/m with necessary beading wherever required. All metal work shall be Epoxy Polyester Powder Coated and as directed by Architect in charge.</p> <p>MCGM R3-CS-FUR-29</p>	Officer's cabin
5	<b>HIGH BACK CHAIR</b>	<p>Providing &amp; Arrangemnt of High Back Chair - TILT MECHANISM WITH MULTILOCKING, HIGH DENSITY CUSHION ON SEAT COMPOSITE LEATHER WITH METALLIC SILVER FINISH BASE AND ARMS WITH P.U.CASTORS</p> <p>GASLIFT FOR HEIGHT ADJUSTMENT.</p> <p>SSR 51.41</p>	

6	VISITOR CHAIR	<p>VISITOR CHAIR</p> <p>Providing and supplying visitor chair having size Depth-62cm, width-55cm, height-80cm &amp; seat height 45 cm. (+/- 2cm ), having seat &amp; back, shall be made up of 1.2 cm hot pressed plywood, approved tapestry upto Rs.300/m and mould polyurethane foam with P.V.C. lipping all around etc. complete. The chair shall be provided with two one piece armrest made of polypropylene. The chair shall be supported by cantilever type powder coated tubular frame dia 2.54cm x 14 B G M.S.E.R.W. tube. All aluminium steel component shall have Epoxy Polyester Powder Coated. The chair shall be Ergonomic Dry film thickness shall be more than 45 Micron. And as directed by Architect in charge. The over all appearance of the product shall be as per photograph. All metal work shall be Epoxy Polyester Powder Coated and as directed by Architect in charge.</p> <p>MCGM - R3-CS-FUR-32</p>	Waiting area/Office
7	PUBLIC SEATING CHAIR	<p><b>Public Seating Chair. - 3 Seater</b></p> <p>Providing and Fixing 3 seater Public seating chair made of complete metal with Legs in Chrome finish and seats in silver powder coating finish.</p> <p>SSR 51.44</p>	Waiting area
<b>MISCELLANEOUS</b>			
1	SIGNAGES	<p>Providing and fixing Internal signage <b>ss brush finish 2 mm thick</b> .</p> <p>Spec. As directed by Engineer-In-Charge.</p> <p>Approved MR</p>	Internal signages
2	SS SIGNAGE	<p>Providing &amp; Fixing of signage using <b>304 Stainless steel letters</b> for the front &amp; side fascia and 5mm thick acrylic molded letters, for back fascia moulded letters with height 24 inches, with necessary power supplies for connection, including profile LED back lighting</p> <p>Approved MR</p>	Entrance/ exterior signages
3	RAILING	<p>Providing and fixing <b>40mm diameter and 1.5 mm thick Stainless steel hand railing</b> in S.S.304 Grade including fabricating ,fixtures, erecting, necessary welding, grinding, finishing, buffing to stainless steel pipe etc. complete</p> <p>SSR 40.06/264</p>	Staircase side wall (For support)
4	RAILING	<p>Providing and fixing 0.9-1m 60mm diameter and 20mm dia for horizontal bars,40mm vertical bars and 1.5-2 mm thick Stainless steel hand railing in S.S.304 Grade including fabricating ,fixtures, erecting, necessary welding, grinding, finishing, buffing to stainless steel pipe etc. complete including finishing the surface.</p> <p>Approved MR</p>	Internal railing

5	RAILING	Providing and fixing mild steel grill work for windows, ventilators etc. 20 Kilogram/Square Metre as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete. SSR 40.01 / 264	For compound wall
PAVING			
1	STAMP CONCRETE	<p><b>Stamp Concrete of 100mm Thickness</b> - Providing and Laying in-situ M30 Grade unreinforced plain cement stamp concrete of 100mm thickness pavement over a prepared sub base with 43 grade cement, coarse and fine aggregate (natural sand / VSI grade finely washed crushed sand) Confirming to IS 383, as per mixed in a batching and mixing plant / non tilting mixer and weigh batcher as per approved mix design, admixtures, transporting to site in nagpur city with lead upto 20KM (on Inner Ring Road from Avasti nagar to wadi), spreading, laying with approved make pover, compacted and finished in a continous operation, finishing to lines and grades Also Providing, Placing and applying stamp powder which is light fast UV resistant pigment with appropriate chemical compounds of desired colour on base concrete after excess bleed water has evaporated using dry shake method @5kg per sqm. SSR 54.01 / 513</p> <p>Including texturing, and covering with plastic sheet (min 200 micron thickness) and also applying two coats of UV-stable,30 % solidsclear sealer @ 150 to 250 gms per sqm using surface roller and protecting from fallingdust,dirt and curring by curring compound / by providing cement vata in cement Mortor 1:8 @ 0.6m x 0.6m center to center, admeasuring 80mm at bottom and 40mm at top withdepth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-incharge or Landscape architect etc. complete. (prior approval of superintending Engineer will be necessary )</p>	External paving


मिरा भाईंदर महानगरपालिकेच्या सौंदर्यात व सुशोभिकरणात भर पडण्यासाठी वरील प्रस्तावित कलरकोड व बाबींचा समावेश करण्यासाठी प्रशासकीय ठरावाद्वारे मान्यता देणेस शिफारस आहे.


**प्रशासकीय ठराव क्र.५८६ दिनांक २३/ ९ /2024**

वरील प्रस्तावाचे अवलोकन करण्यात आले. महाराष्ट्र महानगरपालिका अधिनियम तरतुदी व विशेषतः कलम 452 (अ) च्या (1अ) व (1ब) नुसार, महाराष्ट्र शासन, नगरविकास विभागाकडील शासन आदेश क्रमांक :- एमसीओ 2020/प्र.क्र.71 (भाग-2)/ नवि-14 दिनांक 26 ऑगस्ट 2022 अन्वये प्राप्त अधिकारानुसार मी,

श्री. संजय काटकर, प्रशासक, मिरा भाईंदर महानगरपालिका मा. महानगरपालिका महासभेच्या अधिकाराचा वापर करून प्रशासनाने सादर केल्यानुसार मिरा भाईंदर महानगरपालिकेच्या सौंदर्यीकरण, सुशोभिकरणात भर पाडण्यासाठी कलरकोड व अंदाजपत्रकातील बाबींचा समावेश वरील प्रस्तावानुसार अंदाजपत्रकात करून त्याची काटेकोर अंमलबजावणी करण्यास या ठरावाव्दारे मान्यता देण्यात येत आहे.

सदर कामाबाबतची पुढील कार्यवाही नियमानुसार संबंधित विभागाने विहित पध्दतीने करावी.

  
(वासुदेव शिरवळेकर)  
नगरसचिव  
मिरा भाईंदर महानगरपालिका

  
(संजय काटकर, भाप्रसे)  
प्रशासक तथा आयुक्त  
मिरा भाईंदर महानगरपालिका

प्रत :- बांधकाम/ विद्युत विभागाकडे योग्य त्या कार्यवाहीसाठी रवाना