

# Bill of Quantities

## ANNEXURE – A

### (Schedule – A )

#### Description of Item

Rate per  
Sq.m for  
each item

Amount  
(Rs.)

Painting to walls with two coats of acrylic emulsion paint weather proof water based, modified acrylic with silicon additives exterior grade having VOC (Volatile Organic Compound) content less than 50 grams / liter / Interior grade having VOC (Volatile Organic Compound) content less than 50 grams / liter of superior quality of approved brand and shade over base coat of cement primer grade -I making three coats in all to give an even shade after thoroughly brushing / scrubbing the surface to remove old paint / lime surface any other adhesives / all loose powdered materials with mechanical devices (optimum pressure) like automatic sandar and mechanical scrubber or manually (where ever mechanical scrubbing not possible) as per technical specification / conditions and including Bio wash / Jet wash / repairs to cracks upto 5mm with acrylic paste / dampness / patches to restore the wall surface apply primer and acrylic emulsion exterior grade / interior grade of the company manufactured as per the given specifications, in two coats. Rates quoted inclusive of all the materials such as paints, paint applying machinery or tools / equipment, Man power and all operational, incidental and labour charges such as scaffolding charges, lift charges, curing etc., complete for finished item of work for Walls in all Floors, man power, supervision and all other allied charges and including all taxes and all or every other requirement in completion of the work shall be met by the SELECTED contract company

Total 3 (three) coats:1. Primary Coat 2. Emulsion paint 2(two coats) Interior / Exterior

**(1) Exterior Emulsion should satisfy following parameters :-**

- i) Dry film thickness for primary coat (Barrier coat) = 70 – 80 Microns
- ii) Dry film thickness for emulsion 2 coats = 50 – 60 Microns
- iii) Sheen levels at 60 degree GH = > 18 as measured in white
- iv) Water resistance = passes > 48 Hrs as per ASTM D870 – 15
- v) Flame spread resistance = Passes as per BS 476 – PART-7 –1997 : Rating Class-I
- vi) Resistance to Alkali= Efflorescence Test (Water Permeability test as per SS-500-2002)  
Durability against colour, flaking, cracking, chalking and weathering = 7 Years warranty on colour & film integrity.
- i) Surface drying type = 30 minutes
- ii) Spread area = 50 – 60 sqft
- iii) Durability against colour, flaking, cracking, chalking and weathering = 7 Years warranty on colour & film integrity.
- iv) Surface drying type = 30 minutes
- v) Spread area = 50 – 60 sqft
- vi) Adhesive capacity = Pull of adhesion > 1.5 Mpa
- vii) Temperature stability = QUVA > 1000 hours
- xi) Dust Repellent = Natural weather exposure for 3 months – No visual difference initially and after cleaning

85.02  
(Rupees  
Eighty  
five and  
two  
paise  
only)

90,12,12,000

1.06  
Crores  
Sq.mts

1 Sqm



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09/06/2020

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Managing Director,  
APEWIDC, Vijayawada

*(Handwritten signature and date: 09/06/2020)*

S. No.	Est. Qty	Unit	Description of Item	Rate per Sqm for each item	Amount (Rs.)																																					
2	1.02 Crores Sq.mts	1 Sqm	<p><b>(2) Interior Emulsion should satisfy following parameters :-</b></p> <p>i) Dry film thickness for primary coat = 15 – 20 Microns            ii) Dry film thickness for emulsion 2 coats = 45 – 50 Microns            iii) Scrub cycles = Minimum 300 cycles as per ASTM D 3450            iv) Washability = Minimum 14000 cycles            v) Sheen levels at 60 degree GH = &lt;5 units            vi) Resistance to Alkali= Passes the test as per IS 15489 - 2004            vii) Durability against colour, flaking, cracking, chalking and weathering = 3 Years warranty on colour &amp; film integrity.            viii) Surface drying type = 30 minutes            ix) Spread area = 120 – 130 sqft per liter            x) Temperature stability = Passes the test as per IS 15489: 2004.</p> <p><b>(3) Doors &amp; Windows with wood primer, enamel (in case of Wooden Doors) :-</b></p> <p>Specification:- Painting to wood work with two coats of ready mixed Synthetic Enamel paints in all shades Grade - I Rates quoted inclusive of all the materials such as paints, paint applying machinery or tools/equipment, Man power and all operational, incidental and labour charges such as scaffolding charges, lift charges, curing etc., complete for finished item of work for Walls in all Floors, man power, supervision and all other allied charges and excluding taxes and all or every other requirement in completion of the work shall be met by the SELECTED contract company</p> <p>Total 3 (three) coats:1. Primary Coat 2. Ready mixed Synthetic Enamel paint 2(two coats) Interior / Exterior</p> <p>Requirements for Enamel, Synthetic, Exterior (a) under coating            (b) Finishing</p> <table border="1"> <thead> <tr> <th rowspan="2">S. No.</th> <th rowspan="2">Characteristics</th> <th colspan="2">Requirements</th> </tr> <tr> <th>Under coating</th> <th>Finishing</th> </tr> </thead> <tbody> <tr> <td>i</td> <td>a) Consistency</td> <td colspan="2">Smooth, uniform and suitable for brushing without appreciable drag on the brush</td> </tr> <tr> <td></td> <td>b) Viscosity by ford cup No.4 at 27 ± 2° C</td> <td>80 - 120 s</td> <td>80 - 120 s</td> </tr> <tr> <td>ii</td> <td>Mass, in kg/10 liters, Min</td> <td>11.5</td> <td>9.0</td> </tr> <tr> <td rowspan="3">iii</td> <td rowspan="3">Drying time, h, Max a) Surface dry b) Hard dry c) Tack free</td> <td>2</td> <td>4</td> </tr> <tr> <td>8</td> <td>12</td> </tr> <tr> <td>24</td> <td>24</td> </tr> <tr> <td rowspan="2">iv</td> <td rowspan="2">a) Finish</td> <td>Smooth and matt to egg shell gloss</td> <td>Smooth and glossy</td> </tr> <tr> <td>b) Gloss 60°</td> <td>0 to 20</td> <td>Above 71</td> </tr> <tr> <td>v</td> <td>Fineness of grind</td> <td>Not more than 50 microns</td> <td>Not more than 15 microns</td> </tr> </tbody> </table>	S. No.	Characteristics	Requirements		Under coating	Finishing	i	a) Consistency	Smooth, uniform and suitable for brushing without appreciable drag on the brush			b) Viscosity by ford cup No.4 at 27 ± 2° C	80 - 120 s	80 - 120 s	ii	Mass, in kg/10 liters, Min	11.5	9.0	iii	Drying time, h, Max a) Surface dry b) Hard dry c) Tack free	2	4	8	12	24	24	iv	a) Finish	Smooth and matt to egg shell gloss	Smooth and glossy	b) Gloss 60°	0 to 20	Above 71	v	Fineness of grind	Not more than 50 microns	Not more than 15 microns	87.03 (Rupees Eighty Seven and Three paise only)	88,77,06,000
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		b) Gloss 60°	0 to 20	Above 71																																						
v	Fineness of grind	Not more than 50 microns	Not more than 15 microns																																							
3	0.072 Crores Sq.mts	1 Sqm	<p>Specification:- Painting to wood work with two coats of ready mixed Synthetic Enamel paints in all shades Grade - I Rates quoted inclusive of all the materials such as paints, paint applying machinery or tools/equipment, Man power and all operational, incidental and labour charges such as scaffolding charges, lift charges, curing etc., complete for finished item of work for Walls in all Floors, man power, supervision and all other allied charges and excluding taxes and all or every other requirement in completion of the work shall be met by the SELECTED contract company</p>	96.02 (Rupees Ninety Six and Two Paise only)	6,91,34,400.00																																					



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Managing Director  
APEWIDC, Vijayawada

Est. Qty	Unit	Description of Item				Rate per Sqm for each item	Amount (Rs.)	
		S. No.	Characteristics	Requirements				
				Under coating	Finishing			
		vi	Colour	Approximate match with ISC No. 385 or 635	Close match to the specified IS colour or to an agreed colour			
		vii	Scratch hardness after 48 h air drying (1000 g)	No such scratch as to show bare metal				
		viii	Flexibility and adhesion	No visible damage or detachment after 48 h of air drying	No visible damage or detachment after 96 h of air drying			
		ix	Flash point	Not below 30°C	Not below 30°C			
		x	Composition:					
			a) Volume solids percent, Min	40	35			
			b) Phthallic anhydride content of non-volatile vehicle, percent by mass, Min	20	20			
		xi	Accelerated storage stability test, at 60 ° C, 96 h	Shall pass the test	Shall pass the test			
		xii	Keeping properties	Not less than one year from date of manufacturing	Not less than one year from date of manufacturing			
		<b>(4) <u>Grills and Gates (iron Doors, Windows, Gates, Grills etc.) with primary coat of Red oxide :-</u></b> <b>Specification :-</b> Painting to Iron work with two coats of ready mixed Synthetic Enamel paints in all shades Grade – I Rates quoted inclusive of all the materials such as paints, paint applying machinery or tools/equipment, Man power and all operational, incidental and labour charges such as scaffolding charges, lift charges, curing etc., complete for finished item of work for Walls in all Floors, man power, supervision and all other allied charges and excluding taxes and all or every other requirement in completion of the work shall be met by the SELECTED contract company Total 3 (three) coats:1. Primary Coat of Red oxide 2. Ready mixed Synthetic Enamel paint 2(two coats) Interior / Exterior Requirements for Enamel, Synthetic, Exterior (a) under coating (b) Finishing						
4	0.081 Crores Sq.mts	1 Sqm				90.01 (Rupees Ninety and One paise only)	7,29,08,100.00	



Managing Director  
 APEWIDC, Vijayawada  
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S. No.	Est. Qty	Unit	Description of Item		Rate per Sqm for each item	Amount (Rs.)
S. No.	Characteristics	Requirements				
		Under coating	Finishin g			
i	a) Consistency	Smooth, uniform and suitable for brushing without appreciable drag on the brush				
	b) Viscosity by ford cup No.4 at 27 ± 2° C	80 - 120 s	80 - 120 s			
ii	Mass, in kg/10 liters, Min	11.5	9.0			
iii	Drying time, h, Max a) Surface dry b) Hard dry c) Tack free	2	4			
		8	12			
		24	24			
iv	a) Finish	Smooth and matt to egg shell gloss	Smooth and glossy			
		b) Gloss 60°	0 to 20	Above 71		
v	Fineness of grind	Not more than 50 microns	Not more than 15 microns			
vi	Colour	Approximate match with ISC No. 385 or 635	Close match to the specified IS colour or to an agreed colour			
vii	Scratch hardness after 48 h air drying (1000 g)	No such scratch as to show bare metal				
viii	Flexibility and adhesion	No visible damage or detachment after 48 h of air drying	No visible damage or detachment after 96 h of air drying			
ix	Flash point	Not below 30°C	Not below 30°C			



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x	Composition:		
	a) Volume solids percent, Min	40	35
	b) Phthallic anhydride content of non-volatile vehicle, percent by mass, Min	20	20
xi	Accelerated storage stability test, at 60 ° C, 96 h	Shall pass the test	Shall pass the test
xii	Keeping properties	Not less than one year from date of manufacturing	Not less than one year from date of manufacturing

S. No.	Est. Qty	Unit	Description of Item	Rate per Sqm for each item	Amount (Rs.)
			<p><b>Specific Requirements</b></p> <ul style="list-style-type: none"> <li>* The product shall contain not more than 5 percent, by mass, volatile organic compounds.</li> <li>* The product shall not contain more than 0.10 percent by mass (as metal), of any toxic metals such as Lead, Cadmium, Chromium (VI) and their compounds.</li> <li>* The product shall not be manufactured from any carcinogenic ingredients.</li> </ul>		
5	90 lakh Sq Meters	1 Sq.M	<p>(5) Wall art coloring to exterior and interior walls to make the school environment favourable to children with arts like animals, birds, trees etc and with themes like environment/science/space etc using Acrylic Emulsion Colours of highest grade using standardised stencils (the art work / designs will be furnished by the authority / department). The surface area of work done will be taken as 40 % of the external wall treated and 50 % for internal walls ( considering 60 % voids for external walls and 50 % voids for internal walls )</p> <p>Include colours, applying machinery or tools / equipment, Man power and all operational, incidental and labour charges such as scaffolding charges, lift charges, curing etc., complete for finished item of work for Walls in all Floors, man power, supervision and all other allied charges and <b>including all taxes</b> and all or every other requirement in completion of the work shall be met by the SELECTED contractor</p>	85.00 (Rupees Eighty Five Only)	76,49,99,620.00
<b>Total</b>			<b>(Rupees Two Hundred Sixty Nine Crores Fifty Nine Lakhs Sixty Thousand One Hundred and Twenty Only)</b>		<b>269,59,60,120.00</b>



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7/6/2022

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